



Janardan Bhagat Shikshan Prasarak Sanstha's

**CHANGU KANA THAKUR
ARTS, COMMERCE & SCIENCE COLLEGE, NEW PANVEL (AUTONOMOUS)**

**Re-accredited 'A+' Grade by NAAC
'College with Potential for Excellence' Status Awarded by UGC
'Best College Award' by University of Mumbai**

Department of Accounting & Finance

Board of Studies in Accounting & Finance

Program: B.Com. Accounting & Finance

Revised Syllabus of F.Y.B.Com. Accounting & Finance

Sem. I & II (As per NEP 2020)

Choice Based Credit & Grading System (60:40)

w.e.f. Academic Year 2023-24

Sr. No.	Heading	Particulars
1	Title of Programme	B.Com. Accounting & Finance
2	Eligibility for Admission	HSC / equivalent examination passed from Higher Secondary Education Board
3	Passing marks	40%
4	Ordinances/Regulations (if any)	---
5	No. of Semesters	Six
6	Level	U.G.
7	Pattern	Semester (60:40)
8	Status	Revised
9	To be implemented from Academic year	2023-2024

Choice Based Credit Grading and Semester System (CBCGS)

F.Y.B. Com. Accounting & Finance Syllabus

Programme - B.Com. Accounting and Finance

Preamble

The B. Com. Accounting and Finance programme is started with an aim to produce ethical accounting graduates who have the academic and professional base of knowledge to meet the challenges posed by a dynamic global business environment through our teaching, service and research.

The main objectives of the Program are:

- To inculcate practical approach amongst the learners by using innovative technology in the field of Accounting and Finance.
- To enable learners to be an active instrument in changing business environment in global scenario.
- To produce quality graduates who can apply fundamental and specialist knowledge to critically evaluate business and management issues and provides solutions.
- To prepare the learners to be a true nation builder through the world of Accounting and Finance.
- To equip the learners with fundamental accounting skills and principles necessary for the preparation of books of accounts and financial statements.
- To equip the learners with theoretical and practical skills in ICT to enable them compete favourably in today's knowledge economy.
- To equip learners with communication skills required to effectively run and manage business office.
- To give learners the knowledge that will sharpen their understanding of the systems of Accounting and Finance.
- To describe the scope of financial management as a function of firm, to enable Students understand the decision-making process in key financial management areas.

Programme Outcomes

PO1-Disciplinary knowledge: Capable to demonstrate comprehensive knowledge of Accountancy, Commerce and Management.

PO2-Communication Skills: Develop ability to express thoughts and ideas effectively in writing and oral related to business Communication.

PO3-Critical thinking: Ability to recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.

PO4-Problem solving: Ability to think rationally, analyse situations and solve problems adequately.

PO5- Research-related skills: Able to create a sense of inquiry and capability for asking relevant and appropriate questions related to Accountancy, Commerce and Management.

PO6- Cooperation/Team work: To work effectively and respectfully in different groups in the society and able to facilitate cooperative efforts as a member of a team.

PO7- Scientific reasoning: Ability to critically analyse, interpret data and draw conclusions with open mind in the field of Accountancy, Commerce and Management.

PO8-Information/digital literacy: Ability to use ICT effectively to access, evaluate and analysis of data in the field of accountancy, commerce and management.

PO9-Self-directed learning: Create ability to work independently for a project and manage a project through to completion in the field of accountancy, commerce and management.

PO10- Multicultural competence: Able to demonstrate commerce, management values and beliefs to the multiple cultural and global groups.

PO11- Social Interaction: Ability to elicit views of others, mediate disagreements and help reach conclusions in group setting.

Programme Specific Outcomes

Name of the Programme: B. Com. Accounting and Finance	Programme Coordinator: Dr. N. E. Koli	Head of the Department: Dr. N. E. Koli
	After completing the Programme in B. Com. Accounting and Finance, Student will able to:	
PSO1	Acquire conceptual, fundamental and application-based knowledge in accountancy, auditing, finance, taxation, law, economics, commerce, communication, research and information technology.	
PSO2	Apply communication skills, soft skills, group discussion skills and presentation skills for drafting, data processing and presentation with the help of office productivity tools and effective communication techniques.	
PSO3	Prepare, analyse, Evaluate and interpret financial statements and analysing auditing techniques by applying critical thinking skills, analytical skills and problem-solving skills.	
PSO4	Develop, estimate and forecast cost of product, budget, tax liability and financial structure of the various forms of organisation and design research	

Choice Based Credit Grading and Semester System (CBCGS)**F.Y.B.Com. Accounting & Finance Semester – I & II Syllabus****To be implemented from the Academic year 2023-2024*****Course Structure***

No. of Courses	Semester I	Credits	No. of Courses	Semester II	Credits
1	<i>Discipline Specific Course (Major)</i>		1	<i>Discipline Specific Course (Major)</i>	
1	Financial Accounting - I	03	1	Financial Accounting - II	03
2	Cost and Management Accounting - I	03	2	Financial Management - I	03
			2	<i>Discipline Specific Course (Minor)</i>	
			3	Commerce	02
2	<i>Open Elective</i>		3	<i>Open Elective</i>	
3, 4	Any two course from the following list of the Open Elective course	04	4,5	Any two course from the following list of the Open Elective course	04
3	<i>Vocational and Skill Enhancement Course (Major/Minor)</i>		4	<i>Vocational and Skill Enhancement Course (Major/Minor)</i>	
3a	<i>Vocational Skill Courses</i>		4a	<i>Vocational Skill Courses</i>	
5	Business Mathematics	02	6	Business Statistics	02
3b	<i>Skill Enhancement Course</i>		4b	<i>Skill Enhancement Course</i>	
6	Any one course from the following list of the Skill Development Course	02	7	Any one course from the following list of the Skill Development Course	02
4	<i>Ability Enhancement Courses, Indian Knowledge System and Value Education Courses</i>		5	<i>Ability Enhancement Courses, Indian Knowledge System and Value Education Courses</i>	
4a	<i>Ability Enhancement Courses</i>		5a	<i>Ability Enhancement Courses</i>	
7	Communication Skill - English - I	02	8	Communication Skill - English - II	02

F.Y.B.Com. A& F Sem. I & II Syllabus

4b	Value Education Course		5b	Value Education Course	
8	Any one course from the following list of the Value Education Course	02	9	Any one course from the following list of the Value Education Course	02
4c	Indian Knowledge System (Major/Minor)			--	
9	History of Economic thoughts of India	02		--	
5	<i>Field Projects/ Internship/ Apprenticeship/ Community Engagement and Service corresponding to the Major (Core) Subject, Co-curricular Courses and Research Project</i>		6	<i>Field Projects/ Internship/ Apprenticeship/ Community Engagement and Service corresponding to the Major (Core) Subject, Co-curricular Courses and Research Project</i>	
5a	Co-curricular Course		6a	Co-curricular Course	
10	Any one course from the following list of the Co-curricular Course	02	10	Any one course from the following list of the Co-curricular Course	02
Total Credits		22	Total Credits		22

List of Open Elective Course

<i>List of Open Elective Courses Sem. I</i>		<i>List of Open Elective Courses Sem. II</i>	
01	Introduction to Fishery management	01	Ornamental fish Breeding
02	Basics of Electricity for wiring	02	Solar Energy – Fundamentals & Its Application
03	Human Health and Nutrition	03	Organic Farming
04	Agro Tourism	04	Bio-entrepreneurship
05	Cyber Security	05	Web Designing
06	Introduction to Python Programming	06	Introduction to R Programming
07	Introduction to Photoshop	07	Privacy & Security in online social media
08	Multimedia Applications	08	Introduction to Game Designing and Cartoon Animation
<i>Note: Course selected in Semester I will continue in Semester II</i>			

List of Skill Development Course

List of Skill Development Courses Sem. I		List of Skill Development Courses Sem. II	
01	Computer Application in Business	01	Data Analytics with MS- Excel and SPSS
02	Communication Skills in French - I	02	Communication Skills in French – II
03	Communication Skills in German - I	03	Communication Skills in German – II
Note: Course selected in Semester I will continue in Semester II			

List of Value Education Course

List of Value Education Courses Sem. I		List of Value Education Courses Sem. II	
01	Understanding India - I	01	Understanding India – II
02	Digital & Technological Solution – I	02	Digital & Technological Solution – II
03	Environmental Studies - I	03	Environmental Studies - II
Note: Course selected in Semester I will continue in Semester II			

List of Co-curricular Course

List of Co-curricular Courses Sem. I		List of Co-curricular Courses Sem. II	
01	Foundation Course in National Service Scheme (NSS) – I	01	Foundation Course in National Service Scheme (NSS) – II
02	Foundation Course in National Cadet Corps (NCC) – I	02	Foundation Course in National Cadet Corps (NCC) – II
03	Foundation Course in Physical Education (PE) – I	03	Foundation Course in Physical Education (PE) – II
04	Foundation Course in Performing Arts (PA) – I	04	Foundation Course in Performing Arts (PA) – II
Note: Course selected in Semester I will continue in Semester II			

Choice Based Credit Grading and Semester System (CBCGS)**F.Y.B.Com. Accounting & Finance Semester – I Syllabus****(As per NEP 2020)****To be implemented from the Academic year 2023-2024****Semester I**

No. of Courses	Semester I	Credits
1	<i>Discipline Specific Course (Major)</i>	
1	Financial Accounting - I	03
2	Cost and Management Accounting - I	03
2	<i>Open Elective (Any two from the OE List)</i>	
3, 4	Any two course from the following list of the Open Elective courses	04
3	<i>Vocational and Skill Enhancement Course (Major/Minor)</i>	
3a	<i>Vocational Skill Courses</i>	
5	Business Mathematics	02
3b	<i>Skill Enhancement Courses</i>	
6	Any one course from the following list of the Skill Development Course	02
4	<i>Ability Enhancement Courses, Indian Knowledge System and Value Education Courses</i>	
4a	<i>Ability Enhancement Courses</i>	
7	Communication Skill - English - I	02
4b	<i>Value Education Courses</i>	
8	Any one course from the following list of the Value Education Course	02
4c	<i>Indian Knowledge System (Major/Minor)</i>	
9	History of Economic thoughts of India	02
5	<i>Field Projects/ Internship/ Apprenticeship/ Community Engagement and Service corresponding to the Major (Core) Subject, Co-curricular Courses and Research Project</i>	
5a	<i>Co-Curricular Courses</i>	
10	Any one course from the following list of the Co-Curricular Courses	02
Total Credits		22

Choice Based Credit Grading and Semester System (CBCGS)**F.Y.B.Com. Accounting & Finance Semester – I Syllabus****(As per NEP 2020)****To be implemented from the Academic year 2023-2024****Semester I**

Sr. No.	Course Code	Course Title	Credits	L / Week
1	UAF1FA1	Financial Accounting- I	3	
2	UAF1CA1	Cost & Management Accounting - I	3	
	Any two course from the following list of the Open Elective Course			
3, 4	UOE1IFM	a) Introduction of Fishery management	4	
	UOE1FEW	b) Fundamentals of Electricity & Wiring		
	UOE1HWN	c) Human Health and Nutrition		
	UOE1AGT	d) Agro Tourism		
	UOE1IRP	e) Introduction to R Programming		
	UOE1IPT	f) Introduction to Photoshop		
	UOE1OSM	h) Multimedia Applications		
	Any one course from the following list of the Skill Development Course			
5	UAF1CAB	Computer Application in Business	2	
	UAF1CSF	Communication Skills in French - I		
	UAF1CSG	Communication Skills in German - I		
6	UAF1BMT	Business Mathematics	2	
7	UAEC1CSE	Communication Skill - English - I	2	
	Any one course from the following list of the Value Education Course			
8	UVEC1UI	Understanding India - I	2	
	UVEC1DT	Digital & Technological Solution – I		
	UVEC1ES	Environmental Studies - I		
9	UAF1ETI	History of Economic thoughts of India	2	
	Any one course from the following list of the Co-Curricular courses			
10	UCC1NSS	a) Foundation Course in NSS – I	2	
	UCC1NCC	b) Foundation Course in NCC – I		
	UCC1PED	c) Foundation Course in Physical Education – I		
	UCC1PAR	d) Foundation Course in Performing Arts – I		
		Total	22	

Choice Based Credit Grading and Semester System (CBCGS)**F.Y.B.Com. Accounting & Finance Semester – I Syllabus****(As per NEP 2020)****To be implemented from the Academic year 2023-2024****Discipline Specific Course (Major)****1. Financial Accounting - I**

1	Preamble of the syllabus
	B.Com. Accounting & Finance is a under graduate programme of Department of Accounting & Finance, Changu Kana Thakur Arts, Commerce & Science College, New Panvel (Autonomous) affiliated to University of Mumbai (MH). The Choice Based Credit, Grading and Semester System to be implemented through this curriculum, would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. The learners pursuing this programme would have to develop understanding of various aspects of the Financial Accounting. It helps to acquire knowledge regarding accounting standards and its applicability, prepare store ledger, financial statements of manufacturing concern and allocate common expenditure of organization among various department. The performance of the learners shall be evaluated into two components i.e. internal examination and external examination. The learner's Performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.

2	Objectives of the course
▯	To acquire knowledge regarding accounting standards and Indian Accounting Standards and its applicability
▯	To Prepare Store Ledger Account and Compute value of inventories as per AS 2
▯	To prepare financial statements of manufacturing concern with closing entries
▯	To allocate common expenditure of the organization among various department on appropriate basis
▯	To Prepare hire purchase account and calculate interest on hire purchase transaction

3	Course Outcomes	Bloom Taxonomy
	The students will be able to:	
▯	Describe various concept of accounting standard and Indian Accounting Standards	Understand
▯	Solve practical problems regarding inventory valuation by FIFO and weighted average method.	Apply
▯	prepare the final account of manufacturing concern.	Apply
▯	Calculate the various ratios and prepare the Departmental Final account.	Apply

¶	Estimate hire purchase price and calculate interest on hire purchase transactions.	Evaluate
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4. Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Accounting Standards and Indian Accounting Standards	04
2	AS 2: Valuation of Inventories	09
3	Final Accounts of Manufacturing Concern	12
4	Departmental Accounts	10
5	Accounting for Hire Purchase	10
Total		45

5. Detailed Syllabus

Sr. No.	Modules / Units	No. of Lectures
1	Introduction to Accounting Standards and Indian Accounting Standards	04
	<ul style="list-style-type: none"> • Accounting Standards: Concepts, Benefits, Procedures for Issue of Accounting Standards Various AS, GAAP, Applicability of Accounting Standards, AS List • Indian Accounting Standards: Concepts, Benefits, Applicability of Indian Accounting Standards, Indian Accounting Standard List 	
2	AS 2: Valuation of Inventories	09
	<ul style="list-style-type: none"> • Meaning, Definition, Applicability Measurement of Inventory Disclosure in Final Account Explanation with Illustrations • Cost for Inventory Valuation • Inventory Systems: Periodic Inventory System and Perpetual Inventory System • Valuation: Meaning and Importance • Methods of Stock Valuation as per AS – 2: • FIFO and Weighted Average Method • Computation of Valuation of Inventory as on Balance Sheet Date: If Inventory is taken on a Date After the Balance Sheet or Before the Balance Sheet 	
3	Final Accounts of Manufacturing Concern	12
	<ul style="list-style-type: none"> • Expenditure a) Capital (b) Revenue • Receipts a) Capital (b) Revenue • Adjustments and Closing Entries • Final Accounts of Manufacturing Concerns (Proprietary Firm) 	
4	Departmental Accounts	10
	<ul style="list-style-type: none"> • Meaning, Basis of Allocation of Expenses and Incomes / Receipts • Inter Departmental Transfer: At Cost Price and Invoice Price, Stock Reserve • Departmental Trading and Profit and Loss Account and Balance Sheet 	
5	Accounting for Hire Purchase	10
	<ul style="list-style-type: none"> • Meaning, Calculation of Interest • Difference between Hire Purchase agreement and instalment payment agreement • Accounting for Hire Purchase Transactions by Asset Purchase Method Based on Full Cash Price, Calculation of Cash Price • Journal Entries, Ledger Accounts and Disclosure in Balance Sheet for Hirer and Vendor • Calculate and record the value of reposed goods and profit on resale of such goods 	

6. References Books

Financial Accounting - I

- *Introduction to intro* by T.S. Grewal, S. Chand and Company (P) Ltd., New Delhi
- *Advance Accounts* by Shukla and Grewal, S. Chand and Company (P) Ltd., New Delhi
- *Advanced Accountancy* by R.L Gupta and M. Radhaswamy, S. Chand and Company (P) Ltd., New Delhi
- *Modern Accountancy* by Mukherjee and Hanif, Tata Mc. Grow Hill and Co. Ltd., Mumbai
- *Financial Accounting* by Lesile Chandwichk, Pentice Hall of India Adin Bakley (P) Ltd., New Delhi
- *Financial Accounting for Management* by Dr. Dinesh Harsalekar, Multi-Tech. Publishing Co. Ltd., Mumbai
- *Financial Accounting* by P.C. Tulsian, Pearson Publications, New Delhi
- *Accounting Principles* by R.N. Anthony and J.S. Reece, Richard Irwin, Inc
- *Financial Accounting* by Monga, J.R. Ahuja, Girish Ahuja and Ashok Shehgal, Mayur Paper Back, Noida
- *Compendium of Statement and Standard of Accounting*, ICAI
- *Indian Accounting Standards*, Ashish Bhattacharya, Tata Mc. Grow Hill and Co. Ltd., Mumbai
- *Financial Accounting* by Williams, Tata Mc. Grow Hill and Co. Ltd., Mumbai
- *Company Accounting Standards* by Shrinivasan Anand, Taxman, New Delhi
- *Financial Accounting* by V. Rajasekaran, Pearson Publications, New Delhi
- *Introduction to Financial Accounting* by Horngren, Pearson Publications, New Delhi
- *Financial Accounting* by M. Mukherjee and M. Hanif, Tata McGraw Hill Education Pvt. Ltd., New Delhi
- *Financial Accounting a Managerial Perspective*, Varadraj B. Bapat, Mehul Raithatha, Tata McGraw Hill Education Pvt. Ltd., New Delhi

Choice Based Credit Grading and Semester System (CBCGS)**F.Y.B.Com. Accounting & Finance Semester – I Syllabus****(As per NEP 2020)****To be implemented from the Academic year 2023-2024****Discipline Specific Course (Major)****2. Cost & Management Accounting – I**

1	Preamble of the syllabus
	B.Com. Accounting & Finance is a under graduate programme of Department of Accounting & Finance, Changu Kana Thakur Arts, Commerce & Science College, New Panvel, (Autonomous) affiliated to University of Mumbai (MH). The Choice Based Credit, Grading and Semester System to be implemented through this curriculum, would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. The learners pursuing this programme would have to develop understanding of various aspects of the Cost and Management Accounting. It helps to explain the basic terms of Cost Accounting, also to define in detail concept of overheads. The performance of the learners shall be evaluated into two components i.e., internal examination and external examination. The learner's Performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.

2	Objectives of the course
□	To discuss the meaning, evaluation, objectives, Scope, Features of Cost Accounting and Classification of Cost and Prepare Cost Sheet.
□	To understand the Inventory Management Technique, ABC analysis, and Stock Levels of Material.
□	To describe difference between Employees cost and Direct expenses.
□	To discuss Methods of allocation, apportionment and absorption of overheads and Accounting and control of overheads and production overhead, administrative overhead and selling & distribution overhead.

3	Course Outcomes	Bloom Taxonomy
	The students will be able to	
□	Explain meaning, objectives and scope, features of Cost & Management Accounting and Classify Cost into different component of Cost and prepare Cost Sheet	Understand
□	Define the material procurement procedure, and calculate inventory stock level and prepare stock ledger.	Remember
□	Calculate employees cost and ascertain direct expenses of various items.	Apply
□	Calculate of Various overhead rates.	Apply

4. Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Cost Accounting and Cost Sheet	15
2	Material Cost	10
3	Employee Cost and Direct Expense	10
4	Overheads	10
Total		45

5. Detailed Syllabus

Sr. No.	Modules / Units	No. of Lectures
1	Introduction to Cost Accounting and Cost Sheet	15
	<ul style="list-style-type: none"> • Evolution; Objectives, Scope, Importance and Advantages of Cost Accounting • Difference between Cost Accounting and Financial Accounting • Limitations of Financial Accounting • Definitions: Cost, Costing and Cost Accounting • Cost Allocation and Apportionment; Coding System, Essentials of Good Costing System • CAS: Introduction to CAS, Objective and Functions of CASB, Overview of Cost Accounting Standards, CAS – 1 Cost Accounting Standard on “CLASSIFICATION OF COST” • Classification of costs, Cost of Sales, Cost Centre, Cost Unit, Profit Centre and Investment Centre • Cost Sheet, Total Costs and Unit Costs, Different Costs for different purpose Problems on the preparation of cost sheet & Estimated Cost sheet • CAS 11 Administrative O/H • CAS 15 Selling & Dis. O/H 	
2	Material Cost	10
	<ul style="list-style-type: none"> • Material Cost: The Concept; Material Control Procedure • CAS 6 -Material Cost • Inventory Management Technique: VED analysis, FSN analysis, SDE analysis • Stock Levels, ABC analysis, Inventory Turnover Ratio, Stock Ledger-FIFO Method & Weighted Average Method, Bin Card • Economic Order Quantity (EOQ) • Material Documentation 	
3	Employee Cost and Direct Expense	10
	<ul style="list-style-type: none"> • Meaning and importance of employee cost, attendance and payroll procedure • Meaning and treatment of Idle time and Overtime Cost • Computation of Employee Turnover, • Various methods of remuneration, Incentive system (Wages, Bonus, etc.) • Absorption of wages, Efficiency rating procedure • Direct Expenses; Measurement & Treatment of Direct Expenses • CAS 7 Employee Cost • CAS 10 Direct Expenses 	
4	Overheads	10
	<ul style="list-style-type: none"> • Concept of overheads –Production OH, Administrative OH and Selling & Distribution OH • Methods of allocation, apportionment and absorption of overheads • Treatment of under-absorption and over-absorption of overheads • Accounting and control of overheads • Various methods to calculate overhead rate 	

6. References Books

Cost & Management Accounting – I

- *Lectures on Costing by Swaminathan: S. Chand and Company (P) Ltd., New Delhi*
- *Cost Accounting by C.S. Rayudu, Tata Mc. Grow Hill and Co. Ltd., Mumbai*
- *Cost Accounting by Jawahar Lal and Seema Srivastava, Tata Mc. Grow Hill and Co. Ltd., Mumbai*
- *Cost Accounting by Ravi M. Kishore, Taxmann Ltd., New Delhi*
- *Principles and Practices of Cost Accounting by N.K. Prasad, Book Syndicate Pvt. Ltd., Calcutta*
- *Cost Accounting Theory and Practice by B.K. Bhar, Tata Mc. Grow Hill and Co. Ltd., Mumbai*
- *Cost Accounting Principles and Practice by M.N. Arora, Vikas Publishing House Pvt. Ltd., New Delhi*
- *Advanced Cost and Management Accounting: Problems and Solutions by V.K. Saxena and C.D. Vashist, S. Chand and Company (P) Ltd., New Delhi*
- *Cost Accounting by S.P. Jain and K.L. Narang, Kalyani Publishers, Ludhiana*
- *Modern Cost and Management Accounting by M. Hanif, Tata McGraw Hill Education Pvt. Ltd., New Delhi*

Choice Based Credit Grading and Semester System (CBCGS)

F.Y.B.Com. Accounting & Finance Semester – I Syllabus

(As per NEP 2020)

To be implemented from the Academic year 2023-2024

3b. Skill Enhancement Course

Computer Application in Business

1	Preamble of the syllabus
	B.Com. in Accounting & Finance is an under-graduation course of Department of B.Com. (Accounting & Finance), Changu Kana Thakur Arts, Commerce & Science College, New Panvel. Affiliated to University of Mumbai (MH). The course is designed to guide students of B. Com accounting and finance with the knowledge of Computer Application in Business. It helps to understand the basics of computer & networking system, office productivity tools for drafting, data processing and presentation, Create Email IDs and make use of various web browsers and search engines. The performance of the learners shall be evaluated into two components i.e., internal and external. The learner's performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.

2	Objectives of the syllabus
□	To understand the basics of computer & networking system
□	To understand the knowledge of office productivity tools for drafting, data processing and presentation
□	To Create Email IDs and make use of various web browsers and search engines.

3	Course Outcome	Bloom Taxonomy
	The students will be able to:	
□	Describe history and parts of computers and demonstrate the knowledge of hardware, software and networks.	Remember
□	Apply and demonstrate the knowledge of office productivity tools for drafting, data processing and presentation	Apply
□	Create Email IDs and make use of various web browsers and search engines.	Create

4. Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Computers	05
2	Office Productivity Tools	20
3	Introduction to Internet and Web	05
Total		30

5. Detailed Syllabus

Sr. No.	Modules / Units	No. of Lectures
1	Introduction to Computers	05
	<ul style="list-style-type: none"> • Hardware: Specifications and Data Storage Management • Software: Concept of System Software and Applications • Networking: Introduction and types of network topologies 	
2	Office Productivity Tools	20
	<ul style="list-style-type: none"> • Word Processor: Creating, Editing, Formatting and Printing of Documents, Using Tools, Mail-merge and Print Review and Set-up • Spreadsheet: Creating Worksheet, Creating Various Formulae, Creating Charts, Rename and Copy of Worksheets, Using Tools, Printing Review and Set-up • Basic Functions in Spreadsheet – SUM, AVERAGE, MIN & MAX, MEDIAN, COUNT, ABS, SQRT, MOD, INT, ROUND, ROUNDDOWN, ROUNDDOWN • Database: Creating a Simple Database and Tables, Table creation using design view, table wizard, data sheet view, import table, link table, Forms- Form Wizard design view, columnar, tabular, datasheet, chart wizard. Use of reference • Presentation: Create Project Report, Create Slides, create and edit tables in slides Animation, Page Designing, Insert Image, View Page, Print Review and Set-up • Conversion of Files: JPEG, JPG, PDF, PNG, BMP, GIF, alteration of file size 	
3	Introduction to Internet and Web	05
	<ul style="list-style-type: none"> • Internet components: electronic commerce, e-commerce applications, Electronic Data Exchange, Extranet, Payment systems, Risks and security considerations, Legal issues • Web Browser - Use of Various Web Browser, Information Searching Tools Downloading, Create New email ID, Sending Data through email Search engine optimisation 	

6. References Books

	Computer Application in Business
	<ul style="list-style-type: none">• <i>Fundamentals of Computers – Rajaram V – Prentice Hall</i>• <i>Computer today (3rd edition) – Sanders, Donald H – McGraw Hill</i>• <i>Computers and Common sense – Hunt, Roger and Shelly John – Prentice Hall</i>• <i>Computers – Subramaniam N – Wheeler</i>• <i>Introduction to Computers – Xavier C. – New Age</i>• <i>Computer in Business – Sanders D – McGraw Hill</i>• <i>Computers and Information Management – S C Bhatnagar & V Ramant – Prentice Hall</i>• <i>Internet for Business – Brummer, Lavrej – Cambridge</i>• <i>E-mail for Everyone – Leon Alexis & leon – Methews Basic Computer Programmes for Business – Sternberg C – New Jersey Hayden</i>

Choice Based Credit Grading and Semester System (CBCGS)**F.Y.B.Com. Accounting & Finance Semester – II Syllabus****(As per NEP 2020)****To be implemented from the Academic year 2023-2024****Semester II**

No. of Courses	Semester II	Credits
1	<i>Discipline Specific Course (Major)</i>	
1	Financial Accounting - II	03
2	Financial Management – I	03
2	<i>Discipline Specific Course (Minor)</i>	
3	Commerce	02
3	<i>Open Elective (Any two from the OE List)</i>	
4, 5	Any two course from the following list of the Open Elective courses	04
4	<i>Vocational and Skill Enhancement Course (Major/Minor)</i>	
4a	<i>Vocational Skill Courses</i>	
6	Business Statistics	02
4b	<i>Skill Enhancement Course</i>	
7	Any one course from the following list of the Skill Enhancement course	02
5	<i>Ability Enhancement Courses, Indian Knowledge System and Value Education Courses</i>	
5a	<i>Ability Enhancement Courses</i>	
8	Communication Skill - English - II	02
5b	<i>Value Education Course</i>	
9	Any one course from the following list of the Value Education Course	02
6	<i>Field Projects/ Internship/ Apprenticeship/ Community Engagement and Service corresponding to the Major (Core) Subject, Co-curricular Courses and Research Project</i>	
6a	<i>Co-Curricular Courses</i>	
10	Any one course from the following list of the Co-Curricular Courses	02
Total Credits		22

Choice Based Credit Grading and Semester System (CBCGS)**F.Y.B.Com. Accounting & Finance Semester – II Syllabus****(As per NEP 2020)****To be implemented from the Academic year 2023-2024****Semester II**

Sr. No.	Course Code	Course Title	Credits	L / Week
1	UAF2FA2	Financial Accounting- II	3	
2	UAF2FM1	Financial Management - I	3	
3	UAF2COM	Commerce	2	
	Any two course from the following list of the Open Elective Course			
4, 5	UOE2OFB	a) Ornamental fish Breeding	4	
	UOE2ESA	b) Electric & Solar Appliances		
	UOE2OFR	c) Organic Farming		
	UOE2BEN	d) Bio-entrepreneurship		
	UOE2CBS	e) Cyber Security		
	UOE2MAP	f) Multimedia Applications		
	UOE2GCA	g) Introduction to Game Designing and Cartoon Animation		
	Any one course from the following list of the Skill Development Course			
5	UAF2DTA	Data Analytics with MS- Excel and SPSS	2	
	UAF2CSF	Communication Skills in French – II		
	UAF2CSG	Communication Skills in German - II		
6	UAF2BST	Business Statistics	2	
7	UAEC2CSE	Communication Skill - English - I	2	
	Any one course from the following list of the Value Education Course			
8	UVEC2UI	Understanding India – II	2	
	UVEC2DT	Digital & Technological Solution – II		
	UVEC2ES	Environmental Studies - II		
	Any one course from the following list of the Co-Curricular courses			
10	UCC2NSS	a) Foundation Course in NSS – II	2	
	UCC2NCC	b) Foundation Course in NCC – II		
	UCC2PED	c) Foundation Course in Physical Education – II		
	UCC2PAR	d) Foundation Course in Performing Arts – II		
		Total	22	

Choice Based Credit Grading and Semester System (CBCGS)
F.Y.B.Com. Accounting & Finance Semester – II Syllabus
(As per NEP 2020)

To be implemented from the Academic year 2023-2024

Discipline Specific Course (Major)

1. Financial Accounting – II

1	Preamble of the syllabus
	B.Com. Accounting & Finance is a under graduate programme of Department of Accounting & Finance, Changu Kana Thakur Arts, Commerce & Science College, New Panvel, (Autonomous) affiliated to University of Mumbai (MH). The Choice Based Credit, Grading and Semester System to be implemented through this curriculum, would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. The learners pursuing this programme would have to develop understanding of various aspects of the Financial Accounting. It helps to exercise final Accounts from incomplete records, ascertainment of missing values by preparing various subsidiary accounts, also to understand and practice various techniques of consignment account, understand various techniques of computing claim loss and loss of profit and accounting for foreign exchange transaction. The performance of the learners shall be evaluated into two components i.e. internal examination and external examination. The learner's Performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.

2	Objectives of the course
□	To exercise final Accounts from incomplete records, ascertainment of missing values by preparing various subsidiary accounts
□	To understand and practice various techniques of consignment account
□	To understand techniques of computing claim loss and loss of profit
□	To understand the conversion of foreign currency into reporting currency

3	Course Outcomes	Bloom Taxonomy
	The students will be able to	
□	Describe difference in between single-entry system and double entry system and to prepare final accounts from incomplete records.	Understand
□	Demonstrate transactions between principal and agent and able to apply consignment accounting.	Apply
□	Discuss basic principles of insurance and able to calculate fire insurance claim regarding goods lost by fire.	Evaluate
□	Demonstrate accounting for foreign exchange transaction under AS-11	Apply

4. Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Accounting from Incomplete Records	15
2	Consignment Accounts	08
3	AS-11 Accounting for Foreign Exchange Transaction	10
4	Fire Insurance Claims	12
Total		45

5. Detailed syllabus

Sr. No.	Modules / Units	No. of Lectures
1	Accounting from Incomplete Records	15
	<ul style="list-style-type: none"> • Introduction • Problems on Preparation of Final Accounts of Proprietary Trading Concern (Conversion Method) 	
2	Consignment Accounts	08
	<ul style="list-style-type: none"> • Accounting for Consignment Transactions • Calculation of commission • Valuation of Stock • Invoicing of Goods at Higher Price • Calculate of normal / Abnormal Losses 	
3	AS-11 Accounting for Foreign Exchange Transaction	10
	<ul style="list-style-type: none"> • Introduction • In relation to purchase and sale of goods, services, receipts, payments, assets loan and credit transactions. • Computation and treatment of exchange rate differences 	
4	Fire Insurance Claims	12
	<ul style="list-style-type: none"> • Introduction, claim for loss of stock, claim for loss of profit, Standing charges, increased cost of working • Computation of amount of claim for loss of stock and loss of profit. • Ascertainment of Claim as per the Insurance Policy 	

6. Reference Books

Financial Accounting - Paper II

- *Introduction to Accountancy* by T.S. Grewal, S. Chand and Company (P) Ltd., New Delhi
- *Advance Accounts* by Shukla and Grewal, S. Chand and Company (P) Ltd., New Delhi
- *Advanced Accountancy* by R.L Gupta and M. Radhaswamy, S. Chand and Company (P) Ltd., New Delhi
- *Modern Accountancy* by Mukherjee and Hanif, Tata Mc. Grow Hill and Co. Ltd., Mumbai
- *Financial Accounting* by Lesile Chandwichk, Pentice Hall of India Adin Bakley (P) Ltd., New Delhi
- *Financial Accounting for Management* by Dr. Dinesh Harsalekar, Multi-Tech. Publishing Co. Ltd., Mumbai
- *Financial Accounting* by P.C. Tulsian, Pearson Publications, New Delhi
- *Accounting Principles* by R.N. Anthony and J.S. Reece, Richard Irwin, Inc
- *Financial Accounting* by Monga, J.R. Ahuja, Girish Ahuja and Ashok Shehgal, Mayur Paper Back, Noida
- *Financial Accounting* by Williams, Tata Mc. Grow Hill and Co. Ltd., Mumbai
- *Financial Accounting* by V. Rajasekaran, Pearson Publications, New Delhi
- *Introduction to Financial Accounting* by Horngren, Pearson Publications, New Delhi
- *Financial Accounting* by M. Mukherjee and M. Hanif, Tata McGraw Hill Education Pvt. Ltd., New Delhi
- *Financial Accounting a Managerial Perspective*, Varadraj B. Bapat, Mehul Raithatha, Tata McGraw Hill Education Pvt. Ltd., New Delhi

Choice Based Credit Grading and Semester System (CBCGS)**F.Y.B.Com. Accounting & Finance Semester – II Syllabus****(As per NEP 2020)****To be implemented from the Academic year 2023-2024*****Discipline Specific Course (Major)*****2. Financial Management - I**

1	Preamble of the syllabus
	B.Com. Accounting & Finance is a under graduate programme of Department of Accounting & Finance, Changu Kana Thakur Arts, Commerce & Science College, New Panvel, (Autonomous) affiliated to University of Mumbai (MH). The Choice Based Credit, Grading and Semester System to be implemented through this curriculum, would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. The learners pursuing this programme would have to develop understanding of various aspects of the Financial Management. It helps to explain the various aspects of Financial Management and describe the types of financing, also to calculate time value of money and to know the concepts in valuation. The performance of the learners shall be evaluated into two components i.e., internal examination and external examination. The learner's Performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.

2	Objectives of the course
□	To explain the various aspects of Financial Management and describe the types of financing
□	To calculate time value of money and to know the concepts in valuation
□	To explain how operating leverage contributes to a firm's business risk and apply financial leverage to form long term financial policies for business
□	To define and measure the cost of capital and calculate WACC
□	To understand about the capital structure theories

3	Course Outcomes
	The students will be able to
□	Explain the various aspects of Financial Management and to describe the sources of financing
□	Apply the techniques of valuation and calculate time value of money
□	Explain how financial leverage affects on expected ROE, expected EPS and risk borne by the stockholders and to describe how operating leverage contributes to a firm's business risk
□	Measure the cost of individual components of capital and to calculate WACC
□	Explain the various capital structure theories and to demonstrate the dividend decision models

4. Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Financial Management and Types of Finance	07
2	Time Value of Money	08
3	Leverage	10
4	Cost of Capital	10
5	Capital Structure Decisions and Dividend Decisions	10
Total		45

5. Detailed syllabus

Sr. No.	Modules / Units	No. of Lectures
1	Introduction to Financial Management and Types of Finance	07
	Introduction to Financial Management <ul style="list-style-type: none"> • Introduction, Meaning, Importance • Scope and Objectives of financial management, Role & Function of finance executives, • Profit maximisation, wealth maximisation and Value Maximization • financial distress and insolvency, • Agency cost & its mitigation • Agency Problem & Agency cost Types of Finance <ul style="list-style-type: none"> • Introduction • Needs of Finance and Sources: Long Term, Medium Term, Short Term • Long Term Sources of Finance – Equity Share Capital, Preference share Capital, Retained Earning, Debenture, Loan from Financial Institution. • Short Term Sources of Finance - Short Term Loan, Overdraft, Cash Credit, Bills Purchased/ Discounted 	
2	Time Value of Money	06
	<ul style="list-style-type: none"> • The Time Value of Money, Present Value, Internal Rate of Return • Bonds Returns • The Returns from Stocks • Annuity, Annuity-Present and future value-sinking fund • Techniques of Discounting • Techniques of Compounding 	
3	Leverage	10
	<ul style="list-style-type: none"> • Introduction • EBIT & EPS Analysis • Types of Leverages: Operating Leverage, Financial Leverage & Composite Leverage • Relationship between Operating Leverage and Financial Leverage • Relationship between Operating Leverage and Break-even analysis • Positive and negative leverage • Financial leverage as trading on equity and Double-edged sword. 	
4	Cost of Capital	10
	<ul style="list-style-type: none"> • Introduction • Definition and Importance of Cost of Capital • Measurement of Cost of Capital • Calculate WACC, Marginal cost of capital and Effective interest rate 	
5	Capital Structure Decisions and Dividend Decisions	12
	<ul style="list-style-type: none"> • Capital Structure Theories – Background, Assumptions, Definitions and Taxation and Capital Structure 	

	<ul style="list-style-type: none">• Types – Net Operating Income, Net Operating Income Approach, Traditional Position, Modigliani and Miller Approach, Trade off Theory and Signalling Theory. Dividend Decisions- Need, Importance, Formulation, Legal and Procedural Aspects.• Dividend Decision Models - Walter, Gordon, Graham & Dodd Model and M-M Model	
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6. References Books

Financial Management - I
<ul style="list-style-type: none">• <i>Fundamentals of Financial Management</i> by D. Chandra Bose, PHI Learning Pvt. Ltd.• <i>Fundamentals of Financial Management</i> by Bhabotosh Banerjee, PHI Learning Pvt. Ltd.• <i>Fundamentals of Financial Management</i> by Vyuptakesh Sharma, Pearson Education• <i>Fundamentals of Financial Management</i> by J.C. Van Horne, Prentice Hall of India,• <i>Financial Management: Text and Problems</i> by M.Y. Khan and P.K. Jain, Tata McGraw Hill,• <i>Financial Management: Theory and Practice</i> by Prasanna Chandra, Tata McGraw Hill• <i>Financial Management</i> by I.M. Pandey, Vikas Publishing House, New Delhi

Choice Based Credit Grading and Semester System (CBCGS)**F.Y.B. Com. Accounting & Finance Semester – II Syllabus****(As per NEP 2020)****To be implemented from the Academic year 2023-2024*****Discipline Specific Course (Minor)*****1. Commerce**

1	Preamble of the syllabus
	B.Com. Accounting & Finance is a under graduate programme of Department of Accounting & Finance, Changu Kana Thakur Arts, Commerce & Science College, New Panvel, (Autonomous) affiliated to University of Mumbai (MH). The Choice Based Credit, Grading and Semester System to be implemented through this curriculum, would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. The learners pursuing this programme would have to develop understanding of various aspects of the Commerce (Business Environment), International Business Environment, Ecommerce. It helps to acquaint students with the concepts of business and its environment, also to understand the need towards society & business. The performance of the learners shall be evaluated into two components i.e., internal examination and external examination. The learner's Performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.

2	Objectives of the course
□	To acquaint students with the concepts of business and its environment.
□	To understand the need towards society & business
□	To enhance thinking abilities towards entrepreneurship
□	To acquire knowledge of E-commerce in India
□	To understand various responsibilities of business towards various stakeholders

3	Course Outcomes
	The students will be able to
□	Understand the concept of business environment and various tools of environmental analysis.
□	Aware of business ethics and Aware of various consumer laws in India.
□	Identify the factors of international business environment and positive and negative impact of environment on business.
□	Know CSR, Corporate Governance, and carbon credit and implementation of CSR activities by various companies.

4. Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Business and its Environment	10
2	Introduction & Functions to Management	10
3	E commerce	05
4	Fundamentals of Retailing	05
Total		30

5. Detailed syllabus

Sr. No.	Modules / Units	No. of Lectures
1	Business and its Environment	10
	<ul style="list-style-type: none"> Meaning, Definition, Objectives, Dynamics of Business and its Environment, Types of Business Environment Environmental Analysis: Importance, Factors, PESTEL Analysis, SWOT Analysis Constituents of Business Environment: Internal and External Environment, Educational Environment and its impact, International Environment – Current Trends in the World, International Trading Environment – WTO and Trading Blocs and their impact on Indian Business. Strategies for going Global: MNCs and TNCs, WTO Foreign Trade in India- Balance of Trade, FDI Investment Flows and its Implication for Indian Industries Business Ethics: Nature and Scope of Ethics, Ethical Dilemmas, Corporate Culture and Ethical Climate 	
2	Introduction & Functions to Management	10
	Introduction to Management <ul style="list-style-type: none"> Introduction, Definition, Nature, Objectives, Levels, Principles of Management Functions of Management <ul style="list-style-type: none"> Planning, Organizing, Staffing, Directing and Controlling 	
3	E - Commerce	05
	<ul style="list-style-type: none"> Meaning, Features, Functions and Scope of E-Commerce-Importance and Limitations of E-Commerce Types of E-Commerce: Basic ideas and Major activities of B2C, B2B, C2C. Present status of E-Commerce in India: Transition to E-Commerce in India, E-Transition Challenges for Indian Corporates; on-line Marketing Research, M-Commerce: Meaning, Features, Functions, Scope, Benefits and Limitations of M-Commerce, Components, Supporting Technology, Mobile Security, Mobile Application 	
4	Fundamentals of Retailing	05
	<ul style="list-style-type: none"> Concept of organized and unorganized retailing, Trends in retailing, growth of organized retailing in India, Survival strategies for unorganized Retailers Retail Format: Store format, non – Store format, Store Planning, design and layout Retail Scenario in India and Global context – Prospects and Challenges in India. Mall Management – Retail Franchising. FDI in Retailing, Careers in Retailing 	

6. Reference Books

Commerce
<ul style="list-style-type: none">• <i>Business Environment Text and Cases</i> by M.B. Shukla, Taxman Publications, New Delhi• <i>Global Economy and Business Environment</i> by Francis Cherunilam, Himalaya Publication House, Mumbai• <i>Business Environment: Text and Cases</i> by Francis Cherunilam, Himalaya Publication House, Mumbai• <i>Essentials of Business Environment</i> by K. Aswathappa, Himalaya Publication House, Mumbai• <i>Business Environment</i> by Justin Paul, Tata McGraw Hill Education Pvt. Ltd., New Delhi• <i>Entrepreneurial Development</i> by S.S. Khanka, S. Chand and Company Pvt. Ltd., New Delhi• <i>Dynamics of Entrepreneurship</i> by Vasanta Desai, Himalaya Publishing House, Mumbai• <i>Entrepreneurship and Small Development Business Management</i> by C.B. Gupta and S.S. Khanka, Sultan Chand and Sons, New Delhi• <i>Entrepreneurship</i> by David H. Holt, PHI Learning Pvt. Ltd., New Delhi• <i>The Complete E-Commerce Book: Design, Build & Maintain a Successful Web-based Business</i>, by Janice Reynolds• <i>The International Business Environment</i> by Leslie Hamilton, Philip Webster• <i>Retail Management</i>, by Gibson

Choice Based Credit Grading and Semester System (CBCGS)**F.Y.B.Com. Accounting & Finance Semester – II Syllabus****(As per NEP 2020)****To be implemented from the Academic year 2023-2024****4b. Skill Enhancement Course****Data Analytics with MS- Excel and SPSS**

1	Preamble of the syllabus
	B.Com. in Accounting & Finance is an under-graduation course of Department of B.Com. (Accounting & Finance), Changu Kana Thakur Arts, Commerce & Science College, New Panvel. Affiliated to University of Mumbai (MH). The course is designed to guide students of B. Com accounting and finance to apply statistical analysis and technologies on data to find trends and solve problems, analyse data through MS-Excel and SPSS. The performance of the learners shall be evaluated into two components i.e., internal and external. The learner's performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.

2	Objectives of the syllabus
□	To study to apply statistical analysis and technologies on data to find trends and solve problems.
□	To study data analysis through MS-excel.
□	To study data analysis through SPSS.

3	Course Outcome	Bloom Taxonomy
	The students will be able to:	
□	Explain concept of data analytics & its types, importance & benefits	Understand
□	Analyze and visualize the data using MS-excel	Analyze
□	Analyze and visualize the data using SPSS	Analyze

4. Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Data Analysis	10
2	Data Analysis with use of MS Excel	10
3	Data Analysis with use of SPSS	10
Total		30

5. Detailed Syllabus

Sr. No.	Modules / Units	No. of Lectures
1	Introduction to Data Analysis	10
	<ul style="list-style-type: none"> • Data Analytics Overview • Importance of Data Analytics • Types of Data Analytics - Descriptive Analytics, Diagnostic Analytics, Predictive Analytics, Prescriptive Analytics • Benefits of Data Analytics • Data Visualization for Decision Making • Types of Data 	
2	Data Analysis with use of MS Excel	10
	<ul style="list-style-type: none"> • Basics of Excel • Formulas and Functions • Data Visualization • SmartArt and Organization Chart • Putting Data in perspective with Pivots • Complex Data Analysis using ToolPak • Mail Merge using Excel • Macros in excel 	
3	Data Analysis with use of SPSS	10
	<ul style="list-style-type: none"> • Introduction of SPSS • Descriptive Statistics • Correlation, Regression and Scatter/ Dot Plot • Parametric Techniques: T-Test, Annova (F-Test), Z-Test • Non-Parametric Techniques (Chi Square and others) • Trend Analysis 	

6. References Books

	Data Analytics with MS- Excel and SPSS
	<ul style="list-style-type: none"> • <i>Fundamentals of Computers – Rajaram V – Prentice Hall</i> • <i>Computer today (3rd edition) – Sanders, Donald H – McGraw Hill</i> • <i>Computers and Common sense – Hunt, Roger and Shelly John – Prentice Hall</i> • <i>Computers – Subramaniam N – Wheeler</i> • <i>Introduction to Computers – Xavier C. – New Age</i> • <i>Computer in Business – Sanders D – McGraw Hill</i> • <i>Computers and Information Management – S C Bhatnagar & V Ramant – Prentice Hall</i> • <i>Internet for Business – Brummer, Lavrej – Cambridge</i> • <i>E-mail for Everyone – Leon Alexis & leon – Methews Basic Computer Programmes for Business – Sternberg C – New Jersey Hayden</i> • <i>SPSS 17.0 for Researchers – Dr. S.L. Gupta, Hitesh Gupta</i>

Choice Based Credit Grading and Semester System (CBCGS)

F.Y.B. Com. Accounting & Finance Semester – I & II

To be implemented from the Academic year 2023-2024

Scheme of Evaluation

Scheme of examination for each semester

The performance of the learners shall be evaluated into two components. The learner's Performance shall be assessed by Internal Assessment with 40% marks in the first component. External assessment with 60% marks in the second component. The allocation of marks for the Internal Assessment and Semester End Examinations are as shown below: -

A) Internal Assessment: 40 %

40 Marks

Internal Assessment- (Courses without Practical Courses)

Sr. No.	Particular	Marks
01	One periodical class test / online examination to be conducted in the given semester	20 Marks
02	Group / Individual Survey Project / Presentation and write up on the selected topics of the subjects / Case Studies / Test based on tutorials / Book Review / Poetry Appreciation / Open Book Test	15 Marks
03	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
	Total Marks	40 Marks

Internal Assessment- (Courses with Practical)

Sr. No.	Particular		Marks
01	Practical Examination		20 Marks
	Journal	05 Marks	
	Viva Voce	05 Marks	
	Laboratory Work	10 Marks	
02	Group / Individual Survey Project / Presentation and write up on the selected topics of the subjects / Case Studies / Test based on tutorials / Book Review / Poetry Appreciation / Open Book Test		15 Marks
03	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
	Total Marks		40 Marks

Question Paper Pattern
(Periodical Class Test for the Courses at Under Graduate Programmes)

Maximum Marks: 20

Duration: 40 Minutes

Questions to be set: 02

All Questions are Compulsory

Question No.	Particular	Marks
Q-1	Match the Column / Fill in the Blanks / Multiple Choice Questions/ Answer in One or Two Lines (Concept based Questions) (1 Marks / 2 Marks each)	10 Marks
Q-2	Answer in Brief (Attempt any Two of the Three) (5 Marks each)	10 Marks

B) Semester End Examination: 60 %**60 Marks**

- Duration: The examination shall be of 2 hours duration.

Question Paper Pattern

Theory question paper pattern
<ol style="list-style-type: none"> 1. There shall be four questions each of 15 marks (30 marks with internal options). 2. All questions shall be compulsory with internal options. 3. Question may be subdivided into sub-questions a, b, c... and the allocation of marks depends on the weightage of the unit/module.

Question Paper Pattern

(Practical Courses)

Maximum Marks: 60

Questions to be set: 04

Duration: 2 Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question No	Particular	Marks
Q-1	Full Length Practical Question	15 Marks
	OR	
Q-1	Full Length Practical Question	15 Marks
Q-2	Full Length Practical Question	15 Marks
	OR	
Q-2	Full Length Practical Question	15 Marks
Q-3	Full Length Practical Question	15 Marks
	OR	
Q-3	Full Length Practical Question	15 Marks
Q-4	Full Length Practical Question	15 Marks
	OR	
Q-4	Short Notes (Any three out of five)	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: 60

Questions to be set: 04

Duration: 2 Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question No	Particular	Marks
Q-1	Full Length Question	15 Marks
	OR	
Q-1	Full Length Question	15 Marks
Q-2	Full Length Question	15 Marks
	OR	
Q-2	Full Length Question	15 Marks
Q-3	Full Length Question	15 Marks
	OR	
Q-3	Full Length Question	15 Marks
Q-4	Full Length Question	15 Marks
	OR	
Q-4	Short Notes (Any three out of five)	15 Marks

Note:

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

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. 16 out of 40) in the Internal Assessment and 40% marks in Semester End Examination (i.e. 24 Out of 60) 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.



Janardan Bhagat Shikshan Prasarak Sanstha's

**CHANGU KANA THAKUR
ARTS, COMMERCE & SCIENCE COLLEGE (AUTONOMOUS), NEW PANVEL**

**Re-accredited 'A+' Grade by NAAC
'College with Potential for Excellence' Status Awarded by UGC
'Best College Award' by University of Mumbai**

Department of Accounting & Finance

Board of Studies in Accounting & Finance

Program: B.Com. Accounting & Finance

**Revised Syllabus of S.Y.B.Com. Accounting & Finance
Choice Based Credit & Grading System (60:40)
w.e.f. Academic Year 2023-2024**

Sr. No.	Heading	Particulars
1	Title of Programme	B.Com. Accounting & Finance
2	Eligibility for Admission	Passed F.Y. B.Com. A & F (Sem. I and II)
3	Passing marks	40%
4	Ordinances/Regulations (if any)	--
5	No. of Semesters	Six
6	Level	U.G.
7	Pattern	Semester (60:40)
8	Status	Revised
9	To be implemented from Academic year	2023-2024

B.Com. (Accounting and Finance) Programme

Under Choice Based Credit, Grading and Semester System

Course Structure

S.Y.B.Com. (Accounting and Finance)

(To be implemented from Academic Year- 2023-2024)

No. of Courses	Semester III	Credits	No. of Courses	Semester IV	Credits
1	Elective Courses (EC)		1	Elective Courses (EC)	
1,2 & 3	*Any three courses from the following list of the courses	09	1,2 & 3	**Any three courses from the following list of the courses	09
2	Ability Enhancement Courses (AEC)		2	Ability Enhancement Courses (AEC)	
2A	Ability Enhancement Compulsory Course (AECC)		2A	Ability Enhancement Compulsory Course (AECC)	
4	Business Communication - I	03	4	Information Technology – II	03
2B	*Skill Enhancement Courses (SEC)		2B	**Skill Enhancement Courses (SEC)	
5	Any one course from the following list of the courses	02	5	Any one course from the following list of the courses	02
6	Digital Banking	02	6	Dashboards with Power BI & Tableau	02
3	Core Courses (CC)		3	Core Courses (CC)	
7	Business Law (Company Law) – III	03	7	Business Economics- II (Macro Economics)	03
8	Research Methodology in Accounting and Finance	03	8	Auditing	03
Total Credits		22	Total Credits		22

*List of Elective Courses (EC) for Semester III (Any Three)		**List of Elective Courses (EC) for Semester IV (Any Three)	
1	Financial Accounting (Special Accounting Areas) – III	1	Financial Accounting (Special Accounting Areas) – IV
2	Financial Management II	2	Cost & Management Accounting II
3	Taxation - I (Direct Taxes Paper- I)	3	Taxation - II (Direct Taxes Paper - II)
4	Risk Management	4	Wealth management
5	Principles & Practices of Banking	5	Principles & Practices of Insurance
Note: Course selected in Semester III will continue in Semester IV			

*List of Skill Enhancement Courses (SEC) for Semester III (Any One)		**List of Skill Enhancement Courses (SEC) for Semester IV (Any One)	
1	Foundation Course in Commerce (Financial Market Operations) – III	1	Foundation Course in Management (Introduction to Management) - IV
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
Note: Course selected in Semester III will continue in Semester IV			

Choice Based Credit Grading and Semester System (CBCGS)**S.Y.B. Com. Accounting & Finance Syllabus****To be implemented from the Academic year 2023-2024****Semester III**

Sr.No.	Course Code	Course Title	Credits	L / Week
1	UAF3FA3	Financial Accounting (Special Accounting Areas) – III	3	4
2	UAF3FM2	Financial Management - II	3	4
3	UAF3TX1	Taxation - I (Direct Taxes Paper- I)	3	4
4	UAF3BC2	Business Communication - II	3	4
5	UAF3BL2	Business Law (Company Law) – III	3	4
6	UAF3RMA	Research Methodology in Accounting and Finance	3	4
	Any one course from the following list of the courses			
7	UAF3FC3	Foundation Course in Commerce (Financial Market Operations) – III	2	4
	UAF3NS3	Foundation Course in NSS – III		
	UAF3NC3	Foundation Course in NCC – III		
	UAF3PE3	Foundation Course in Physical Education – III		
8	UAF3DBT	Digital Banking	2	2
		Total Credits	22	-

Choice Based Credit Grading and Semester System (CBCGS)**S.Y.B.Com. Accounting & Finance Semester – III Syllabus****To be implemented from the Academic year 2023-24*****1. Elective Courses (EC)*****1. Financial Accounting
(Special Accounting Areas)– III**

1	Preamble of the syllabus
	B.Com. in Accounting & Finance is an under graduate programme of the Department of B.Com. (Accounting & Finance), Changu Kana Thakur Arts, Commerce & Science College (Autonomous), New Panvel, Affiliated to University of Mumbai (MH). The Choice Based Credit, Grading, and Semester System to be implemented through this curriculum would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. The students pursuing this course would have to develop an understanding of various aspects of the Accounting & Finance. The conceptual understanding, development of experimental skills, developing the aptitude for academic and professional skills, acquiring basic concepts and understanding of hyphenated techniques, understanding the fundamental Accountancy processes and rationale towards the application of Accounting & Finance knowledge is among such important aspects. The performance of the learners shall be evaluated into two components i.e. internal and external. The learner's performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.

2	Objectives of the course
□	The main objective is to describe the pattern of final accounts
□	It also describes the process of liquidation which is included in the company account
□	To provide the knowledge of amalgamation of the partnership firms
□	To give practical knowledge of accounts
□	To understand the conversion of foreign currency into reporting currency

3	Outcomes of the course	Bloom Taxonomy
	Students will able to:	
□	Demonstrate the effects on financial statements in case of admission, retirement and death of a partner during the year.	Understand
□	Describe the concept of profit prior to incorporation and calculate the different ratios for determining the profit/loss for pre and post-incorporation period.	Understand
□	Calculate purchase consideration and evaluate the effect of amalgamation/conversion in the Balance Sheet.	Apply
□	Prepare and evaluate a statement of piecemeal distribution of cash under different methods.	Create

4. Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Partnership Final Accounts	15
2	Piecemeal Distribution of Cash	10
3	Amalgamation of Firms	15
4	Conversion / Sale of a Partnership Firm into a Ltd. Company	10
5	Ascertainment and Treatment of Profit Prior to Incorporation	10
Total		60

5	Detailed Syllabus	
	Financial Accounting (Special Accounting Areas) – III	
Sr. No.	Modules / Units	No. of Lectures
1	Partnership Final Accounts based on Adjustment of Admission or Retirement / Death of a Partner during the Year	15
	<ul style="list-style-type: none"> Simple final accounts questions to demonstrate the effect on the final Accounts when a partner is admitted during the year or when partner Retires / dies during the year Allocation of gross profit prior to and after admission/retirement / death when stock on the date of admission/retirement is not given and apportionment of other expenses based on time / Sales/other given basis Ascertainment of gross profit prior to and after admission/retirement / death when stock on the date of admission / retirement is given and apportionment of other expenses based on time / Sales / other given basis 	
2	Piecemeal Distribution of Cash	10
	<ul style="list-style-type: none"> Excess Capital Method & Maximum Loss Method Asset took over by a partner Treatment of past profits or past losses in the Balance sheet Contingent liabilities / Realization expenses/amount kept aside for expenses and adjustment of actual, Treatment of secured liabilities, Treatment of preferential liabilities like Govt. dues/Labour dues, etc. Insolvency of partner and Maximum Loss Method 	
3	Amalgamation of Firms	15
	Realization method only Calculation of purchase consideration Journal/ledger accounts of old firms, Preparing a Balance sheet of a new firm Adjustment of goodwill in the new firm Realignment of capitals in the new firm by current accounts / cash or a combination thereof	
4	Conversion / Sale of a Partnership Firm into a Ltd. Company	10
	Realization method only Calculation of New Purchase consideration, Journal / Ledger Accounts of old firms. Preparing Balance sheet of new company	
5	Ascertainment and Treatment of Profit Prior to Incorporation	10
	Principles for ascertainment Preparation of separate, combined and columnar Profit and Loss Account including different basis of allocation of expenses/ incomes	

Note: Relevant Law/Statute/Rules in force and relevant Accounting Standards in force on 1st April immediately preceding commencement of Academic Year is applicable for ensuring examination after the relevant year.

6	References Books
	Financial Accounting - Paper III
	<ul style="list-style-type: none"> • <i>Introduction to Accountancy</i> by T.S. Grewal, S. Chand and Company (P) Ltd., New Delhi • <i>Advance Accounts</i> by Shukla and Grewal, S. Chand and Company (P) Ltd., New Delhi • <i>Advanced Accountancy</i> by R.L Gupta and M. Radhaswamy, S. Chand and Company (P) Ltd., New Delhi • <i>Modern Accountancy</i> by Mukherjee and Hanif, Tata Mc. Grow Hill and Co. Ltd., Mumbai • <i>Financial Accounting</i> by LesileChandwichk, Pentice Hall of India AdinBakley (P) Ltd., New Delhi • <i>Financial Accounting for Management</i> by Dr. Dinesh Harsalekar, Multi-Tech. Publishing Co. Ltd., Mumbai • <i>Financial Accounting</i> by P.C. Tulsian, Pearson Publications, New Delhi • <i>Accounting Principles</i> by R.N. Anthony and J.S. Reece, Richard Irwin, Inc • <i>Financial Accounting</i> by Monga, J.R. Ahuja, GirishAhuja and Ashok Shehgal, Mayur Paper Back, Noida • <i>Compendium of Statement and Standard of Accounting</i>, ICAI • <i>Indian Accounting Standards</i>, Ashish Bhattacharya, Tata Mc. Grow Hill and Co. Ltd., Mumbai • <i>Financial Accounting</i> by Williams, Tata Mc. Grow Hill and Co. Ltd., Mumbai • <i>Company Accounting Standards</i> by ShrinivasanAnand, Taxman, New Delhi • <i>Financial Accounting</i> by V. Rajasekaran, Pearson Publications, New Delhi • <i>Introduction to Financial Accounting</i> by Horngren, Pearson Publications, New Delhi • <i>Financial Accounting</i> by M. Mukherjee and M. Hanif, Tata McGraw Hill Education Pvt. Ltd., New Delhi • <i>Financial Accounting a Managerial Perspective</i>, Varadraj B. Bapat, MehulRaithatha, Tata McGraw Hill Education Pvt. Ltd., New Delhi

Choice Based Credit Grading and Semester System (CBCGS)**S.Y.B.Com. Accounting & Finance Semester – III Syllabus****To be implemented from the Academic year 2023-2024*****1. Elective Courses (EC)*****2. Financial Management II**

1	Preamble of the syllabus
	B.Com. in Accounting & Finance is an under graduate programme of the Department of B.Com. (Accounting & Finance), Changu Kana Thakur Arts, Commerce & Science College (Autonomous), New Panvel, Affiliated to University of Mumbai (MH). The Choice Based Credit, Grading, and Semester System to be implemented through this curriculum would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. The course is designed to guide students of B.Com accounting and finance to evaluate strategic financial management options in the light of changing environments and effectively manage the financial operations of business also understand about the capital structure theories The performance of the learners shall be evaluated into two components i.e. internal and external. The learner's performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.

2.	Objectives of the course
□	To enhance the abilities of the learners to develop the objectives of financial management.
□	To enable the learners to understand, develop and apply the techniques of investment in the financial decision making in the business corporate
□	Determining the optimal financial strategy for various stages of the life-cycle of the enterprise
□	To understand about the capital structure theories
□	To enable the learners to understand, about mutual funds & bond valuation

3	Course Outcome	Bloom Taxonomy
□	Students will able to :	
□	Explain the various capital structure theories and to demonstrate the dividend decision models	Understand
□	Apply the different techniques of capital budgeting for effective decision making	Apply
□	Compare and evaluate different policies under inventory management	Analyze
□	Compare and evaluate different policies under receivable and payable management	Analyze

4. Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Capital Budgeting – Project Planning & Risk Analysis	15
2	Capital Structure Theories and Dividend Decisions	15
3	Management of Working Capital - I	15
4	Management of Working Capital - II	15
Total		60

5	Detailed Syllabus	
	Financial Management II	
Sr. No.	Modules / Units	No. of Lectures
1	Capital Budgeting – Project Planning & Risk Analysis	15
	<ul style="list-style-type: none"> • Introduction - Capital Budgeting Process, Project Classification and Investment Criteria. • Techniques of Capital Budgeting - NPV, Benefit Cost Ratio, Internal Rate of Return, Modified Internal Rate of Return, Payback period, Discounted Payback Period and ARR. (Inclusive of Estimation of Project Cash Flows) • Capital Rationing – Meaning, Need and Dealing with Capital Rationing Problems • Risk Analysis in Capital Budgeting – Introduction to risk analysis, Sources and Perspectives of Risk, Statistical Techniques - Probability, Variance Standard Deviation, Co-efficient of variation, Simulation Model, Decision Tree Analysis .Conventional Techniques - Sensitivity Analysis, Scenario Analysis, Risk Adjusted Discount Rate, Certainty Equivalent factor. 	.
2	Capital Structure Theories and Dividend Decisions	15
	<ul style="list-style-type: none"> • Capital Structure Theories – Background, Assumptions, Definitions and Taxation and Capital Structure • Types – Net Operating Income, Net Operating Income Approach, Traditional Position, Modigliani and Miller Approach, Trade off Theory and Pecking Order Theory. • Dividend Decisions- Need, Importance, Formulation, Legal and Procedural Aspects. • Dividend Decision Models - Walter, Gordon, Graham & Dodd Model and M-M Model 	
3	Management of Working Capital - I	15
	<ul style="list-style-type: none"> • Introduction to Working Capital Management - Meaning, need and importance of working capital, Factors which determine the working capital, methods of estimating working capital, various components of working capital with its management. • Financing of Working Capital - Introduction, Source of finance, and Working Capital Finance from Banks, Forms of Bank Credit, Maximum Permissible Bank Finance- Tandon committee. • Inventory Management - Inventory management Techniques – Economic order quantity, Stock Levels, Inventory Turnover Ratios and ABC Analysis. 	
4	Management of Working Capital - II	15
	<ul style="list-style-type: none"> • Treasury & Cash Management - Meaning, Functions of Treasury Department, Management of Cash, and Methods of Cash flow Budgeting, Cash Management Models, Recent Developments in cash management. • Receivable Management - Meaning, Objective, Aspects of management of Debtors, Factors determining credit policy, Factors under the control of finance manager, Approaches to evaluation of credit policies, Financing Receivables, Innovations in receivable management, and Monitoring of receivables, Approaches of evaluation of credit policies (total approach & Incremental approach), Credit Evaluation, Credit Granting Decision, Control of Accounts Receivables i.e. Receivables Management, Ageing Schedule and Credit Management in India, Pledging & factoring, Innovations in receivable management • Payable Management - Introduction, cost and benefits of trade credit, computations of cost of payables. 	

6	References Books
	Financial Management - II
	<ul style="list-style-type: none"> • <i>Fundamentals of Financial Management</i> by D. Chandra Bose, PHI Learning Pvt. Ltd., New Delhi • <i>Fundamentals of Financial Management</i> by Bhabotosh Banerjee, PHI Learning Pvt. Ltd., New Delhi • <i>Fundamentals of Financial Management</i> by Vyuptakesh Sharma, Pearson Education, New Delhi • <i>Fundamentals of Financial Management</i> by J.C. Van Horne, Prentice Hall of India, New Delhi • <i>Financial Management: Text and Problems</i> by M.Y. Khan and P.K. Jain, Tata McGraw Hill, New Delhi • <i>Financial Management: Theory and Practice</i> by Prasanna Chandra, Tata McGraw Hill, New Delhi • <i>Financial Management</i> by I.M. Pandey, Vikas Publishing House, New Delhi • <i>Financial Management</i> by C. Paramasivan & T. Subramanian • <i>Financial Management</i> by IM Pandey • <i>Financial Management</i> by Ravi Kishor • <i>Financial Management</i> by Khan & Jain

Choice Based Credit Grading and Semester System (CBCGS)**S.Y.B.Com. Accounting & Finance Semester – III Syllabus****To be implemented from the Academic year 2023-2024*****1. Elective Courses (EC)*****3. Taxation - I (Direct Taxes Paper- I)**

1	Preamble of the syllabus
	B.Com. in Accounting & Finance is an under graduate programme of the Department of B.Com. (Accounting & Finance), Changu Kana Thakur Arts, Commerce & Science College (Autonomous), New Panvel, Affiliated to University of Mumbai (MH). The Choice Based Credit, Grading, and Semester System to be implemented through this curriculum would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. The course is designed to guide students of B.Com accounting and finance towards basic fundamentals in the area of direct taxes. Learners who will pursue this course will understand the provisions and procedure to compute total income under different heads of income. The conceptual understanding will help in developing real-life situations involving taxation & to equip them with techniques for taking tax-sensitive decisions. The performance of the learners shall be evaluated into two components i.e., internal and external. The learner's performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.

2	Objectives of the course
□	To acquaint the students with basic principles underlying the provisions of direct & indirect taxes laws & to develop a broad understanding of the tax laws & accepted tax practices
□	To give an understanding of the relevant provisions of direct tax code
□	To introduce practical aspects of tax planning as an important managerial decision-making process.
□	Expose the participants to real-life situations involving taxation & to equip them with techniques for taking tax sensitive decisions
□	To understand the provisions and procedure to compute total income under five heads of income i.e. Salaries, house property, profit & gains from business & profession, capital gains, and other sources.

3	Course Outcome	Bloom Taxonomy
	Students will able to	
□	Define and describe concepts of income tax	Remember
□	Determine the residential status of different persons.	Apply
□	Identify and apply the assessee eligible for deduction for deduction under chapter VI A	Apply
□	Compute income chargeable to tax under the various heads of income	Analyze
□	Compute and interpret taxable income and tax liability of individual and HUF	Evaluate

4. Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Basic Concepts, Residential Status, Scope of Total Income and Income which do not part of total income	10
2	Heads of Income	30
3	Deductions under Chapter VI – A	08
4	Computation of Total Income & Tax liability	12
Total		60

5	Detailed Syllabus	
	Taxation-I (Direct Taxes Paper- I)	
Sr. No.	Modules / Units	No. of Lectures
1	Basic Concepts, Residential Status, Scope of Total Income and Income which do not part of total income	10
	Basic Concepts- Basic related to Income Tax Definitions u/s – 2: Assesse, Assessment Year, Assessment, Annual value, Business, Capital asset, Income, Person, Previous Year, Transfer Basis of Charge : Section 3 – 9 – Previous Year, Residential Status, Scope Of Total Income, Deemed Income, Income which does not part of total income: Section 10 Note -Exemptions related to specific Heads of Income to be covered with Relevant Provisions.	
2	Heads of Income	30
	Various Heads of Income Salary Income: Section 15 – 17, Including relief under section 89 Income From House Property : Section 22 – 27, Including Section 2 – Annual Value Profits & Gains From Business & Profession : Section 28-44D excluding section 35AD, 35 2(AA)35 (2AB),35CCA, 35CCC, 35CCD,35D,35DDA Capital Gains : Section 45- 55 Income from Other Sources: Section 56 – 59 Profits and Gains of Business or Profession :Tax Audit u/s 44AB; and Provisions u/s 43A, 43B, 43AA, 44AD, 44ADA and 44AE	
3	Deductions under Chapter VI – A	8
	80 A- Restriction on a claim in Chapter VI- A deductions Deductions under Chapter VI – A (related to individual and HUF)	
4	Computation of Total Income & Tax liability	12
	Computation of Total Income of Individual and HUF with respect to above heads and deductions under old tax regime & new tax regime	

Note: Relevant Law/Statute/Rules in force and relevant Standards in force on 1st April immediately preceding commencement of Academic Year is applicable for ensuring examination after relevant year.

6	Reference Books
	Taxation-I (Direct Taxes Paper- I)
	<ul style="list-style-type: none"> • <i>Direct Taxes Law &Practice by V. K. Singhania – Taxman</i> • <i>Systematic Approach to Direct Tax by Ahuja & Gupta – Bharat Law House</i> • <i>Income Tax Ready Recknoner by Dr. V. K. Singhania – Taxman</i> • <i>Direct Tax Laws by T. N. Manoharan – Snow White</i> • <i>Taxmann's Direct Taxes Ready Reckoner (DTRR) / A.Y. 2023-24 & 2024-25 – Illustrative Ready Referencer on Income-tax with Focused Analysis / Break-even Tables for Alternative Tax Regime / 47th Edition</i> • <i>Taxmann's Direct Taxes Law & Practice / AY 2023-24 – The go-to-guide for students & professionals for over 40 years, equips the reader with the ability to understand & apply the law / 68th Edition by Dr. Vinod Singhania and Dr. Kapil Singhania / 1 February 2023</i> • <i>Taxmann's Income Tax Act – Covering amended, updated & annotated text of the Income-tax Act, 1961 as amended by the Finance Act 2023 in the most authentic format / 68th Edition / 2023 Paperback – 1 April 2023</i>

Choice Based Credit Grading and Semester System (CBCGS)**S.Y.B.Com. Accounting & Finance Semester – III Syllabus****To be implemented from the Academic year 2023-2024*****1. Elective Courses (EC)*****4. Risk Management**

1	Preamble of the syllabus
	B.Com. in Accounting & Finance is an under graduate programme of the Department of B.Com. (Accounting & Finance), Changu Kana Thakur Arts, Commerce & Science College (Autonomous), New Panvel, Affiliated to University of Mumbai (MH). The Choice Based Credit, Grading, and Semester System to be implemented through this curriculum would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. The students pursuing this course would have to develop an understanding of various aspects of Accounting & Finance. It understand the fundamentals of risk, manage the risk and acquire the knowledge of equity, currencies, commodities and introduction about credit risk, procedure of credit risk and using various techniques of risk measurement. The performance of the learners shall be evaluated into two components i.e., internal and external. The learner's performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.

2.	Objectives of the course
□	To Understand the fundamentals of Risk, how to manage the risk and financial crisis
□	To acquire the knowledge of equity, currencies, commodities market and derivatives and to differentiate forward, future and options contracts.
□	To introduce learners about credit risk, procedure of credit risk and lifecycle of credit.
□	To evaluate the risk by using various techniques of risk measurement.

3	Course Outcome	Bloom Taxonomy
	Student will able to	
□	define the fundamentals of risk and memorize the history of financial disaster and risk management failures	Remember
□	classify equity, currencies and commodities marked in India and describe the derivatives, future and option contracts and hedging.	Analyze
□	explain credit risk, procedure of credit risk and lifestyle of credit	Understand
□	evaluate the risk by using various techniques of risk management	Evaluate

4. Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Foundations of Risk Management	15
2	Capital markets Risk Management	15
3	Credit Market Risk Management	15
4	Risk Measurement	15
Total		60

5	Detailed Syllabus	
	Risk Management	
Sr. No.	Modules / Units	No. of Lectures
1.	Foundations of Risk Management	15
	<ul style="list-style-type: none"> • Basic risk types • The role of risk management • Enterprise Risk Management (ERM) • History of financial disasters and risk management failures • 2007 financial crisis 	
2.	Capital Market Risk Management	15
	<ul style="list-style-type: none"> • Equity, currencies & commodities markets in India • Introduction to Derivatives • Forward, Future and option contracts • Hedging through Derivatives contract • Fixed-income securities • Fixed-income risk management through derivatives • Rating agencies 	
3.	Credit Market Risk Management	15
	<ul style="list-style-type: none"> • Introduction, • Information required for evaluation of credit risk, • Procedure for Credit Risk Management, • Credit Lifecycle, • Loan Review Mechanism, • RBI guidelines on Credit Rating Framework in Banks, • Introduction of Basel Norms and calculation of capital adequacy ratio 	
4.	Risk Measurement	15
	<ul style="list-style-type: none"> • Estimation of volatilities and correlations (application to volatility term structures) Monte Carlo simulations (application to interest rate forecasting) • Linear Value-at-Risk (application to market, credit and operational risk) • Option valuation • Risk-adjusted return on capital (RAROC) & beta calculation • Risk management of derivatives (application to convertible risk) • Interest rates and measures of interest rate sensitivity 	

6	References Books
	Risk Management
	<ul style="list-style-type: none"> • <i>"Categorisation and formulation in risk management"</i> by Peter Nilsson • <i>"Practical Methods of Financial Engineering and Risk Management"</i> by CHATTERJEE Rupak Chatterjee • <i>"Financial Engineering, Risk Management & Financial Institutions"</i> by G V Satya Sekhar. • <i>"Analytical Methods for Risk Management"</i> by Paul R Garvey • <i>Risk Management: The Ultimate Guide to Financial Risk Management as Applied to Corporate Finance</i> by Greg Shields • <i>Risk Management</i> by INDIAN INSTITUTE OF BANKING & FINANCE Paperback

**Choice Based Credit Grading and Semester System (CBCGS)
S.Y.B.Com. Accounting & Finance Semester – III Syllabus**

To be implemented from the Academic year 2023-2024

1. Elective Courses (EC)

5. Principles & Practices of Banking

1	Preamble of the syllabus
	B.Com. in Accounting & Finance is an under graduate programme of the Department of B.Com. (Accounting & Finance), Changu Kana Thakur Arts, Commerce & Science College (Autonomous), New Panvel, Affiliated to University of Mumbai (MH). The Choice Based Credit, Grading, and Semester System to be implemented through this curriculum would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. The course is designed to guide students of B.Com accounting and finance towards basic fundamentals in the area of Banking. Learners who will pursue this course will be able to acquire the knowledge about various functions associated with banking, Practice & procedures relating to deposit & credit, documentation, monitoring & control, also an insight into the marketing of banking services & banking technology. The performance of the learners shall be evaluated into two components i.e., internal and external. The learner's performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.

2	Objectives of the course
□	To introduce students to principles & practices of modern banking
□	To introduce students to banking and its regulation in an international context.
□	To make students explore the structure of banking & topical issues in banking
□	To expose students in the various ways of estimating bank performance, risk, competition and other relevant measures by using bank data.

3	Course outcomes	Bloom Taxonomy
□	Student will able to	
□	identify and review banks' major risks, risk management techniques and strategies	Apply
□	estimate bank performance, risk, and efficiency and competition measures and understand their relevance in explaining issues of systemic risk, regulation, and the financing conditions in the economy.	Evaluate
□	explain the dynamic changes of the banking industry and the policy responses because of the recent crisis	Understand
□	explain ethical issues in banking and consider their implications for conduct of business.	Understand

4. Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Indian Financial Systems	15
2	Functions of Banks & related issues	20
3	Banking Technology	15
4	Marketing & Services of Banking	10
Total		60

5	Detailed Syllabus	
	Principles & Practices of Banking	
Sr. No.	Modules / Units	No. of Lectures
1	Indian Financial Systems	15
	<ul style="list-style-type: none"> • Indian Financial Systems – An overview • Banking regulations • Introduction to retail banking, wholesale banking & international banking • Role of money market, debt market, capital market, Forex market & SEBI • Mutual Funds, Insurance Companies & IRDA • Factoring, Forfaiting services & off-balance sheet items • Risk management, Introduction to Basel norms CIBIL, Fair Practices code for debt collection 	
2	Functions of Banks & related issues	20
	<ul style="list-style-type: none"> • Banker customer relationship • KYC/AMF/CFT norms • Bankers' special relationship • Consumer Protection – COPRA, Banking Ombudsman Scheme • Payment & collection of cheque and other negotiable instruments • Opening accounts of various types of customers • Ancillary services • Cash operations • Principles of lending, working capital assessment & credit monitoring • Priority sector advances • Agricultural finance • Micro, Small & Medium enterprises- MSMED Act, the Policy package • Government sponsored schemes- SGSY, SJSRY, PMRY, SLRS • Self-help groups • Credit cards, home loans, personal loans & consumer loans • Documentation • Different types of charging securities • Types of collaterals & their characteristics\ • Non-performing assets • Financial inclusion 	
3	Banking Technology	15
	<ul style="list-style-type: none"> • Payment Systems & Electronic Banking • Data Communication & EFT System • Role of Technology & its impact on Banks 	
4	Marketing & Services of Banking	10
	<ul style="list-style-type: none"> • Marketing, Social Marketing Consumer Behavior & Product Pricing, Distribution & Channel management 	

6	Reference Books
	Principles & Practices of Banking
	<ul style="list-style-type: none"> • <i>Bank Financial Management Paperback- 2010 by IIBF (Indian Institute of Banking & Finance)</i> • <i>Money banking and financial Paperback- 2009 by N K Sinha</i> • <i>Principles and practices of banking Paperback- 2015 by IIBF (Indian Institute of Banking & Finance)</i> • <i>Principles and practices of banking 11 edition Paperback – 2015 by N S Toor, Arun Deep Toor</i> • <i>Principles of banking (with case studies) Hardcover – 2009 by Rakesh Kumar</i> • <i>Modern Banking in India, Gupta</i>

Choice Based Credit Grading and Semester System (CBCGS)**S.Y.B.Com. Accounting & Finance Semester – III Syllabus****To be implemented from the Academic year 2023-24****2B. Skill Enhancement Courses (SEC)****1. Foundation Course in Commerce (Financial Market Operations) - III**

1	Preamble of the syllabus
	B.Com. in Accounting & Finance is an under graduate programme of the Department of B.Com. (Accounting & Finance), Changu Kana Thakur Arts, Commerce & Science College (Autonomous), New Panvel, Affiliated to University of Mumbai (MH). The Choice Based Credit, Grading, and Semester System to be implemented through this curriculum would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. The course is designed to guide students of B.Com accounting and finance to give them an outline about the participants in the Financial Markets. It helps to make them aware of the primary and secondary markets. It also make the students aware about the share and debt markets. The performance of the learners shall be evaluated into two components i.e. internal and external. The learner's performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.

2	Objectives of the Syllabus
□	To give them an outline about the participants in the Financial Markets.
□	To aware the students about share and debt markets and name their collective name
□	To aware the students about the instruments of the money & bond
□	To make them capable to distinguish between fixed-interest & interest-bearing markets
□	To make them aware of the primary and secondary markets

3	Course Outcome	Bloom Taxonomy
	Students will able to :	
□	Outline Indian Financial System	Understand
□	Summarize financial market system	Understand
□	Explain different types of financial instruments	Evaluate
□	Evaluate different financial services	Create

4. Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	An Overview of the Financial System	15
2	Financial Markets	15
3	Financial Instruments	15
4	Financial Services	15
Total		60

5	Detailed Syllabus	
	Foundation Course in Commerce (Financial Market Operations) - III	
Sr. No.	Modules / Units	No. of Lectures
1	An Overview of the Financial System	15
	<ul style="list-style-type: none"> • Introduction • Functions • Organisation • Phase I: Pre 1951 organisation • Phase II: 1951 to Mid-Eighties organisation • Phase III: Post-Nineties organisation • Saving and Investment Money • Inflation and Interest • Banking and Non-Banking Financial Intermediaries 	
2	Financial Markets	15
	<ul style="list-style-type: none"> • Financial Markets: Introduction and meaning, Government Economic Philosophy and Financial Market, Structure of Financial Market in India • Capital Market: Introduction and meaning, Concept, Role, Importance, Evolution in India, Primary Market System and Regulations in India, Secondary Market System • Bond Market in India • Debt Market in India 	
3	Financial Instruments	15
	<ul style="list-style-type: none"> • Meaning and types of Financial Instruments • Characteristics of Financial Instruments: Liquidity, Maturity, Safety and Yield • REPO, TBs, Equities, Bonds, Derivatives, others 	
4	Financial Services	15
	<ul style="list-style-type: none"> • Merchant Banking: Managing of Public Equity / Debenture Issues Mobilizing Fixed Deposits, Arranging Inter-corporate Loans, • Raising term Finance and Loan Syndication. • Other Financial Services: Consumer Finance, Credit Cards, Mutual Funds and Commercial Paper 	

6	Reference Books
	Foundation Course in Commerce (Financial Market Operations) - III
	<ul style="list-style-type: none"> • <i>Social and Economic Problems in India</i>, Naseem Azad, R Gupta Pub (2011) • <i>Indian Society and Culture</i>, Vinita Padey, Rawat Pub (2016) • <i>Social Problems in India</i>, Ram Ahuja, Rawat Pub (2014) • <i>Faces of Feminine in Ancient , medivial and Modern India</i>, Mandakranta Bose Oxford University Press • <i>National Humana rights commission- disability Manual</i> • <i>Rural, Urban Migration : Trends, challenges & Strategies</i>, S Rajagopalan, ICFAI-2012 • <i>Regional Inequilities in India Bhat L SSSRD- New Delhi</i> • <i>Urbanisation in India: Challenges, Opportunities & the way forward</i>, I J Ahluwalia, Ravi Kanbur, P K Mohanty, SAGE Pub (2014) • <i>The Constitution of India</i>, P M Bakshi 2011 • <i>The Problems of Linguistic States in India</i>, Krishna Kodesia Sterling Pub • <i>Politics in India: structure, Process and Policy</i> Subrata Mitra, Rouutlege Pub • <i>Politics in India</i>, Rajani Kothari, Orient Blackswan • <i>Problems of Communilism in india</i>, Ravindra Kumar Mittal Pub • <i>Combating communalism in India: Key to National Integration</i>, Kawal Kishor Bhardwaj, Mittal Pub

Choice Based Credit Grading and Semester System (CBCGS)**S.Y.B.Com. Accounting & Finance Semester – III Syllabus****To be implemented from the Academic year 2023-24*****2B. Skill Enhancement Courses (SEC)*****2. Digital Banking**

1	Preamble of the syllabus
	B.Com. in Accounting & Finance is an under graduate programme of the Department of B.Com. (Accounting & Finance), Changu Kana Thakur Arts, Commerce & Science College (Autonomous), New Panvel, Affiliated to University of Mumbai (MH). The Choice Based Credit, Grading, and Semester System to be implemented through this curriculum would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. The course is designed to guide students of B. Com accounting and finance to give them an outline about the digital banking. It helps to make them aware of the various products of digital banking along with concept of branchless banking system and knowledge of global and domestic payment system. The performance of the learners shall be evaluated into two components i.e., internal and external. The learner's performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.

2	Objectives of the Syllabus
□	To understand the basic concepts of digital banking and their implementation in banking industry.
□	To understand the various products of digital banking in day-to-day activities.
□	To study the concepts of Branchless banking System and financial inclusions.
□	To assimilates knowledge of domestic and global payment system.

3	Course Outcome	Bloom Taxonomy
	Students will able to :	
□	summarize the basic concepts of digital banking.	Understand
□	describe the concepts of branchless banking and financial inclusions.	Understand
□	make use of various products of digital banking in their day-to-day banking activities.	Apply
□	make use of various domestic and global payment system.	Apply

4. Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Digital Banking Products	15
2	Branchless Banking and Payment System	15
Total		30

5	Detailed Syllabus	
	Digital Banking	
Sr. No.	Modules / Units	No. of Lectures
1	Digital Banking Products	15
	<ul style="list-style-type: none"> • Introduction • Cards • ATMs • Internet Banking and Mobile Banking • Cash Deposit Machines • Cash Re-Cyclers • POS Terminals 	
2	Branchless Banking and Payment System	15
	<ul style="list-style-type: none"> • Introduction, Objectives, Financial Inclusions, Vehicle for financial Inclusions, Business Correspondents, Digital Banking Products for financial Inclusions • Overview of Global Payment Systems • Overview of Domestic Payment Systems • RuPay, IMPS, NUUP, NACH, AEPS, e-KYC, CTS, NFS, RTGS, NEFT 	

5	Reference Books
	Digital Banking
	<ul style="list-style-type: none"> • <i>Digital Banking by Indian Institute of Banking and finance, 2019</i> • <i>The Digital Banking Revolution, Second Edition by Luigi Wewege, 2017</i> • <i>Information Technology and digital banking [perfect] IIBF [Jan 17, 2023] by IIBF</i> • <i>Financial Technology (FinTech) and Digital Banking in India by Jaspal Singh</i> • <i>Digital Banking Ready Reference for Customer: Net Banking, ATM, CDM, Debit Card, Credit Card etc. by Pradip Kumar Ray</i>

Choice Based Credit Grading and Semester System (CBCGS)**S.Y.B.Com. Accounting & Finance Semester – III Syllabus****To be implemented from the Academic year 2023-24****3. Core Courses (CC)****1. Business Law (Company Law) – III**

1	Preamble of the Syllabus
	B.Com. in Accounting & Finance is an under graduate programme of the Department of B.Com. (Accounting & Finance), Changu Kana Thakur Arts, Commerce & Science College (Autonomous), New Panvel, Affiliated to University of Mumbai (MH). The Choice Based Credit, Grading, and Semester System to be implemented through this curriculum would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. The course is designed to guide students of B.Com accounting and finance with the knowledge of Indian business law. It helps to provide the brief idea about the legal framework of Indian Business Law and to know role of law in an economic and business context. It also helps to acquaint knowledge of legal environment of business and corporate laws. The performance of the learners shall be evaluated into two components i.e. internal and external. The learner's performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.

2	Objectives of the Syllabus
□	To cover the principles of company law.
□	To examine the various structures through which business may be run.
□	To examine the ways of financing and conducting the affairs of a company. To examine the duties and rights of directors, Shareholder types, insolvency
□	To examine the method of establishing and running a company

3	Course Outcomes	Bloom Taxonomy
	Students will able to	
□	Define various concepts of the Companies Act, 2013.	Remember
□	Demonstrates the various provisions of the Insolvency and Bankruptcy Code, 2021.	Apply
□	Evaluate the various provisions of the Companies Act, 2013.	Evaluate
□	Elaborate the constitution of the National Company Law Tribunal.	Create

4. Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Company Law – I	20
2	Company Law – II	20
3	Insolvency and Bankruptcy code (Amendment) Act, 2021.	15
4	National Company Law Tribunal.	05
Total		60

5	Detailed Syllabus	
	Business Law (Company Law) – III	
Sr. No.	Modules / Units	No. of Lectures
1	Company Law – I	20
	<ul style="list-style-type: none"> • Definitions (section 2 of Company Act 2013) • Incorporation of companies (Section 3 to Section 22) • Prospectus & Allotment of Securities (Sections 23 to section 41) • Private Placement (Section 42) • Share Capital and Debentures (Sections 43 to section 72) • Acceptance of deposits by companies (section 73 to section 76) 	
2	Company Law – II	20
	<ul style="list-style-type: none"> • Registration of charge (section 77 to section 87) • Management & Administration (section 88 to section 122) • Declaration & payment of dividend (section 123 to 127) • Accounts of companies (section 128 to 138) • Audit & Auditors (section 139 to 148) • Appointment & qualification of Directors (section 149 to 172) • Meeting of board & its powers (section 173 to 195) • Winding up (Section 270) 	
3	Insolvency and Bankruptcy code (Amendment) Act, 2021.	15
	<ul style="list-style-type: none"> • Introduction -Historical perspectives of insolvency, bankruptcy and the laws, Need, objects, applicability for the IBC 2021, Definition, Concepts of Insolvency and Bankruptcy, Debtors and Creditors. • Insolvency Resolution and Liquidation Process for Corporate Persons -Corporate insolvency resolution process, Liquidation process, Fast track insolvency resolution process. • Insolvency Resolution and Bankruptcy for Individuals and Partnership Firms- Insolvency resolution process, Bankruptcy order for individuals and partnership firms, Administration and distribution of the estate of the bankrupt. • Authorities under the Code- The Insolvency and Bankruptcy Board of India, Powers and functions of the Board, Insolvency professional agencies Information utilities, Inspection and investigation. • Adjudicating Authorities under the Code - Adjudicating Authorities for Corporate Persons, Adjudicating Authorities for Individuals and Partnership Firms, Appeals. • Offenses and Penalties for Contravention of the Provisions of the Code- By the debtor, By the creditor & By the bankrupt 	
4	National Company Law Tribunal.	05
	<ul style="list-style-type: none"> • Constitution of National Company Law Tribunal, Appellate Tribunal • Selection of members, terms of office, salary, Removal of members • Order of Tribunal, Powers of Tribunal, Appeal from orders of Tribunals 	

6	Reference Books
	Business Law (Company Law) – III
	<ul style="list-style-type: none"> • <i>Companies Act 2013</i> by Ravi Puliani, Bharat Publication • <i>Companies Act 2013</i> by Taxmann • <i>Taxmann's Companies Act with Rules / POCKET / PAPERBACK – Most authentic & comprehensive book covering amended, updated & annotated text of the Companies Act with 55+ Rules, etc. [2023]</i> by Taxmann • <i>Company Law (A Diagrammatic and Tabular Presentation)</i> by CA. Ashish K Agrawal • <i>COMPANY LAW (Companies Act, 2013) [Along with Insolvency and Bankruptcy Code, 2016] (Questions and Answers with Case Materials)</i> by Prof. Dr. Rega Surya Rao / Useful for Law • <i>Taxmann's Company Law (Paper 2 / Company Law) – Most updated & amended study material in simple/concise language covering subject matter in tabular format / CS</i>

Choice Based Credit Grading and Semester System (CBCGS)**S.Y.B.Com. Accounting & Finance Semester – III Syllabus****To be implemented from the Academic year 2023-2024****3. Core Courses (CC)****2. Research Methodology in Accounting and Finance**

1	Preamble of the Syllabus
	B.Com. in Accounting & Finance is an under graduate programme of the Department of B.Com. (Accounting & Finance), Changu Kana Thakur Arts, Commerce & Science College (Autonomous), New Panvel, Affiliated to University of Mumbai (MH). The Choice Based Credit, Grading, and Semester System to be implemented through this curriculum would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. The course is designed to guide students of B.Com accounting and finance to develop the research skill. It helps to analyze and enhance the ability of learners for better understanding, interpretation, analysis, and presentation of Research Report. The performance of the learners shall be evaluated into two components i.e. internal and external. The learner's Performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.

2	Objectives of the Syllabus
□	To enhance the abilities of the learners to develop the research skill.
□	To enable the learners to understand, develop and apply the techniques of the research design for various researches.
□	To analyze and enhance the ability of learners for better understanding, interpretation, analysis, and presentation of Research Report.

3	Course Outcomes	Bloom Taxonomy
	Students will able to :	
□	Describe various aspects of research methodology	Understand
□	Design the research in research methodology in accounting and finance	Create
□	Analyze the data collected & process for drawing conclusion	Analyse
□	Apply various statistical tools in research	Apply
□	Develop research report writing skill	Create

4. Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Research & Research Design	15
2	Data Collection and Processing	10
3	Statistical Analysis	15
4	Testing of Hypothesis	10
5	Interpretation and Report Writing	10
Total		60

5	Detailed Syllabus	
	Research Methodology in Accounting and Finance	
Sr. No.	Modules / Units	No. of Lectures
1	Introduction to Research & Research Design	15
	<ul style="list-style-type: none"> • Introduction and meaning of research, Objectives of research, Features and Importance of research in Accounting and Finance, Objectives and Types of research - Basic, Applied, Descriptive, Analytical and Empirical Research. • Formulation of the research problem: Meaning and Selection • Review of Literature • Meaning of Introduction, Need, and Good research design. • Hypothesis: Formulation, Sources, Importance and Types • Different Research designs 	
2	Data Collection and Processing	10
	<ul style="list-style-type: none"> • Data Collection: Introduction and meaning, types of data • Primary data: Observation, Experimentation, Interview, Schedules, Survey, Questionnaires, Limitations of Primary data • Secondary data: Sources and Limitations • Factors affecting the choice of method of data collection. • Sampling: Significance, Methods, Factors determining sample size • Data Presentation: Significance in Research, Stages in Data Processing: Editing, • Coding, Classification, Tabulation, Graphic Presentation • Use of computer and internet in data collection and processing 	
3	Statistical Analysis	15
	<ul style="list-style-type: none"> • Statistical Analysis: Tools and Techniques, Measures of Central Tendency, • Measures of Dispersion, Correlation Analysis and Regression Analysis. • Probability 	
4	Testing of Hypothesis	10
	<ul style="list-style-type: none"> • Parametric Test-t test, f test, z test • Non-Parametric Test -Chi square test, ANOVA, Factor Analysis 	
5	Interpretation and Report Writing	10
	<ul style="list-style-type: none"> • Meaning and techniques of interpretation, Research Report Writing: Importance, Essentials, Structure/ layout, Types • References & Citation Method • Ethical Norms in Research • Footnotes and Bibliography 	

6	Reference Books
	Research Methodology in Accounting and Finance
	<ul style="list-style-type: none"> • <i>Research Methods in Accounting</i>, Malcolm Smith • <i>Research Methods and Methodology in Finance and Accounting</i>, by Viv Beattie and Bob Ryan • <i>Research Methodology</i> by C.R. Kothari and Gaurav Garg • <i>Research Methods and Methodology in Finance and Accounting</i> by Bob Ryan, Michael Theobald, et al. • <i>Essentials of Research Methodology</i> by S. N Senthil Ramalingam, A. Thangamani; Kumar

Choice Based Credit Grading and Semester System (CBCGS)**S.Y.B.Com. Accounting & Finance Syllabus****To be implemented from the Academic year 2023-2024****Semester IV**

Sr.No.	Course Code	Course Title	Credits	L / Week
1	UAF4FA4	Financial Accounting (Special Accounting Areas) – IV	3	4
2	UAF4CA2	Cost & Management Accounting -II	3	4
3	UAF4TX2	Taxation - II (Direct Taxes Paper- II)	3	4
4	UAF4AUD	Auditing	3	4
5	UAF4IT2	Information Technology - II	3	4
6	UAF4EC2	Business Economics- II (Macro Economics)	3	4
	Any one course from the following list of the courses			
7	UAF4FCIV	Foundation Course – IV	2	4
	UAF4NS4	Foundation Course in NSS – IV		
	UAF4NC4	Foundation Course in NCC – IV		
	UAF4PE4	Foundation Course in Physical Education – IV		
8	UAF4DVT	Data Visualization with Power BI & Tableau	2	2
		Total Credits	22	

Choice Based Credit Grading and Semester System (CBCGS)**S.Y.B.Com. Accounting & Finance Semester – IV Syllabus****To be implemented from the Academic year 2023-2024*****1. Elective Courses (EC)*****1. Financial Accounting
(Special Accounting Areas) – IV**

1	Preamble of the Syllabus
	B.Com. in Accounting & Finance is an under graduate programme of the Department of B.Com. (Accounting & Finance), Changu Kana Thakur Arts, Commerce & Science College (Autonomous), New Panvel, Affiliated to University of Mumbai (MH). The Choice Based Credit, Grading, and Semester System to be implemented through this curriculum would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. The course is designed to guide students of B.Com accounting and finance with the pattern of the final account of the company. It helps to provide the knowledge of redemption of preference shares and debentures. It also helps to understand the conversion of foreign currency into reporting currency. The performance of the learners shall be evaluated into two components i.e., internal and external. The learner's performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.

2	Objectives of the Syllabus
□	To describe the pattern of the final account of the company
□	It provides the knowledge of redemption of preference shares and debentures
□	To differentiate profit and loss prior to incorporation and post-incorporation
□	To understand the conversion of foreign currency into reporting currency

3	Course Outcomes	Bloom Taxonomy
	Students will able to	
□	Describe various provisions of redemption of preference shares as per Companies Act, 2013.	Understand
□	Determines the underwriter's liability.	Apply
□	Calculate the maximum permissible limit of buyback of equity shares.	Apply
□	Determine different methods of redemption of debentures as per the provisions of the Companies Act, 2013.	Evaluate
□	Build the final accounts of companies	Create

4. Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Underwriting of shares & debentures	10
2	Redemption of Preference Shares	12
3	Buy Back of Shares	10
4	Redemption of Debentures	12
5	Preparation of Final Accounts of Companies	16
Total		60

5	Detailed Syllabus	
	Financial Accounting (Special Accounting Areas) – IV	
Sr. No.	Modules / Units	No. of Lectures
1	Underwriting of shares & debentures	10
	<ul style="list-style-type: none"> • Introduction, Underwriting, Underwriting Commission • Provision of Companies Act with respect to Payment of underwriting commission Underwriters, Sub-Underwriters, Brokers and Manager to issues, Types of underwriting, Abatement Clause Marked, Unmarked and Firm-underwriting applications, Liability of the underwriters in respect of underwriting contracts • Practical problems 	
2	Redemption of Preference Shares	12
	<ul style="list-style-type: none"> • Provision of the Companies Act for redemption of Preference Shares (Sec 55 of the Companies Act, 2013), Companies (Share and Debentures) Rules., Methods of Redemption of fully paid-up Preference Shares as per Companies Act, 2013: The proceed of a fresh issue of shares, the capitalization of undistributed profits and a combination of both, calculation of minimum fresh issue to provide the fund for redemption, (Question on entries and/or Balance Sheet) <p>Note: Companies governed by Section 133 of the Companies Act, 2013 and comply with the accounting standards prescribed for them. Hence, the balance in security premium account not to be utilized for the premium payable on redemption of preference shares.</p>	
3	Buy Back of Shares	10
	<ul style="list-style-type: none"> • Company Law / Legal provisions (including related restrictions, power, transfer to capital redemption reserve account and prohibitions). Compliance of conditions including sources, maximum limits and debt-equity ratio. Cancellation of Shares Bought back(Excluding Buy Back of minority shareholding) - Practical problems 	
4	Redemption of Debentures	12
	<ul style="list-style-type: none"> • Introduction: Provisions of Section 71 (1) and (4) of the Companies Act, 2013, Creation and investment of DRR including The Companies (Share Capital and Debentures) Rules, 2014, the methods of writing-off discount/loss on issue of debentures; Terms of issue of debentures • Methods of redemption of debentures: By payment in lump sum and by payment in installments (excluding from by purchase in open market), Conversion. (Question on entries. ledgers and/or Balance Sheet and /or redemption of debentures) 	
5	Preparation of Final Accounts of Companies	16
	<ul style="list-style-type: none"> • Relevant provisions of Companies Act related to the preparation of Final Account (excluding cash flow statement) • Preparation of financial statements as per Companies Act. • AS 1 in relation to final accounts of companies (disclosure of accounting policies) 	

6	Reference Books
	Financial Accounting – IV
	<ul style="list-style-type: none"> • <i>Introduction to Accountancy</i> by T.S. Grewal, S. Chand and Company (P) Ltd., New Delhi • <i>Advance Accounts</i> by Shukla and Grewal, S. Chand and Company (P) Ltd., New Delhi • <i>Advanced Accountancy</i> by R.L Gupta and M. Radhaswamy, S. Chand and Company (P) Ltd., New Delhi • <i>Modern Accountancy</i> by Mukherjee and Hanif, Tata Mc. Grow Hill and Co. Ltd., Mumbai • <i>Financial Accounting</i> by Lesile Chandwichk, Pentice Hall of India Adin Bakley (P) Ltd., New Delhi • <i>Financial Accounting for Management</i> by Dr. Dinesh Harsalekar, Multi-Tech. Publishing Co. Ltd., Mumbai • <i>Financial Accounting</i> by P.C. Tulsian, Pearson Publications, New Delhi • <i>Accounting Principles</i> by R.N. Anthony and J.S. Reece, Richard Irwin, Inc • <i>Financial Accounting</i> by Monga, J.R. Ahuja, Girish Ahuja and Ashok Shehgal, Mayur Paper Back, Noida • <i>Financial Accounting</i> by Williams, Tata Mc. Grow Hill and Co. Ltd., Mumbai • <i>Financial Accounting</i> by V. Rajasekaran, Pearson Publications, New Delhi • <i>Introduction to Financial Accounting</i> by Horngren, Pearson Publications, New Delhi • <i>Financial Accounting</i> by M. Mukherjee and M. Hanif, Tata McGraw Hill Education Pvt. Ltd., New Delhi • <i>Financial Accounting a Managerial Perspective</i>, Varadraj B. Bapat, Mehul Raithatha, Tata McGraw Hill Education Pvt. Ltd., New Delhi <i>Management Accounting (introduction</i>

Choice Based Credit Grading and Semester System (CBCGS)**S.Y.B.Com. Accounting & Finance Semester – IV Syllabus****To be implemented from the Academic year 2023-2024*****1. Elective Courses (EC)*****2. Cost & Management Accounting– II**

1	Preamble of the syllabus
	B.Com. in Accounting & Finance is an under graduate programme of the Department of B.Com. (Accounting & Finance), Changu Kana Thakur Arts, Commerce & Science College (Autonomous), New Panvel, Affiliated to University of Mumbai (MH). The Choice Based Credit, Grading, and Semester System to be implemented through this curriculum would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. The students pursuing this course would have to develop an understanding of various aspects of Accounting & Finance. It helps for the ascertainment of cost, fixation of selling price, proper recording and presentation of cost data to management for measuring efficiency and for cost control and cost reduction, ascertaining the profit of each activity, assisting management in decision making. The performance of the learners shall be evaluated into two components i.e. internal and external. The learner's performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.

2.	Objectives of the course
□	To make students aware of cost structures & elements
□	To understand various techniques & methods of cost accounting
□	To understand various aspects of material control & wastages
□	To understand the reasons for the difference in two sets of books
□	To let them know about the cost sheet & tender price
□	To make them aware of the different process of costing

3.	Course Outcome	Bloom Taxonomy
	Students will able to	
□	Describe process cost account and treatment of Normal loss, Abnormal loss and gain in the preparation of process cost accounting.	Understand
□	Identify total cost of join product and by product apply method of apportionment of join cost to join product and by product	Apply
□	Classify different types of cost and determine the total cost of the product.	Apply
□	Compute notional or estimates profit for contract	Apply
□	Ascertain the Unit wise, Job wise, Batch wise Cost of the product	Analyze

4. Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Classification of Costs and Cost Sheet	10
2	Unit costing, Job Costing & batch costing	15
3	Contract Costing	15
4	Process Costing	10
5	Joint products & by-product costing	10
Total		60

5	Detailed Syllabus	
	Cost and Management Accounting – II	
Sr. No.	Modules / Units	No. of Lectures
1	Classification of Costs and Cost Sheet	10
	<ul style="list-style-type: none"> • Classification of costs, Cost of Sales, Cost Centre, Cost Unit, Profit Centre and • Investment Centre • Cost Sheet, Total Costs and Unit Costs, Different Costs for different purpose Problems on the preparation of cost sheet& Estimated Cost sheet • CAS 11 Administrative O/H • CAS 15 Selling & Dis. O/H. • CAS 17 Interest & Financing Charges 	
2	Unit costing, Job Costing & batch costing	15
	<ul style="list-style-type: none"> • Unit Costing – introduction, Unit costing method, Prepare & calculate cost under Unit costing method • Job Costing-Introduction, accounting entries for cost elements, calculate cost per job • Batch costing –introduction, batch costing methods, accounting entries for cost elements, calculate the cost for a batch • Practical Problems 	.
3	Contract Costing	15
	<ul style="list-style-type: none"> • Meaning of Contract Costing, Recording of contract cost, Progress payments, Retention money, Contract accounts, Accounting for material, Accounting for Tax deducted at source by the contractee, Accounting for plant used in a contract, treatment of profit on incomplete contracts, Contract profit, and Balance sheet entries. Escalation clause • Practical Problems 	
4	Process Costing	10
	<ul style="list-style-type: none"> • Meaning of Process Costing, Costing procedure, Treatment of Normal loss, abnormal gains, and losses. • Excluding Equivalent units, Inter-process profit • Practical Problems Process Costing 	
5	Joint products & by-product costing	10
	<ul style="list-style-type: none"> • Meaning of Joint products & by-product costing • Differentiate between Joint products & by-product costing • Methods of apportionment of joint costs to joint products and to by-products • Treatment of by-products cost in cost accounting • Practical Problems • CAS 19 : Joint Cost 	

6	References Books
	Cost and Management Accounting - II
	<ul style="list-style-type: none"> • <i>Lectures on Costing by Swaminathan: S. Chand and Company (P) Ltd., New Delhi</i> • <i>Cost Accounting by C.S. Rayudu, Tata Mc. Grow Hill and Co. Ltd., Mumbai</i> • <i>Cost Accounting by JawaharLal and SeemaSrivastava, Tata Mc. Grow Hill and Co. Ltd., Mumbai</i> • <i>Cost Accounting by Ravi M. Kishore, Taxmann Ltd., New Delhi</i> • <i>Principles and Practices of Cost Accounting by N.K. Prasad, Book Syndicate Pvt. Ltd., Calcutta</i> • <i>Cost Accounting Theory and Practice by B.K. Bhar, Tata Mc. Grow Hill and Co. Ltd., Mumbai</i> • <i>Cost Accounting Principles and Practice by M.N. Arora, Vikas Publishing House Pvt. Ltd., New Delhi</i> • <i>Advanced Cost and Management Accounting: Problems and Solutions by V.K. Saxena and C.D. Vashist, S. Chand and Company (P) Ltd., New Delhi</i> • <i>Cost Accounting by S.P. Jain and K.L. Narang, Kalyani Publishers, Ludhiana</i> • <i>Modern Cost and Management Accounting by M. Hanif, Tata McGraw Hill Education Pvt. Ltd., New Delhi</i>

Choice Based Credit Grading and Semester System (CBCGS)**S.Y.B.Com. Accounting & Finance Semester – IV Syllabus****To be implemented from the Academic year 2023-2024*****1. Elective Courses (EC)*****4. Taxation - II (Direct Taxes- II)**

1	Preamble of the Syllabus
	<p>B.Com. in Accounting & Finance is an under graduate programme of the Department of B.Com. (Accounting & Finance), Changu Kana Thakur Arts, Commerce & Science College (Autonomous), New Panvel, Affiliated to University of Mumbai (MH). The Choice Based Credit, Grading, and Semester System to be implemented through this curriculum would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. The course is designed to guide students of B.Com accounting and finance with the knowledge of Indian taxation law. It helps to provide a brief idea about the filing of the income tax returns. It also helps to acquaint knowledge of PAN, TDS and other different aspects of direct taxes. The performance of the learners shall be evaluated into two components i.e., internal and external. The learner's performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.</p>

2	Objectives of the Syllabus
□	To study Clubbing of Income from assets transferred to a person for the benefit of spouse, income from assets transferred to a person for the benefit of a spouse attracts the provisions on clubbing of income.
□	To learn various provisions under heads of income for enabling assessee to carry forward & set-off in the previous year as well as in the future. Learn limitations for a number of years, for which losses can be carried forward and set-off.
□	To learn with these objectives, an investor needs to generate income from his investments
□	To learn basic concept & objective of Tax Deducted at Source is to collect taxes at the very source of income.

3	Course Outcomes	Bloom Taxonomy
	Students will able to	
□	Describe the various provisions of clubbing of income and set off and carry forward losses as per income tax act.	Understand
□	Compute taxable income of partnership firm	Apply
□	Demonstrate the knowledge of return of income and self-assessments	Apply
□	Examine and compute TDs and interest payable as per provision of income tax	Analyze
□	Assess the file of income tax return for individual/HUF and partnership firms.	Evaluate
□	Estimate the advance tax liability of the assessee	Create

4. Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Clubbing of Income - Section 60 to 65	08
2	Set Off & Carry Forward of Losses – Section 70 to 74)	08
3	Computation of Income of Partnership Firm in Relation to Sec: 40(b) & Tax Thereon With Applicable Rate of Tax	08
4	Return of Income & Self-Assessment	06
5	Tax Deduction at Source & Tax collected at Source	10
6	Advance Tax (Section 207 to section 211 and 219)	06
7	Interest & Penalties	08
8	Practical Income-Tax	06
Total		60

5	Detailed Syllabus	
	Taxation – II (Direct Taxes – II)	
Sr. No.	Modules/ Units	No. of Lectures
1	Clubbing of Income - Section 60 to 65	8
	Section 60 : Transfer of Income without transfer of Assets Section 61 : Revocable transfer of Assets Section 62 : Transfer irrevocable for a specified period Section 63 : Revocable transfer Section 64 (1) (ii) : Income of Individual to include Income of Spouse Section 65 : Liability of the transferee in respect of clubbed Income	
2	Set Off & Carry Forward of Losses – Section 70 to 74)	8
	Section 70 : Set-off of loss from one source against income from other source under the same head of Income (Inter Head Adjustments) Section 71 : Set-off of loss from one head against Income from another head (Inter Head Adjustments) Section 72 : Carry Forward & Set-off of Business Losses Section 73 : Set off and carry forward and set off of speculation Business Loss Section 74 : Carry forward of losses under the head 'Capital gains'.	
3	Computation of Income of Partnership Firm in Relation to Sec: 40(b) & Tax Thereon With Applicable Rate of Tax	8
	Section 40b: Interest & Salary paid to Partners by Partnership Firm, Meaning of Partner, Working Partner, and Partnership, Computation of Firm's Book Profits, Computation of Firm's Total Income and Tax Liability, Computation of Total Income of Partners.	
4	Return of Income & Self-Assessment	6
	Compulsory filing of Return of Income [Sec. 139(1)] Return of Loss [Sec. 139(3)] Belated Return [Sec. 139(4)] Revised Return [Sec. 139(5)] Updated Return [Sec. 139(8A)] Defective Return [Sec. 139(9)] Person authorized to verify Return of Income [Sec. 140] Self-Assessment [Sec. 140 A] Tax on Updated Return [Sec. 140 B]	
5	Tax Deduction at Source & Tax collected at Source	10
	Basic Aspects of Deduction of Taxes at Source Sec. 191 – Direct payment; Sec. 192 – TDS on Salary; Sec. 194A – TDS on Interest; Sec. 194C – TDS on Contractor; Sec. 194H – TDS on Commission; Sec. 194I – TDS on Rent; Sec. 194J – TDS on Professional Fees; Sec. -194N – TDS	

	on cash withdrawal; Sec. 195 A – Income payable net of tax; Sec. 197 Certificate of Tax at lower Rate; Sec. 197A Certificate of Tax at Nil Rate : Sec. 200 – Duty of person deducting tax (Rule 30 & 31A) Sec. 201 – consequence of failure to deduct or pay Sec. 202 – deduction only one mode of recovery Sec. 203 – Certificate of tax deducted Sec. 203AA- Furnishing of statement of tax deducted Sec. 204 – Person responsible for paying TDS Sec 206- Tax collected at Source	
6	Advance Tax (Section 207 to section 211 and 219)	6
7	Interest & Penalties	8
	Interest Payable - (Sec 234A, Sec. 234B, Sec. 234C, Sec. 234D, Sec. 234E & Sec. 234F) Penalty – (Sec. 270A, Sec. 271C, Sec. 271CA & Sec. 273)	
8	Practical Income-Tax	6
	PAN, TAN, Payment of Income tax & TDS Filing of Income-Tax return & TDS Return Form 12BA, Form No. 16 & Form No. 16A	

Note:

1. Relevant Law / Statute in force on 1st April immediately preceding commencement of Academic Year is applicable for ensuing examinations after relevant year.
2. The syllabus is restricted to study of particular section/s, specifically mentioned rules and notifications only.

6	Reference Books
	Taxation - II
	<ul style="list-style-type: none"> • <i>Direct Taxes Law & Practice</i> by V.K. Singhania – Taxman • <i>Systematic Approach to Direct Tax</i> by Ahuja & Gupta - Bharat Law House • <i>Income Tax Ready Reckoner</i> by Dr .V.K. Singhania – Taxman • <i>Direct Tax Laws</i> by T.N. Manoharan - Snow White • <i>Taxmann's Direct Taxes Ready Reckoner (DTRR)</i> / A.Y. 2023-24 & 2024-25 – <i>Illustrative Ready Referencer on Income-tax with Focused Analysis / Break-even Tables for Alternative Tax Regime</i> / 47th Edition • <i>Taxmann's Direct Taxes Law & Practice</i> / AY 2023-24 – <i>The go-to-guide for students & professionals for over 40 years, equips the reader with the ability to understand & apply the law</i> / 68th Edition by Dr. Vinod Singhania and Dr. Kapil Singhania / 1 February 2023

Choice Based Credit Grading and Semester System (CBCGS)**S.Y.B.Com. Accounting & Finance Semester – IV Syllabus****To be implemented from the Academic year 2023-2024*****1. Elective Courses (EC)******4. Wealth Management***

1	Preamble of the syllabus
	B.Com. in Accounting & Finance is an under graduate programme of the Department of B.Com. (Accounting & Finance), Changu Kana Thakur Arts, Commerce & Science College (Autonomous), New Panvel, Affiliated to University of Mumbai (MH). The Choice Based Credit, Grading, and Semester System to be implemented through this curriculum would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. The course is designed to guide students of B.Com accounting and finance with the knowledge developing learners towards basic fundamentals in the area of Wealth management. Learners who will pursue this course will be able to acquire the knowledge about various markets, Code of conduct relating to Portfolio construction, also an insight into dematerialization & re-materialization of securities, valuation of bonds & shares. The performance of the learners shall be evaluated into two components i.e. internal and external. The learner's performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.

2	Objectives of the course
▮	To understand the basic concept of wealth management, structure of capital market and role of wealth management
▮	To calculate various numerical and statistical calculations and valuations.
▮	To acquire the knowledge of wealth management process and analysis different financial products for investments
▮	To understand the process of PAN, KYC and account opening of non-resident

3	Course outcomes	Bloom Taxonomy
▮	Students will be able to:	
▮	define the basic concept of wealth management, summarize structure of capital market and describe the role of wealth management	Remember
▮	solve various numerical calculations, share valuation and bond valuations	Apply
▮	explain wealth management process and portfolio theories	Analyse
▮	describe documentation procedure of Operational aspects of wealth management	Understand

4. Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Wealth Management	10
2	Important Numerical Concepts	20
3	Wealth Management Process	15
4	Operational aspects of wealth management	15
Total		60

5	Detailed Syllabus	
	Wealth Management	
Sr. No.	Modules / Units	No. of Lectures
1	Introduction to Wealth Management	10
	<ul style="list-style-type: none"> • Definition of wealth management & its evolution • Wealth management process & phases • Nature & structure of Primary & Secondary capital market • Comparison between various options for investing & risk & return analysis • Role of wealth manager: Obligations & responsibilities of wealth manager, Qualification, Capital requirement, certification to become investment advisor, Code of conduct & ethics in providing financial advice 	
2	Important Numerical Concepts	20
	<ul style="list-style-type: none"> • Simple Interest, Compound Interest, Discounted Cash flows & installment calculation • Correlation, Standard deviation, Co-variance & Beta of portfolio • Share Valuation • Bond Valuation 	
3	Wealth Management Process	15
	<ul style="list-style-type: none"> • Developing a wealth management plan • Essentials of a comprehensive wealth plan • Analysis of different financial products for investments • Risk profiling of the client • Portfolio Construction • Modern Portfolio & Theory of constructing a portfolio 	
4	Operational aspects of wealth management	15
	<ul style="list-style-type: none"> • Types of investors • PAN & KYC Process • Dematerialization & re-materialization of securities • Power of Attorney • Account opening Process of Non-resident • Documentation of financial advisor 	

6	Reference Books
	Wealth Management
	<ul style="list-style-type: none"> • <i>Wealth engine: Indian Financial Planning & Wealth Management Handbook</i> by Sankaran S • <i>Wealth Management</i>, By N/A Dun & Bradstreet • <i>Retail Banking & wealth management 2023</i> by IIBF • <i>Financial Planning & Wealth Management: Concepts and Practice</i> by Joydeep Sen • <i>Wealth Management: A Guide for Affluent and Middle Income Classes</i> by Joydeep Sen

Choice Based Credit Grading and Semester System (CBCGS)**S.Y.B.Com. Accounting & Finance Semester – IV Syllabus****To be implemented from the Academic year 2023-2024*****1. Elective Courses (EC)******Principles & Practice of Insurance***

1	Preamble of the syllabus
	B.Com. in Accounting & Finance is an under graduate programme of the Department of B.Com. (Accounting & Finance), Changu Kana Thakur Arts, Commerce & Science College (Autonomous), New Panvel, Affiliated to University of Mumbai (MH). The Choice Based Credit, Grading, and Semester System to be implemented through this curriculum would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. The course is designed to guide students of B.Com accounting and finance with the knowledge developing learners towards basic fundamentals in the area of Insurance. Learners who will pursue this course will be able to acquire the knowledge about Evolution, Principles of Insurance, Insurance business environment and understand life insurance, health insurance and general insurance. The performance of the learners shall be evaluated into two components i.e., internal and external. The learner's performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.

2	Objectives of the course
□	To understand the various aspects of insurance and its evolution
□	To acquire knowledge regarding claim and settlement procedures and insurance business environment in India
□	To understand the aspects of life insurance and health insurance
□	To acquire knowledge of various general insurance policy

3	Course outcomes	Bloom Taxonomy
	Students will able to	
□	explain various aspects of insurance policies and its evolution	Understand
□	make use of settlement procedure of insurance policy for its claim	Apply
□	describe various aspects of life insurance and health insurance	Remember
□	classify various general insurance policy	Analyze

4. Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Insurance	15
2	Insurance Business Environment in India	15
3	Life insurance & Health Insurance	15
4	General Insurance	15
Total		60

5	Detailed Syllabus	
	Principles & Practice of Insurance	
Sr. No.	Modules / Units	No. of Lectures
1	Introduction to Insurance	15
	<ul style="list-style-type: none"> • Understanding Risk • Kinds of business risks • Need and Scope of insurance • Evolution of insurance • Principles of insurance • Functions and Characteristics of Insurance • Rights and responsibilities of Insurer and Insured • Types of insurance and policies • Risk and Return relationship 	
2	Insurance Business Environment in India	15
	<ul style="list-style-type: none"> • Growth of Insurance Business • Actuarial Role • Claim and Settlement Procedures • Insurance Regulations & Guidelines • Role of IRDA. • Powers & functions of IRDA • Governance & Compliances 	
3	Life insurance & Health Insurance	15
	<ul style="list-style-type: none"> • Principles in Life Insurance Contract • Representation • Assignment and Nomination • Title and Claims • Concept of Trusts in Life Policy • Role and Function of Life Insurance Companies • Policy and documentation of Life Insurance Products • Health insurance – mediclaim – Calculation of Human Life Value / Belth Method CPT 	
4	General Insurance	15
	<ul style="list-style-type: none"> • Principles in General Insurance Contracts • Structure of the Policy • Insurance Documentation • Claims Procedures • Property Insurance • Marine Insurance • Motor Insurance • Rural and Agriculture Insurance 	

6	Reference Books
	Principles & Practice of Insurance
	<ul style="list-style-type: none"> • <i>General Principles of Law of Insurance</i> by R.K. Choudhury • <i>Corporate Insurance Management – A Primer – Handy Reference book for Insurance Professionals</i> by Sanjiv Achut Shanbhag • <i>General Insurance</i> by Dr. L P Gupta • <i>Insurance, Principles and Practices</i> by Robert Riegel and Henry James Loman • <i>The Fundamentals of Insurance : Theories, Principles and Practices</i> by Hargovind Dayal

Choice Based Credit Grading and Semester System (CBCGS)**S.Y.B.Com. Accounting & Finance Semester – IV Syllabus****To be implemented from the Academic year 2023-2024*****2A. Ability Enhancement Courses (AEC)*****1. Information Technology - II**

1	Preamble of the Syllabus
	B.Com. in Accounting & Finance is an under-graduation course of Department of B.Com. (Accounting & Finance), Changu Kana Thakur Arts, Commerce & Science College, New Panvel. Affiliated to University of Mumbai (MH). The course is designed to guide students of B.Com accounting and finance to understand the concept of Data Analytics, Analyze the data with MS Excel, study computerized accounting system software and other emerging technologies. The performance of the learners shall be evaluated into two components i.e., internal and external. The learner's performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.

2	Objectives of the Syllabus
□	To understand the basic concepts of Data Analytics
□	To analyze the data using MS Excel
□	To study computerized accounting system software
□	To understand emerging technologies of Data Analytics

3	Course Outcomes	Bloom Taxonomy
	Students will able to:	
□	discuss various emerging technologies of data analytics	Remember
□	describe the basic concepts of Data Analytics	Understand
□	analyze the Data with use of MS Excel	Analyze
□	make use of accounting software for recording the accounting transactions.	Apply

4. Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Data Analytics	15
2	Data Analytics With use of MS Excel	15
3	Computerized accounting system	15
4	Other emerging technologies	15
Total		60

5	Detailed Syllabus	
	Information Technology - II	
Sr. No.	Modules / Units	No. of Lectures
1	Introduction to Data Analytics	15
	<ul style="list-style-type: none"> • Data Analytics Overview • Importance of Data Analytics • Types of Data Analytics – Descriptive Analytics, Diagnostic Analytics, Predictive Analytics Prescriptive Analytics • Benefits of Data Analytics • Data Visualization for decision Making • Types of data 	
2	Data Analytics With use of MS Excel	15
	<ul style="list-style-type: none"> • Basic of Excel • Formulas and Functions • Data Visualization • SmartArt and Organisation Chart • Putting Data with Perspective with Pivots • Complex data Analysis using Tools Pak • Mail Merge Using Excel • Macro in Excel 	
3	Computerized accounting system	15
	<ul style="list-style-type: none"> • Introduction and meaning, Uses and Benefits, Role Need and requirements of the computerized accounting • Basic requirements of computerized accounting system • Limitations of computerized accounting system • Understand the development and design of a computerized accounting system; determining how the accounting data will be processed, i.e. what accounts and books are needed and what is the desired output i.e. financial reports and other reports. • Accounting Software: Introduction and meaning, Advantages of accounting software, Uses of Accounting software, Various accounting software • Accounting software – creation of company, Ledgers, , voucher entry, Accounting reports 	
4	Other emerging technologies	15
	<ul style="list-style-type: none"> • Data Sciences • Bis Data • Data Mining • Data Warehousing • Machine Learning • Artificial intelligence • Machine Learning Algorithm • Data Visualization 	

6	Reference Books
	Information Technology - II
	<ul style="list-style-type: none"> • <i>Fundamentals of Computers – Rajaram V – Prentice Hall</i> • <i>Computer today (3rd edition) – Sanders, Donald H – McGraw Hill</i> • <i>Computers and Common sense – Hunt, Roger and Shelly John – Prentice Hall</i> • <i>Computers – Subramaniam N – Wheeler • Introduction to Computers – Xavier C. – New Age</i> • <i>Computer in Business – Sanders D – McGraw Hill</i> • <i>Computers and Information Management – S C Bhatnagar & V Ramant – Prentice Hall</i> • <i>Internet for Business – Brummer, Lavrej – Cambridge</i> • <i>E-mail for Everyone – Leon Alexis & leon – Methews</i> • <i>Basic Computer Programmes for Business – Sternberg C – New Jersey Hayden</i>

Choice Based Credit Grading and Semester System (CBCGS)**S.Y.B.Com. Accounting & Finance Semester – IV Syllabus****To be implemented from the Academic year 2023-2024*****2B. Skill Enhancement Courses (SEC)*****1. Foundation Course in Management
(Introduction to Management) - IV**

1	Preamble of the Syllabus
	B.Com. in Accounting & Finance is an under graduate programme of the Department of B.Com. (Accounting & Finance), Changu Kana Thakur Arts, Commerce & Science College (Autonomous), New Panvel, Affiliated to University of Mumbai (MH). The Choice Based Credit, Grading, and Semester System to be implemented through this curriculum would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. The course is designed to guide students of B.Com accounting and finance to understand staffing, directing and controlling. It helps to understand basic management concepts. The performance of the learners shall be evaluated into two components i.e. internal and external. The learner's performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.

2	Objectives of the Syllabus
□	Students will be able to understand basic management concepts
□	Students will be able to identify the term planning and organizing
□	To understand staffing, directing and controlling

3	Course Outcomes	Bloom Taxonomy
□	Students will able to :	
□	describe basic management concepts	Remember
□	apply the concept of planning and organizing	Apply
□	classify the procedure of staffing	Analyze
□	elaborate importance and principles of directing, motivation, coordination, and controlling	Create

4. Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Basic Management Concepts	10
2	Planning	20
3	Organising	10
4	Staffing	05
5	Directing and Controlling	10
Total		60

5.	Detailed Syllabus	
	Foundation Course in Management (Introduction to Management) - IV	
Sr. No.	Modules / Units	No of Lectures
1	Introduction to Basic Management Concepts	10
	<ul style="list-style-type: none"> • Introduction to Management, Definition of Management • Nature of Management • Objectives of Management • Administration vs Management • Levels of Management • Principles of Management 	
2	Planning	20
	<ul style="list-style-type: none"> • Definition and Importance of Planning • Process of Planning • Limitations of Planning • Features of Sound Planning • Features and process of decision making 	
3	Organising	10
	<ul style="list-style-type: none"> • Definition, nature and significance • Process of organisation • Principles of organisation • Formal and Informal organisation - features, advantages and disadvantages • Centralization and decentralization – factors, merits and demerits • Departmentation and Delegation 	
4	Staffing	10
	<ul style="list-style-type: none"> • Meaning, Importance of Staffing • Recruitment and its sources • Selection procedure • Distinction between Recruitment and Selection • Employment tests and types of Interviews 	
5	Directing and Controlling	10
	<ul style="list-style-type: none"> • Meaning and Importance of directing • Principles of Directing • Leadership traits and Styles • Motivation – Importance and Factors • Co-ordination – Meaning, features and Importance • Meaning and steps in controlling • Essentials of a good control system 	

6	Reference Books
	Foundation Course in Management- IV
	<ul style="list-style-type: none"> • <i>Essentials of Management</i> by Koontz H & W published by McGraw Hill • <i>Principles of Management</i> by Ramaswamy published by Himalaya • <i>Management Concept and Practice</i> by Hannagain T published by McMillan • <i>Basic Managerial Skills for All</i> by McGrath E.H published by Prentice Hall of India • <i>Management – Text and Cases</i> by VSP Rao published by Excel Books • <i>Essentials of Management</i> by Massie Joseph published by Prentice Hall of India • <i>Management: Principles and Guidelines</i> by Thomas Duening & John Ivancevich published by Biztantra • <i>Management Concepts and Strategies</i> by J S Chandran published by Vikas Publishing House • <i>Principles of Management</i> by Tripathy P C published by Tata McGraw Hill • <i>Principles of Management: Theory and Practice</i> by Sarangi S K published by V M P Publishers

Choice Based Credit Grading and Semester System (CBCGS)**S.Y.B.Com. Accounting & Finance Semester – IV Syllabus****To be implemented from the Academic year 2023-2024*****3b. Skill Enhancement Courses (EC)*****2. Data Visualization with Power BI & Tableau**

1	Preamble of the Syllabus
	B.Com. in Accounting & Finance is an under-graduation course of Department of B.Com. (Accounting & Finance), Changu Kana Thakur Arts, Commerce & Science College, New Panvel. Affiliated to University of Mumbai (MH). The course is designed to guide students of B.Com accounting and finance with the knowledge of Auditing, where students will be getting to learn about various audit opinions that auditor is supposed to express, how effective computerized the environment can be for audit tools & also about the professional ethics that are to be followed by the auditor while carrying the investigation with due diligence. The performance of the learners shall be evaluated into two components i.e., internal and external. The learner's Performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.

2	Objectives of the Syllabus
□	To understand the basic concepts, need, importance, history of Power BI.
□	To visualize the data, creation of dashboard and reports with the use of Power BI.
□	To understand the basic concepts, overview and architecture of Tableau.
□	To visualize the data and creation of dashboard with the use of Tableau.

3	Course Outcomes	Bloom Taxonomy
	Students will able to:	
□	explain the concepts, importance and history of Power BI.	Understand
□	explain the concepts, overview and architecture of Tableau.	Understand
□	design the dashboard and reports with the use of Power BI.	Create
□	create the dashboard and reports with the use of Tableau.	Create

4. Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Data Visualization with Power BI	15
2	Data Visualization with Tableau	15
Total		30

5.	Detailed Syllabus	
	Data Visualization with Power BI & Tableau	
Sr. No.	Modules / Units	No of Lectures
1	Data Visualization with Power BI	15
	<ul style="list-style-type: none"> • Introduction of Power BI- Need Importance • Power BI – Advantages and Scalable Options • History – Power View, Power Query , Power Pivot • Power BI Data Source Library and DW files • Cloud Collaboration and Usage Scope • Business Analytics Tools, MS Cloud Tools • Power BI Installation and Cloud Account • Power BI O&A and Data Insights: Introductions to Power BI • Services Dashboards Vs. Reports Quick Insights, Creating Dashboards, Power Bi & O&A, Ask Questions of your Data, Power BI Embedded • Power BI Report Servers: Report Server Basics, Web Portal, Raw Level Security, Data Gateways, Scheduled and Refresh. 	
2	Data Visualization with Tableau	15
	<ul style="list-style-type: none"> • Introduction to Tableau : BI Concepts, What is Tableau ? Why Data Visualization? Unique Features Compared to Traditional BI Tools, Tableau Overview & Architecture, File type & Extension • Tableau Products: Desktop Server, Publisher, Publish Reader • Dashboard: Build Interactive Dashboards, Best practices for Crating Effective Dashboard, Creating A Dashboard and importing sheets, Interaction Exploring Dashboard Actions, Use of Running Actions , Using Dashboard Actin, How To Share Your Reports, Exporting Your Work. 	

6	Reference Books
	Data Visualization with Power BI & Tableau
	<ul style="list-style-type: none"> • <i>Microsoft Power BI Complete Reference: Bring your data to life with the powerful features of Microsoft Power BI</i> by Devin Knight , Brian Knight, et al. 2018 • <i>Power BI Data Modeling: Build Interactive Visualizations, Learn DAX, Power Query, and Develop BI Models (English Edition)</i> by Nisal Mihiranga, 2022 • <i>Microsoft Power BI Data Analyst Certification Guide: A comprehensive guide to becoming a confident and certified Power BI professional</i> by Orrin Edenfield and Edward Corcoran, 2022 • <i>Learning Tableau 2022: Create effective data visualizations, build interactive visual analytics, and improve your data storytelling capabilities</i> by Joshua N. Milligan , Blair Hutchinson, et al., 2022 • <i>The The Tableau Workshop: A practical guide to the art of data visualization with Tableau</i> by Sumit Gupta , Sylvester Pinto, et al., 2018

Choice Based Credit Grading and Semester System (CBCGS)**S.Y.B.Com. Accounting & Finance Semester – IV Syllabus****To be implemented from the Academic year 2023-2024****3. Core Courses (EC)****1. Auditing**

1	Preamble of the Syllabus
	B.Com. in Accounting & Finance is an under-graduation course of Department of B.Com. (Accounting & Finance), Changu Kana Thakur Arts, Commerce & Science College, New Panvel. Affiliated to University of Mumbai (MH). The course is designed to guide students of B. Com accounting and finance with the knowledge of Auditing, where students will be getting to learn about various concepts of audit, audit planning and its procedure, documentations, understand various auditing techniques and understanding the concept of vouching and verifications. The performance of the learners shall be evaluated into two components i.e., internal and external. The learner's Performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.

2	Objectives of the Syllabus
□	To understand the basic concepts of audit, Errors and frauds, principles, types of audits.
□	To study of concept of audit planning, procedure and its documentation.
□	To understand the various auditing techniques and concept of Internal audit.
□	To enrich the knowledge of concept and procedure of vouching of expenses and incomes and verification of assets and liabilities.

3	Course Outcomes	Bloom Taxonomy
	Students will able to:	
□	describe the basic concepts of auditing, principles and types of audits.	Remember
□	explain audit planning, procedure and its documentation	Evaluate
□	make use of audit techniques while auditing and discuss the concepts of Internal audit	Apply
□	examine expenses and income with the help of vouching and assets and liabilities with the help of verification.	Analyze

4. Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction to Auditing	15
2	Audit Planning, Procedures and Documentation	15
3	Auditing Techniques & Internal Audit	15
4	Vouching & Verification	15
Total		60

5.	Detailed Syllabus	
	Auditing	
Sr. No.	Modules / Units	No of Lectures
1	Introduction to Auditing	15
	<ul style="list-style-type: none"> • Basics Financial Statements, Users of Financial Information, Definition of Auditing, Objectives of Auditing - Primary and Secondary, Expression of Opinion, Detection of Frauds and Errors, Inherent Limitations of Audit • Errors and Frauds Concepts, Reasons and Circumstances, Types of Errors -Commission, Omission, Principle and Compensating, Types of Frauds, Risk of Fraud and Error in Audit, Auditor's Duties and Responsibilities in Respect of Fraud • Principles of Audit Integrity, Objectivity, Independence, Confidentiality, Skills and Competence, Materiality and Work Performed by Others, Documentation, Planning, Audit Evidence, Accounting System and Internal Control, Audit Conclusions and Reporting • Types of Audit Meaning, Advantages and Disadvantages of Balance Sheet Audit, Interim Audit, Continuous Audit, Concurrent Audit, Annual Audit • Miscellaneous Advantages of Independent Audit, Qualities of Auditors, Auditing Vs Accounting, Auditing Vs Investigation, View the Concept True and Fair • Accounting Concepts Relevant to Auditing Materiality, Going Concern 	
2	Audit Planning, Procedures and Documentation	15
	<ul style="list-style-type: none"> • Audit Planning Meaning, Objectives, Factors to be Considered, Sources of Obtaining Information, Discussions with Client, Overall Audit Plan • Audit Programme Meaning, Factors to be Considered, Advantages, Disadvantages, Overcoming Disadvantages, Methods of Work, Instruction before Commencing Works of Audit, Overall Audit Approach • Audit working Papers Meaning, Importance, Factors Determining Form and Contents, Main Functions / Importance, Features, Contents of Permanent Audit File, Temporary Audit File, Ownership, Custody, Access of Other Parties to Audit Working Papers, Auditors Lien on Working Papers, Auditors Lien on Client's Books 	

	<ul style="list-style-type: none"> • Audit Notebook Meaning, Structure, Contents, General Information, Current Information and Importance 	
3	Auditing Techniques & Internal Audit	15
	<ul style="list-style-type: none"> • Test Check Test Checking Vs Routing Checking, Test Check Meaning, Features, Factors to be Considered, When Test Checks can be Used, Advantages, Disadvantages and Precautions. • Audit Sampling Audit Sampling, Meaning, Purpose, Factors in Determining Sample Size -Sampling Risk, Tolerable Error and Expected Error, Methods of Selecting Sample Items Evaluation of Sample Results Auditors Liability in Conducting Audit based on Sample • Internal Control Meaning and Purpose, Review of Internal Control, Advantages, Auditors Duties, Review of Internal Control, Inherent Limitations of Internal Control, Internal Control Samples for Sales and Debtors, Purchases and Creditors, Wages and Salaries • Internal Checks Vs Internal Control, Internal Checks Vs Test Checks • Meaning, Basic Principles of Establishing Internal Audit, Objectives, Evaluation of Internal Audit by Statutory Auditor, Usefulness of Internal Audit • Internal Audit Vs External Audit, Internal Checks Vs Internal Audit 	
4	Vouching & Verification	15
	<ul style="list-style-type: none"> • Audit of Income : Cash Sales, Sales on Approval, Consignment Sales, Sales Returns Recovery of Bad Debts written off, Rental Receipts, Interest and Dividends Received Royalties Received • Audit of Expenditure : Purchases, Purchase Returns, Salaries and Wages, Rent, Insurance Premium, Telephone expense Postage and Courier, Petty Cash Expenses, Travelling Commission Advertisement, Interest Expense • Audit of Assets Book Debts / Debtors, Stocks – Auditors General Duties; Patterns, Dies and Loose Tools, Spare Parts, Empties and Containers Quoted Investments and Unquoted Investment Trade Marks / Copyrights Patents Know-How Plant and Machinery Land and Buildings Furniture and Fixtures • Audit of Liabilities : Outstanding Expenses, Bills Payable Secured loans Unsecured Loans, Contingent Liabilities. 	

Note: Relevant Law/statute/Rules in force in force on 1st April immediately preceding The commencement of Academic Year is applicable for ensuring examination after Relevant year.

Board of Studies-in-Accountancy, University of Mumbai

6	Reference Books
	Auditing
	<ul style="list-style-type: none"> • <i>Contemporary Auditing by Kamal Gupta, Tata Mc-Graw Hill, New Delhi</i> • <i>A Hand-Book of Practical Auditing by B.N. Tandon, S. Chand and Company, New Delhi</i> • <i>Fundamentals of Auditing by Kamal Gupta and Ashok Arora, Tata McGraw Hill, New Delhi</i> • <i>Auditing: Principles and Practice by Ravinder Kumar, Virender Sharma, PHI Learning Pvt. Ltd., New Delhi</i> • <i>Auditing and Assurance for CA IPCC by Sanjib Kumar Basu, Pearson Education, New Delhi</i> • <i>Contemporary Auditing by Kamal Gupta, McGraw Hill Education Pvt. Ltd., New Delhi</i> • <i>Fundamentals of Auditing by Kamal Arora and Ashok Gupta, Tata McGraw Hill, New Delhi</i>

Choice Based Credit Grading and Semester System (CBCGS)**S.Y.B.Com. Accounting & Finance Semester – III & IV****To be implemented from the Academic year 2023-2024****Scheme of Evaluation****Scheme of examination for each semester**

The performance of the learners shall be evaluated into two components. The learner's performance shall be assessed by Internal Assessment with 40% marks in the first component. External assessment with 60% marks in the second component. The allocation of marks for the Internal Assessment and Semester End Examinations are as shown below:

-

A) Internal Assessment: 40 %**40 Marks*****Internal Assessment- (Courses without Practical Courses)***

Sr. No.	Particular	Marks
01	One periodical class test / online examination to be conducted in the given semester	20 Marks
02	Group / Individual Survey Project / Presentation and write up on the selected topics of the subjects / Case Studies / Test based on tutorials / Book Review / Poetry Appreciation / Open Book Test	15 Marks
03	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
	Total Marks	40 Marks

Internal Assessment- (Courses with Practical)

Sr. No.	Particular	Marks
01	Practical Examination	20 Marks
	Journal	05 Marks
	Viva Voce	05 Marks
	Laboratory Work	10 Marks
02	Group / Individual Survey Project / Presentation and write up on the selected topics of the subjects / Case Studies / Test based on tutorials / Book Review / Poetry Appreciation / Open Book Test	15 Marks
03	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
	Total Marks	40 Marks

Question Paper Pattern**(Periodical Class Test for the Courses at Under Graduate Programmes)**

Maximum Marks: 20

Duration: 40 Minutes

Questions to be set: 02

All Questions are Compulsory

Question No.	Particular	Marks
Q-1	Match the Column / Fill in the Blanks / Multiple Choice Questions/ Answer in One or Two Lines (Concept based Questions) (1 Marks / 2 Marks each)	10 Marks
Q-2	Answer in Brief (Attempt any Two of the Three) (5 Marks each)	10 Marks

B) Semester End Examination: 60 %**60 Marks**

- Duration: The examination shall be of 2 hours duration.

Question Paper Pattern

Theory question paper pattern
<ol style="list-style-type: none"> 1. There shall be four questions each of 15 marks (30 marks with internal options). 2. All questions shall be compulsory with internal options. 3. Question may be subdivided into sub-questions a, b, c... and the allocation of marks depends on the weightage of the unit/module.

Question Paper Pattern

(Practical Courses)

Maximum Marks: 60

Questions to be set: 04

Duration: 2 Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question No	Particular	Marks
Q-1	Full Length Practical Question	15 Marks
	OR	
Q-1	Full Length Practical Question	15 Marks
Q-2	Full Length Practical Question	15 Marks
	OR	
Q-2	Full Length Practical Question	15 Marks
Q-3	Full Length Practical Question	15 Marks
	OR	
Q-3	Full Length Practical Question	15 Marks
Q-4	Full Length Practical Question	15 Marks
	OR	
Q-4	Short Notes (Any three out of five)	15 Marks

Note:

The 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 maybe asked.

Question Paper Pattern **(Theoretical Courses)**

Maximum Marks: 60

Questions to be set: 04

Duration: 2 Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question No	Particular	Marks
Q-1	Full Length Question OR	15 Marks
Q-1	Full Length Question	15 Marks
Q-2	Full Length Question OR	15 Marks
Q-2	Full Length Question	15 Marks
Q-3	Full Length Question OR	15 Marks
Q-3	Full Length Question	15 Marks
Q-4	Full Length Question OR	15 Marks
Q-4	Short Notes (Any three out of five)	15 Marks

Note:

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

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 a minimum of 40% marks (i.e., 16 out of 40) in the Internal Assessment and 40% marks in Semester End Examination (i.e., 24 Out of 60) 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.



Janardan Bhagat Shikshan Prasarak Sanstha's

**CHANGU KANA THAKUR
ARTS, COMMERCE & SCIENCE COLLEGE,
NEW PANVEL (AUTONOMOUS)**

**Re-accredited 'A+' Grade by NAAC
'College with Potential for Excellence' Status Awarded by UGC
'Best College Award' by University of Mumbai**

Department of Accounting & Finance

Board of Studies in Accounting & Finance

Program: B.Com. Accounting & Finance

**Revised Syllabus of T.Y.B.Com. Accounting & Finance
(Sem. V & VI)**

**Choice Based Credit & Grading System (60:40)
w.e.f. Academic Year 2021-22**

Sr. No.	Heading	Particulars
1	Title of Programme	B.Com. Accounting & Finance
2	Eligibility for Admission	th 12 Commerce/ Science of all Recognised Board
3	Passing marks	40%
4	Ordinances/Regulations (if any)	--
5	No. of Semesters	Six
6	Level	U.G.
7	Pattern	Semester (60:40)
8	Status	Revised
9	To be implemented from Academic year	2021-2022

B.Com. (Accounting and Finance) Programme

Under Choice Based Credit, Grading and Semester System

T.Y.B.Com. (Accounting and Finance)

(To be implemented from Academic Year 2021-2022)

No. of Courses	Semester V	Credits	No. of Courses	Semester VI	Credits
1	Elective Courses (EC)		1	Elective Courses (EC)	
1,2,3 &4	*Any four courses from the following list of the courses	12	1,2,3 &4	**Any four courses from the following list of the courses	12
2	Core Courses (CC)		2	Core Courses (CC)	
5	Financial Accounting - V	04	5	Financial Accounting - VII	04
6	Financial Accounting - VI	04	6	Project Work-II	04
Total Credits		20	Total Credits		20

- **Note:** Project work is considered as a special course involving application of knowledge in solving/analyzing/exploring a real life situation/ difficult problem. Project work would be of 04 credits each. A project work may be undertaken in any area of Elective Courses/ Study Area

*List of Elective Courses for Semester V (Any Four)		**List of Elective Courses for Semester VI (Any Four)	
01	Cost Accounting - III	01	Cost Accounting - IV
02	Financial Management - II	02	Financial Management - III
03	Taxation - III (Indirect Taxes - I)	03	Taxation - IV (Indirect Taxes- II)
04	International Finance	04	Security Analysis and Portfolio Management
05	Financial Analysis and Business Valuation	05	Management Control Systems
06	Management -II (Management Applications)	06	Economics Paper – III (Indian Economy)
Note: Course selected in Semester V will continue in Semester VI			

B.Com. (Accounting and Finance) Programme
Under Choice Based Credit, Grading and Semester System

T.Y.B.Com. Accounting & Finance Syllabus

To be implemented from the Academic year 2021-2022

Semester V

Sr. No.	Course Code	Course Title	Credits	L / Week
1	UAF5CA3	Cost Accounting - III	3	4
2	UAF5FM2	Financial Management-II	3	4
3	UAF5TX3	Taxation - III (Indirect Taxes - I)	3	4
4	UAF5INF	International Finance	3	4
5	UAF5FA5	Financial Accounting-V	4	4
6	UAF5FA6	Financial Accounting-VI	4	4

Choice Based Credit Grading and Semester System (CBCGS)**T.Y.B.Com. Accounting & Finance Semester –V Syllabus****To be implemented from the Academic year 2021-2022****1. Elective Courses (EC)****1. Cost Accounting – III**

1	Preamble of the syllabus
	<p>B.Com. in Accounting & Finance is an under graduate course of Department of B.Com. (Accounting & Finance), Changu Kana Thakur Arts, Commerce & Science College, New Panvel (Autonomous), Affiliated to University of Mumbai (MH). The course is designed to guide students of B.Com Accounting and Finance to understand the costing system like Integrated and Non-Integrated system and to enhance the learners in understanding the concept of cost and its important towards the business organization. It helps to Learn to calculate the cost for activity with the help of ABC System. The performance of the learners shall be evaluated into two components i.e. internal and external. The learner's performance shall be assessed by Internal Assessment with 40 marks and External assessment with 60 marks.</p>

2	Objectives of the course
⌋	To enhance the learners in understanding the concept of cost and its important towards the business organization
⌋	To enable the learners to understand, develop and apply the techniques of costing in the decision making for business organization
⌋	To develop a basic techniques of Cost Accounting
⌋	To understand the Cost Accounting System like Integrated and Non-Integrated system and reconciliation.
⌋	To help for cost control and cost reduction in the organization.

3	Course Outcomes
⌋	Learn the process of computation of Total Cost, Process Cost and Inter-process Profit.
⌋	Understand the terms with regard to Cost Accounting Systems
⌋	Understand the terms with regard to Operating costing.
⌋	Learn to calculate the cost for activity with the help of ABC System.

4	Detailed Syllabus	
	Cost Accounting – III	
Sr. No.	Modules / Units	No. Of Lectures
1	Uniform Costing and Inter-Firm Comparison	05
	Uniform costing Meaning of and need for Uniform costing Essentials for success of Uniform costing Advantages and limitations of Uniform costing Areas of Uniformity, Uniform cost manual Inter Firm Comparison Pre-requisites of inter firm comparison; Advantages and limitations Practical problems	
2	Cost Accounting Systems	15
	Integrated System Meaning; Features, Advantages and Disadvantages Journal Entries and Preparing Integrated Ledgers. Non-Integrated System Meaning; Features, Advantages and disadvantages Journal entries and Preparing Cost Control Accounts Reconciliation of Cost and Financial Accounts Analyse the reason for differences in profit under financial and cost accounting systems Prepare reconciliation statement for profit under financial and cost accounting systems	
3	Operating Costing	10
	Meaning of operating costing; Determination of per unit cost ; Pricing of services Collection of costing data Note-Practical problems based on costing of hospitals, hotels, goods and passengers transport service, Library and canteen.	
4	Process Costing- Equivalent Units of Production and Intercrosses Profit	15
	Valuation of Work in progress and Equivalent production (FIFO Method and Weighted Average Method)) Inter Process transfer at Profit Practical problems	
5	Activity Based Costing System	15
	Activity Based Costing – Introduction, Advantages, Limitations, Identification of cost drivers, Practical Problems on Traditional V/s Activity Based Costing System.	

5	References Books
	Cost Accounting – III
	<ul style="list-style-type: none"> • <i>Lectures on Costing by Swaminathan: S. Chand and Company (P) Ltd., New Delhi</i> • <i>Cost Accounting by C.S. Rayudu, Tata Mc. Grow Hill and Co. Ltd., Mumbai</i> • <i>Cost Accounting by JawaharLaland Seema Srivastava, Tata Mc. Grow Hill and Co. Ltd., Mumbai</i> • <i>Cost Accounting by Ravi M. Kishore, Taxmann Ltd., New Delhi</i> • <i>Principles and Practices of Cost Accounting by N.K. Prasad, Book Syndicate Pvt. Ltd., Calcutta</i> • <i>Cost Accounting Theory and Practice by B.K. Bhar, Tata Mc. Grow Hill and Co. Ltd., Mumbai</i> • <i>Cost Accounting Principles and Practice by M.N. Arora, Vikas Publishing House Pvt. Ltd., New Delhi</i> • <i>Advanced Cost and Management Accounting: Problems and Solutions by V.K. Saxena and C.D. Vashist, S. Chand and Company (P) Ltd., New Delhi</i> • <i>Cost Accounting by S.P. Jain and K.L. Narang, Kalyani Publishers, Ludhiana</i> • <i>Modern Cost and Management Accounting by M. Hanif, Tata McGraw Hill Education Pvt. Ltd., New Delhi</i>

Choice Based Credit Grading and Semester System (CBCGS)**T.Y.B.Com. Accounting & Finance Semester –V Syllabus****To be implemented from the Academic year 2021-2022****1. Elective Courses (EC)****2. Financial Management -II**

1	Preamble of the syllabus
	<p>B.Com. in Accounting & Finance is an under graduation course of Department of B.Com. (Accounting & Finance), Changu Kana Thakur Arts, Commerce & Science College, New Panvel (Autonomous), Affiliated to University of Mumbai (MH). The course is designed to guide students of B.Com accounting and finance to evaluate strategic financial management options in the light of changing environments and effectively manage the financial operations of business also understand about the capital structure theories The performance of the learners shall be evaluated into two components i.e. internal and external. The learner's performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.</p>

2	Objectives of the Course
□	To enhance the abilities of the learners to develop the objectives of financial management.
□	To enable the learners to understand, develop and apply the techniques of investment in the financial decision making in the business corporate
□	Determining the optimal financial strategy for various stages of the life-cycle of the enterprise
□	To understand about the capital structure theories
□	To enable the learners to understand, about mutual funds & bond valuation

3	Course Outcome
□	Learn the financial concepts used in making financial management decisions.
□	Understand the use of effective capital budgeting techniques for decision making
□	Effectively manage financial needs and business operations.
□	Grasp the financial concepts, processes, and operations from a managerial Perspective about mutual fund

4	Detailed Syllabus	
	Financial Management-II	
Sr. No.	Modules / Units	No. Of Lectures
1	Strategic Financial Management	05
	Strategic Financial Management – Need and Importance Corporate, Business and Functional Strategy Financial Planning - Need and Importance Profit Maximization , Wealth Maximization Interface of Financial Policy and Strategic Management Relationship of Finance to Economics and Accounting Role of Financial Manager	
2	Capital Budgeting – Project Planning & Risk Analysis	15
	Introduction - Capital Budgeting Process, Project Classification and Investment Criteria. Techniques of Capital Budgeting - NPV, Benefit Cost Ratio, Internal Rate of Return, Modified Internal Rate of Return, Payback period, Discounted Payback Period and ARR. (Inclusive of Estimation of Project Cash Flows) Capital Rationing – Meaning, Need and Dealing with Capital Rationing Problems Risk Analysis in Capital Budgeting – Sources and Perspectives of Risk, Sensitivity Analysis, Scenario Analysis, Simulation Model, Decision Tree Analysis and Break Even Analysis.	
3	Capital Structure Theories and Dividend Decisions	15
	Capital Structure Theories – Background, Assumptions, Definitions and Taxation and Capital Structure Types – Net Operating Income, Net Operating Income Approach, Traditional Position, Modigliani and Miller Approach, Trade off Theory and Signaling Theory. Dividend Decisions- Need, Importance, Formulation, Legal and Procedural Aspects. Dividend Decision Models - Walter, Gordon, Graham & Dodd Model and M-M Model	
4	Mutual Fund and Bond Valuation	15
	Introduction to Mutual Fund- History & 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. Classification of Mutual Fund - Functional/Operational – Open ended, close ended, Interval, Portfolio – Income, Growth, Balanced, MMMF, Geographical/ Location – Domestic and Offshore, Tax Saving Funds, Exchange Traded Funds , Balance Funds , Fixed Term Plan Debt Funds and SIP. Calculations of NAV, Entry Load and Exit Load. Bond Valuation - Meaning, Measuring Bond Returns – Yield to Maturity, Yield to call and Bond Pricing. Bond Pricing Theorems, Bond Risks and Bond Duration. (Practical Problems on YTM and Bond Duration.)	
5	Credit Management	05
	Credit Management – Terms of Payment, Credit Policy Variables, Approaches of evaluation of credit policies (total approach & Incremental approach), Credit Evaluation, Credit Granting Decision, Control of Accounts Receivables ie Receivables Management, Ageing Schedule and Credit Management in India, Pledging & factoring, Innovations in receivable management Payable management – Introduction, cost & benefits of trade credit, computation of cost of payables	

5	References Books
	Financial Management - II
<p>□</p>	<ul style="list-style-type: none"> • <i>Fundamentals of Financial Management</i> by D. Chandra Bose, PHI Learning Pvt. Ltd., New Delhi • <i>Fundamentals of Financial Management</i> by Bhabotosh Banerjee, PHI Learning Pvt. Ltd., New Delhi • <i>Fundamentals of Financial Management</i> by Vyuptakesh Sharma, Pearson Education, New Delhi • <i>Fundamentals of Financial Management</i> by J.C. Van Horne, Prentice Hall of India, New Delhi • <i>Financial Management: Text and Problems</i> by M.Y. Khan and P.K. Jain, Tata McGraw Hill, New Delhi • <i>Financial Management: Theory and Practice</i> by Prasanna Chandra, Tata McGraw Hill, New Delhi • <i>Financial Management</i> by I.M. Pandey, Vikas Publishing House, New Delhi • <i>Financial Management</i> by C. Paramasivan & T. Subramanian • <i>Financial Management</i> by IM Pandey • <i>Financial Management</i> by Ravi Kishor • <i>Financial Management</i> by Khan & Jain

Choice Based Credit Grading and Semester System (CBCGS)**T.Y.B.Com. Accounting & Finance Semester –V Syllabus****To be implemented from the Academic year 2021-2022****1. Elective Courses (EC)****3. Taxation – III (Indirect Taxes – I)**

1	Preamble of the syllabus
	B.Com. in Accounting & Finance is an under graduation course of Department of B.Com. (Accounting & Finance), Changu Kana Thakur Arts, Commerce & Science College, New Panvel (Autonomous), Affiliated to University of Mumbai (MH). The course is designed to guide students of B.Com accounting and finance to enable the learners to understand the sources of revenue of the government and examine the methods of tax credit under GST and Understand the process of Registration of GST The performance of the learners shall be evaluated into two components i.e. internal and external. The learner's performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.

2.	Objectives of the course
□	To understand various components of GST.
□	To enable the learners to understand the sources of revenue of the government.
□	To make the learners aware of goods and services on which the government has imposed indirect tax.
□	To understand the concept of Input Tax Credit

3	Course Outcome
□	Learn to compute the assessable value of transaction related to goods and services.
□	Understand the calculation of GST for various goods and services.
□	Learn to examine the methods of tax credit under GST.
□	Understand the process of Registration of GST

4	Detailed Syllabus	
	Taxation – III (Indirect Taxes – II)	
Sr. No.	Modules / Units	No. Of Lectures
1	Introduction to Indirect Taxation and GST	10
	<p>Basics for Taxation - Direct Taxes and Indirect Taxes – Features of Indirect taxes, Difference, Advantages and Disadvantages, Sources and Authority of Taxes in India (Art 246 of the Indian Constitution)</p> <p>Introduction to GST – Genesis of GST in India, Power to tax GST (Constitutional Provisions), Extent and Commencement, Meaning and Definition of GST, Benefits of GST, Conceptual Framework – CGST, IGST, SGST, UTGST, Imports of goods or services or both, Export of goods or services or both, Taxes subsumed and not subsumed under GST. GST Council and GST Network</p> <p>Definitions under CGST Act</p>	
2	Levy and Collection of GST	08
	<p>Charge of GST, Levy and Collection GST, Composite and Mixed Supplies under GST, Power to Grant Exemption, Negative list of GST, GST Rate Schedule for Goods and Services</p> <p>Composition Scheme and assessment under composition scheme (Sec.10)</p> <p>Computation of GST Tax liability</p>	
3	Concept of Supply	08
	Taxable Event Supply; Place of Supply ; Time of Supply ; Value of Supply	
4	Documentation	08
	Tax Invoices, Credit and Debit notes	
5	Input Tax Credit and Computation of GST	20
	<p>Eligibility and conditions for taking Input Tax Credit</p> <p>Apportionment of credit & Blocked credits ; Credit in special circumstances</p> <p>Computation of GST under Inter State supplies and Intra State Supplies , matching of 2a</p>	
6	Registration	06
	Registration – Persons liable for Registration, Persons not liable for Registration, Procedure for Registration, Deemed Registration,, Amendment, Cancellation and Revocation of Registration.	

Note: Relevant Law/statute/Rules in force and relevant Standards in force on 1st April immediately preceding commencement of Academic Year is applicable for ensuring examination after the relevant year.

5	References Books
	Taxation – IV (Indirect Taxes – II)
	<ul style="list-style-type: none"> • <i>Indirect Taxes: Law and Practice by V.S. Datey, Taxmann</i> • <i>Indirect Taxes by V.S. Balchandra, Sultan Chand and Sons, New Delhi</i> • <i>GST Law & practice with Customs & FTP by V.S. Datey, Taxmann</i> • <i>GST by V.S. Datey, Taxmann</i> • <i>GST & customs Law by K.M. Bansal, University Edition</i> • <i>GST Law & practice with Customs & FTP by VineetSodhani, Snow White Publications</i> • <i>GST Law & practice with Customs & FTP by Sanjiv Agarwal, Snow White Publications</i> • <i>Indirect taxes(Containing GST, Customs & FTP) by MOhd. Rafi, Bharat Publications</i>

Choice Based Credit Grading and Semester System (CBCGS)**T.Y.B.Com. Accounting & Finance Semester –VSyllabus****To be implemented from the Academic year 2021-2022****1. Elective Courses (EC)****3. International Finance**

1	Preamble of the syllabus
	B.Com. in Accounting & Finance is an under graduation course of Department of B.Com. (Accounting & Finance), Changu Kana Thakur Arts, Commerce & Science College, New Panvel (Autonomous), Affiliated to University of Mumbai (MH). The course is designed to guide students of B.Com Accounting and Finance to understand different technique, problems& skills which would help them to develop the knowledge about the concept of international trade and Learn the concepts of international financial management. The performance of the learners shall be evaluated into two components i.e. internal and external. The learner's performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.

2	Objectives of the course
□	To develop the knowledge about the concept of international trade & Finance
□	To enable them to understand foreign exchange market & dealings.
□	To acquire knowledge about derivatives
□	To understand the effectiveness of international financial management.

3	Course Outcome
□	Understand international trade terms and finance.
□	Deal in derivative trading.
□	Grasp a basic understanding of foreign exchange market.
□	Learn the concepts of international financial management.

4	Detailed Syllabus	
	International Finance	
Sr. No.	Modules / Units	No. of Lectures
1	Derivatives – Futures	12
	Derivatives – Need and Importance, Major Players in Derivative Markets, Features of Forward Contracts, Features of Future Contract, Forward V/s Future, Theoretical Future Price, Pricing Index Futures, Initial Margin and Maintenance Margin, Marking to Market and Variation Margin.	
2	Derivatives – Options	12
	Options- Long Call, Short Call, and Long Put, Short Put, Options V/s Futures, Writer of an Option, At the Money, In the Money and Out of The Money Options. Intrinsic and Time Value, Option Spreads and Strategies, Put Call Parity Theorem.	
3	Foreign Exchange Markets and Dealings	12
	Introduction – Participants of Foreign Exchange Markets, Characteristics of Foreign Exchange Market, Major Foreign Currencies that Trade Worldwide, Foreign Currency Accounts – Nostro, Vostro and Loro (Cash Position and Currency position) Terms in Forex Market – Direct Quote and Indirect Quote, Bid, Ask and Spread, American terms, European terms, Spot, Tom, Cash and Forward Rates, Appreciation and Depreciation of currency, Premium and Discount, Swap Points, and Cross Rates.	
4	Foreign Exchange Exposure and Risk Management	12
	Exchange Rate Determination Theories – The theory of Purchasing Power Parity, The Fischer effect, The International Fischer Effect and The Theory of Interest Rate Parity. Calculation of Forward Rate and Future Spot Rate. Arbitrage in Foreign Exchange Market – Covered and Uncovered Interest Arbitrage. Foreign Exchange Risk - Introduction, Types of Exposures and Strategies for Exposure Management. Hedging Transaction Exposure, Hedging Techniques, Money Market Hedge, Forward Hedge and Hedging of Futures & Options	
5	International Financial Management	12
	International Financial Management -International source of funds, International Capital Budgeting & International working capital management	

5	Reference Books
	International Finance
	<ul style="list-style-type: none"> • <i>International Financial Management, P G Apte, 5th Edition, The McGraw Hill</i> • <i>International Finance Management, Cheol . S. Eun& Bruce G. Resnick</i> • <i>International Finance – Maurice D. Levi, Special Indian Edition</i> • <i>International Finance – A Business Perspective Prakash G. Apte,</i> • <i>International Finance, V A. Aadhani</i>

Choice Based Credit Grading and Semester System (CBCGS)**T.Y.B.Com. Accounting & Finance Semester –VSyllabus****To be implemented from the Academic year 2021-2022****1. Elective Courses (EC)****4. Financial Analysis and Business Valuation**

1	Preamble of the syllabus
	B.Com. in Accounting & Finance is an under graduation course of Department of B.Com. (Accounting & Finance), Changu Kana Thakur Arts, Commerce & Science College, New Panvel (Autonomous), Affiliated to University of Mumbai (MH). The course is designed to guide students of B.Com Accounting and Finance to understand about financial modeling & appraisal and to acquire skill for analysing the financial statements. Learners would Analyse & compare difference valuation models The performance of the learners shall be evaluated into two components i.e. internal and external. The learner's performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.

2	Objectives of the course
□	To understand about financial modeling & appraisal
□	To acquire skill for analysing the financial statements
□	To know basics of valuation in business acquisition
□	To understand about valuation models

3	Course outcomes
□	Learner prepare difference financial models
□	Understand skill of analyzing the financial statements
□	Acquire knowledge of valuation of business acquisition
□	Analyse & compare difference valuation models

4	Detailed Syllabus	
	Financial Analysis and Business Valuation	
Sr. No.	Modules / Units	No. of Lectures
1	Financial Modeling for Project Appraisal	05
	Financial Modeling – concepts and application Financial statements module area Use of functions -NPV and IRR Forecasting Techniques	
2	Financial Analysis	15
	Financial Analysis, Financial Statement Analysis, Analysis of Balance Sheet Analysis of Income Statement Analysis of Statement of Shareholder Equity Analysis of Cash flow Statement Analysis of Profitability	
3	Growth Analysis and Sustainable Earning	10
	Concept of Growth Analysis Analysis of changes in profitability and sustainable earnings Evaluation of P/B ratios and P/E ratios	
4	Basics of Valuation	06
	Introduction to valuation Value, Distinction between Price and Value Foundation of Business Valuation Purpose of business valuation Valuation Bias Uncertainties in Business Valuation Role of valuation in business acquisition, legal and tax purposes, efficient market hypothesis	
5	Valuation Models	12
	Introduction to valuation models: asset based approach, Income based approach, market based approach Discounted cash flow valuation Relative valuation Free Cash Flow valuation	
6	Valuation of Assets and Liabilities	12
	Valuation of Fixed Assets, Valuation of Inventories and Valuation of Investment Valuation of Shares Valuation of Goodwill, Patents, Copyrights, Brands, Real Estate Valuation of Liabilities	

5	Reference Books
	Financial Analysis and Business Valuation
	<ul style="list-style-type: none"> • <i>Valuation: Measuring and Managing the value of Companies: Thomas Copeland- Wiley</i> • <i>The Handbook of Advance Business Valuation: Reilly and Swhweish: Mc Graw hill</i> • <i>Business Valuation: PitabasMohanty- Taxmann</i> • <i>Valuation- Measuring and Managing the value of Companies : Tim Koller- Mc Kinsey & Co</i>

Choice Based Credit Grading and Semester System (CBCGS)**T.Y.B.Com. Accounting & Finance Semester –V Syllabus****To be implemented from the Academic year 2021-2022****1. Elective Courses (EC)****5. Management- II (Management Applications)**

1	Preamble of the syllabus
	B.Com. in Accounting & Finance is an under graduation course of Department of B.Com. (Accounting & Finance), Changu Kana Thakur Arts, Commerce & Science College, New Panvel (Autonomous), Affiliated to University of Mumbai (MH). The course is designed to guide students of B.Com Accounting and Finance to understand about the marketing management & its aspects and to acquire the knowledge about financial management & various theories. Learners help to apply various theories for decision making on financial aspects. The performance of the learners shall be evaluated into two components i.e. internal and external. The learner's performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.

2	Objectives of the syllabus
□	To understand about the marketing management & its aspects
□	To acquire the knowledge about financial management & various theories
□	To know about production management
□	To understand concept of human resource management & policies of appraisal

3	Course Outcome
□	Learners enhance knowledge about marketing management
□	It helps to apply various theories for decision making on financial aspects
□	it helps to understand different aspects of production management
□	Learners would have used various policies for performance appraisal of employees.

4	Detailed Syllabus	
	Management- II (Management Applications)	
Sr. No.	Modules / Units	No. of Lectures
1	Marketing Management	15
	<p>Meaning and Definition of Marketing – 4 Ps of Marketing, Importance</p> <p>Product Management – Meaning & Definition – Product Development Strategies, Product life cycle, Branding- Meaning, Factors influencing branding</p> <p>Price Management – Meaning and Definition – Factors affecting pricing decisions, Pricing Strategies</p> <p>Place (Distribution) Management – Meaning and Definition – Factors Governing Distribution Decisions – Types of Distribution Channels</p> <p>Promotion Management – Meaning – Promotion Strategies, Integrated marketing communication</p> <p>Case studies based on the above topics</p>	
2	Production Management	15
	<p>Meaning and Definition of Production Management – Scope of Production Management, Steps in Production Planning and Control</p> <p>Meaning of Productivity - Measurement of Productivity – Measure to increase Productivity – Productivity Movement in India</p> <p>Meaning and Definition of Quality Management – TQM – Quality Circles – ISO 9000/14000</p> <p>Inventory Management – Meaning and Methods</p> <p>Case studies based on the above topics.</p>	
3	Human Resource Management	15
	<p>Human Resource Management – Meaning, Nature, Functions of Human Resource Management; Human Resource Planning- Meaning, Process of Human Resource Planning</p> <p>Human Resource Development- Methods of Developing Human Resource</p> <p>Performance Appraisal – Meaning and Definition – Traditional and Modern Methods of Appraisal; Employee retention ; Leadership- Traits, Styles</p> <p>Motivation- Factors of Motivation, Theories of Motivation- Maslow’s Theory, Douglas MacGregor’s Theory X and Theory Y</p> <p>Case studies based on the above topics</p>	
4	Financial Management	15
	<p>Meaning and Definition of Financial Management – Functions of Financial Management</p> <p>Capital Budgeting- Introduction, Importance and Process</p> <p>Capital Structure- Meaning, Factors affecting Capital Structure</p> <p>Capital Market – Meaning and Constituents – Functions</p> <p>Fundamental Analysis – Technical Analysis - Venture Capital – DEMAT Account -</p>	

	Futures and Options Case studies based on the above topics	
5	Reference Books	
	Management- II (Management Applications)	
	<ul style="list-style-type: none"> • <i>Kotlar, Philip, Marketing Management, Prentice Hall, New Delhi.</i> • <i>Stanton, Etzel, Walker, Fundamentals of Marketing, Tata-McGraw Hill, New Delhi.</i> • <i>Saxena, Rajan, Marketing Management, Tata-McGraw Hill, New Delhi.</i> • <i>McCarthy, E.J., Basic Marketing: A managerial approach, Irwin, New York.</i> • <i>Pillai R S, Bagavathi, Modern Marketing</i> • <i>Principles of Management , Ramasamy, Himalya Publication , Mumbai</i> • <i>Principles of Management , Tripathi Reddy , Tata Mc Grew Hill</i> • <i>Management Text & Cases , VSP Rao , Excel Books, Delhi</i> • <i>Management Concepts and OB , P S Rao & N V Shah , AjabPustakalaya</i> • <i>Essentials of Management , Koontz II & W , Mc. Grew Hill , New York</i> • <i>Principles of Management-Text and Cases –Dr..M.SakthivelMurugan, New Age Publications</i> 	

Choice Based Credit Grading and Semester System (CBCGS)**T.Y.B.Com. Accounting & Finance Semester –V Syllabus****To be implemented from the Academic year 2021-2022****2. Core Courses (CC)****1. Financial Accounting - V**

1	Preamble of the syllabus
	<p>B.Com. in Accounting & Finance is an under graduation course of Department of B.Com. (Accounting & Finance), Changu Kana Thakur Arts, Commerce & Science College, New Panvel (Autonomous), Affiliated to University of Mumbai (MH). The course is designed to guide students of B.Com accounting and finance to understand the concept of amalgamation to study the process of liquidation of companies and preparation of liquidator's final statement of accounts which will enable them to understand the types of liquidation and its accounting treatments and get the knowledge about accounting entries based on GST. The performance of the learners shall be evaluated into two components i.e. internal and external. The learner's performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.</p>

2	Objectives of the Syllabus
□	To understand the concept of amalgamation, absorption w.r.t. to AS 14
□	To study the process of liquidation of companies and preparation of liquidator's final statement account.
□	To learn and apply the provision of Companies Act 2013 for different transactions and events of internal reconstruction
□	To understand the consolidation of financial statement.
□	To understand the basics of Blockchain Accounting

3	Course Outcomes
□	Learn AS 14 and the methods of accounting for Amalgamations, concept of transferee Company and the transferor company, purchase consideration and accounting treatment.
□	Understand the procedure of internal reconstruction, its methods and accounting treatment
□	Understand the procedure of liquidation of companies, & preparation of Liquidator Final Statement
□	Enhance the knowledge about accounting entries of indirect taxation.

4	Detailed Syllabus	
	Financial Accounting - V	
Sr. No.	Modules / Units	No. of Lectures
1	Consolidated Financial Statements	15
	Meaning, Stand Alone Financial Statements; concepts of group, holding company & subsidiary company, Consolidated Financial statements – Applicability, Advantages & Disadvantages Procedure of consolidation of Balance-sheet & Profit & Loss Account ; Apply consolidation procedure for consolidation of financial statements of subsidiaries with holding company	
2	AS – 14 - Amalgamation, Absorption & External Reconstruction (excluding inter – company holding)	15
	In the nature of merger and purchase with corresponding accounting treatments of pooling of interests and purchase method respectively. Meaning and Computation of purchase consideration (both methods of Amalgamation as per AS 14). Problems based on both methods . Inter -company holding ; Practical problems	
3	Internal Reconstruction	10
	Need for reconstruction and company law provisions. Distinction between internal and external reconstruction. Methods including alteration of share capital, variation of shareholder rights, sub division, consolidation, surrender and reissue / cancellation, reduction of share capital with relevant legal provisions and accounting treatment for same. ; Practical problems	
4	Liquidation of Companies	10
	Meaning of liquidation or winding up Preferential payments ;Overriding preferential payments Preparation of statement of affairs, deficit / surplus account Liquidator's final statement of account ,B List Contributory; Practical problems	
5	Accounting for Indirect taxation	05
	Accounting entries based on Goods & service tax ; Input CGST and Input SGST / Input IGST; Output CGST and Output SGST/ Output IGST	
6	Block chain Accounting	05
	Introduction History of Blockchain & Bitcoin Blockchain Accounting : Transforming accounting and auditing Features of Blockchain Technology Types of Blockchain Accounting Benefits of Block chain for accounting Impact of Blockchain on Accounting Benefits of Block chain for Auditing Impact of Blockchain on Auditing	

5	Reference Books
	Financial Accounting – V
	<ul style="list-style-type: none"> • <i>Introduction to Accountancy by T.S. Grewal, S. Chand and Company (P) Ltd., New Delhi</i> • <i>Advance Accounts by Shukla and Grewal, S. Chand and Company (P) Ltd., New Delhi</i> • <i>Advanced Accountancy by R.L Gupta and M. Radhaswamy, S. Chand and Company (P) Ltd., New Delhi</i> • <i>Modern Accountancy by Mukherjee and Hanif, Tata Mc. Grow Hill and Co. Ltd., Mumbai</i> • <i>Financial Accounting by LesileChandwichk, Pentice Hall of India Adin Bakley (P) Ltd., New Delhi</i> • <i>Financial Accounting for Management by Dr. Dinesh Harsalekar, Multi-Tech. Publishing Co. Ltd., Mumbai</i> • <i>Financial Accounting by P.C. Tulsian, Pearson Publications, New Delhi</i> • <i>Accounting Principles by R.N. Anthony and J.S. Reece, Richard Irwin, Inc</i> • <i>Financial Accounting by Monga, J.R. Ahuja, Girish Ahuja and Ashok Shehgal, Mayur Paper Back, Noida</i> • <i>Compendium of Statement and Standard of Accounting, ICAI</i> • <i>Indian Accounting Standards, Ashish Bhattacharya, Tata Mc. Grow Hill and Co. Ltd., Mumbai</i> • <i>Financial Accounting by Williams, Tata Mc. Grow Hill and Co. Ltd., Mumbai</i> • <i>Company Accounting Standards by ShrinivasanAnand, Taxman, New Delhi</i> • <i>Financial Accounting by V. Rajasekaran, Pearson Publications, New Delhi</i> • <i>Introduction to Financial Accounting by Horngren, Pearson Publications, New Delhi</i> • <i>Financial Accounting by M. Mukherjee and M. Hanif, Tata McGraw Hill Education Pvt. Ltd., New Delhi</i> • <i>Financial Accounting a Managerial Perspective, Varadraj B. Bapat, MehulRaithatha, Tata McGraw Hill Education Pvt. Ltd., New Delhi</i>

Choice Based Credit Grading and Semester System (CBCGS)**T.Y.B.Com. Accounting & Finance Semester – V Syllabus****To be implemented from the Academic year 2021-2022****2. Core Courses (CC)****3. Financial Accounting – VI**

1	Preamble of the Syllabus
	<p>B.Com. in Accounting & Finance is an under graduation course of Department of B.Com. (Accounting & Finance), Changu Kana Thakur Arts, Commerce & Science College, New Panvel (Autonomous), Affiliated to University of Mumbai (MH). The course is designed to guide students of B.Com accounting and finance to enhance the abilities of the learners to develop the objectives of Financial Accounting and to analyze and enhance the ability of learners for better understanding, interpretation and analysis of Financial Statement of banking company, insurance company & Limited Liability of partnership firm. The performance of the learners shall be evaluated into two components i.e. internal and external. The learner's performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.</p>

2	Objectives of the Syllabus
□	To enhance the abilities of the learners to develop the objectives of Financial Accounting of Banking company
□	To enhance the abilities of the learners to develop the objectives of Financial Accounting of Insurance Company
□	To analyze and enhance the ability of learners for better understanding, interpretation and analysis of Financial Statement of Non – Banking Financial Companies
□	To understand procedure and structure of Final Accounts of Limited Liability Partnership As per LLP Act, 2008.

3	Course Outcomes
□	Understand Business Finance terms and concepts while communicating
□	Learn the importance of Life insurance and its accounting treatment.
□	Understand Financial terms and interpretation for taking financial decisions.
□	Demonstrate a basic understanding of Financial Accounting.

4	Detailed Syllabus	
	Financial Accounting – VI	
Sr. No.	Modules / Units	No. of Lectures
1	Final Accounts of Banking Company	15
	Legal provision in Banking Regulation Act, 1949 relating to Accounts. Statutory reserves including Cash Reserve and Statutory Liquidity Ratio. Bill purchase and discounted, rebate of bill discounted. Final Accounts in prescribed form Non – performing assets and Income from non – performing assets. Capital Adequacy Norms Classification of Advances, standard, sub – standard, doubtful and provisioning requirement.	
2	Final Accounts of Insurance Company	15
	General Insurance – Various types of insurance, like fire, marine, Miscellaneous, Special terms like premium, claims, commission, Management expenses, Reserve for unexpired risk, reinsurance Final Accounts in a prescribed form. Revenue Statement – Form B – RA, Profit / Loss Account – Form B – PL and Balance Sheet Form B – BS. Life Insurance Introduction of life insurance, Types of life insurance, Qualification for life insurance and Additional uses of life insurance, Revenue Account (Policyholders' Account – Technical Account), Profit and Loss Account (Shareholders' Account – Non-Technical Account),) Balance Sheet, Accounting Principles to be followed.	
3	Non – Banking Financial Companies	08
	Introduction, Definition, Registration and Regulation, Classification, Income Recognition, Accounting of Investment, Applicability of Prudential Norms, Assets classification, Non- performing Assets, Capital Adequacy, Preparation of Financial statement	
4	Valuation of Goodwill and Shares	12
	Valuation of Goodwill Maintainable Profit method, Super Profit Method Capitalization method, Annuity Method Valuation of Shares Intrinsic Value Method, Yield method and Fair Value Method	
5	Accounting for Limited Liability Partnership	10
	Statutory provisions Conversion of partnership business into Limited Liability Partnership Final accounts	

5	Reference Books	
	Financial Accounting – VI	<i>bus</i>
□	<ul style="list-style-type: none"> • <i>Introduction to Accountancy</i> by T.S. Grewal, S. Chand and Company (P) Ltd., New Delhi • <i>Advance Accounts</i> by Shukla and Grewal, S. Chand and Company (P) Ltd., New Delhi • <i>Advanced Accountancy</i> by R.L Gupta and M. Radhaswamy, S. Chand and Company (P) Ltd., New Delhi • <i>Modern Accountancy</i> by Mukherjee and Hanif, Tata Mc. Grow Hill and Co. Ltd., Mumbai • <i>Financial Accounting</i> by LesileChandwichk, Pentice Hall of India Adin Bakley (P) Ltd., New Delhi • <i>Financial Accounting for Management</i> by Dr. Dinesh Harsalekar, Multi-Tech. Publishing Co. Ltd., Mumbai • <i>Financial Accounting</i> by P.C. Tulsian, Pearson Publications, New Delhi • <i>Accounting Principles</i> by R.N. Anthony and J.S. Reece, Richard Irwin, Inc • <i>Financial Accounting</i> by Monga, J.R. Ahuja, Girish Ahuja and Ashok Shehgal, Mayur Paper Back, Noida • <i>Compendium of Statement and Standard of Accounting</i>, ICAI • <i>Indian Accounting Standards</i>, Ashish Bhattacharya, Tata Mc. Grow Hill and Co. Ltd., Mumbai • <i>Financial Accounting</i> by Williams, Tata Mc. Grow Hill and Co. Ltd., Mumbai • <i>Company Accounting Standards</i> by ShrinivasanAnand, Taxman, New Delhi • <i>Financial Accounting</i> by V. Rajasekaran, Pearson Publications, New Delhi • <i>Introduction to Financial Accounting</i> by Horngren, Pearson Publications, New Delhi • <i>Financial Accounting</i> by M. Mukherjee and M. Hanif, Tata McGraw Hill Education Pvt. Ltd., New Delhi • <i>Financial Accounting a Managerial Perspective</i>, Varadraj B. Bapat, MehulRaithatha, Tata McGraw Hill Education Pvt. Ltd., New Delhi 	

Choice Based Credit Grading and Semester System (CBCGS)**T.Y.B.Com. Accounting & Finance Syllabus****To be implemented from the Academic year 2021-2022****Semester VI**

Sr. No.	Course Code	Course Title	Credits	L / Week
1	UAF6CA4	Cost Accounting - IV	3	4
2	UAF6FM3	Financial Management - III	3	4
3	UAF6TX4	Taxation - IV (Indirect Taxes- II)	3	4
4	UAF6SPM	Security Analysis and Portfolio Management	3	4
5	UAF6FA7	Financial Accounting – VII	4	4
6	UAF6PRW	Project Work	4	4

Choice Based Credit Grading and Semester System (CBCGS)**T.Y.B.Com. Accounting & Finance Semester – V Syllabus****To be implemented from the Academic year 2021-2022****1. Elective Courses (EC)****1. Cost Accounting – IV**

1	Preamble of the Syllabus
	<p>B.Com. in Accounting & Finance is an under graduation course of Department of B.Com. (Accounting & Finance), Changu Kana Thakur Arts, Commerce & Science College, New Panvel (Autonomous), Affiliated to University of Mumbai (MH). The course is designed to guide students of B.Com accounting and finance to understand the decision making system followed by management system and learn the budgetary control system and It helps to take decision making. The performance of the learners shall be evaluated into two components i.e. internal and external. The learner's performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.</p>

2	Objectives of the Syllabus
□	To enhance the abilities of learners to develop the concept of budget and budgetary control system.
□	To help for understanding marginal costing system, calculation of PVR, understand the breakeven point.
□	To enhance the ability of the student to understand the decision making System followed by management system.
□	To help to study standard costing and variance analysis.

3	Course Outcomes
□	Understand the calculation of transfer pricing.
□	Learn to calculate marginal costing system, and use it for managerial decision making.
□	Understand how to establish the budget and budgetary control.

4	Detailed Syllabus	
	Cost Accounting – IV	
Sr. No.	Modules / Units	No. of Lectures
1	Budgeting and Budgetary Control	15
	Meaning & objectives, Advantages and limitations of budgets Functional budgets, fixed and flexible budgets Zero based budgeting, performance budgeting Practical problems of preparing flexible budgets and functional budgets	
2	Marginal Costing	15
	Absorption Costing and Marginal Costing Meaning of absorption costing, Introduction to marginal costing Distinction between absorption costing and marginal costing Advantages and limitations of marginal costing Cost Volume and Profit Analysis Break even analysis meaning and graphic presentation Margin of safety Indifference Curve Shut down point Key factor <i>Practical problems based on using the marginal costing formulae and key factor</i>	
3	Managerial Decision Making	15
	Make or buy ; Sales mix decisions ; Exploring new markets Plant shut down decision <i>Practical problems</i>	
4	Standard Costing and Variance Analysis	15
	Preliminaries in installing of a standard cost system Material Cost variance ; Labour cost variance Variable overhead variances; Fixed Overhead variances Sales variances ; Profit variances <i>Practical problems</i>	
5	Transfer Pricing	
	Introduction - Aims and Features, General rules, Cost-based prices, Market-based prices, Marginal cost, Dual pricing, Profit-maximizing transfer prices, Bargaining Transfer, Negotiated transfer prices and other behavioral considerations	

5	Reference Books
	Cost Accounting – IV
	<ul style="list-style-type: none"> • <i>Lectures on Costing by Swaminathan: S. Chand and Company (P) Ltd., New Delhi</i> • <i>Cost Accounting by C.S. Rayudu, Tata Mc. Grow Hill and Co. Ltd., Mumbai</i> • <i>Cost Accounting by JawaharLaland Seema Srivastava, Tata Mc. Grow Hill and Co. Ltd., Mumbai</i> • <i>Cost Accounting by Ravi M. Kishore, Taxmann Ltd., New Delhi</i> • <i>Principles and Practices of Cost Accounting by N.K. Prasad, Book Syndicate Pvt. Ltd., Calcutta</i> • <i>Cost Accounting Theory and Practice by B.K. Bhar, Tata Mc. Grow Hill and Co. Ltd., Mumbai</i> • <i>Cost Accounting Principles and Practice by M.N. Arora, Vikas Publishing House Pvt. Ltd., New Delhi</i> • <i>Advanced Cost and Management Accounting: Problems and Solutions by V.K. Saxena and C.D. Vashist, S. Chand and Company (P) Ltd., New Delhi</i> • <i>Cost Accounting by S.P. Jain and K.L. Narang, Kalyani Publishers, Ludhiana</i> • <i>Modern Cost and Management Accounting by M. Hanif, Tata McGraw Hill Education Pvt. Ltd., New Delhi</i>

Choice Based Credit Grading and Semester System (CBCGS)**T.Y.B.Com. Accounting & Finance Semester – VI Syllabus****To be implemented from the Academic year 2021-2022****1. Elective Courses (EC)****2. Financial Management - III**

1	Preamble of the Syllabus
	<p>B.Com. in Accounting & Finance is an under graduation course of Department of B.Com. (Accounting & Finance), Changu Kana Thakur Arts, Commerce & Science College, New Panvel (Autonomous), Affiliated to University of Mumbai (MH). The course is designed to guide students of B.Com accounting and finance to develop the knowledge of business and financial management decisions which will give the learners a basic understanding of financial management & to learn about merger & acquisition also learn basic understanding of risk management The performance of the learners shall be evaluated into two components i.e. internal and external. The learner's performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks</p>

2	Objectives of the Syllabus
□	To develop the knowledge of business finance and financial management decisions.
□	To learn about merger & acquisition
□	To enable an awareness of the corporate restructuring & takeover
□	To teach a sense of responsibility and a capacity for financial management.

3	Course Outcomes
□	Learn the financial concepts used in making financial management decisions.
□	Learn about working capital financing.
□	Learn basic understanding of risk management
□	Understand the continuous process, managerial decision making to maintain a balance between risk & profitability, coordination process, etc.

4	Detailed Syllabus	
	Financial Management – III	
Sr. No.	Modules / Units	No. of Lectures
1	Business Valuation	05
	Conceptual Framework of Valuation – Book Value, Market Value, Economic Value, Liquidation Value, Replacement Value, Salvage Value, Value of Goodwill and Fair Value Approaches of Valuation – Assets Based Approach to Valuation, Earnings Based Approach to Valuation, Earnings Measure on Cash Flow Basis, Market Value; Added Approach and Economic Value Added.	
2	Mergers and Acquisitions	15
	Introduction- Basic modes of acquiring another firm, Synergy effects, Difference between Merger and Takeover, Advantages of Mergers and Acquisitions, Benefits of Merger for Acquiring firm, Reasons of companies to offer themselves for sale, Reasons for failure of Mergers and Reverse Merger. Commonly Used Bases for determining the Exchange Ratio – EPS, MPS, Book value and Combination of Measures and Evaluation of Mergers (Practical Problems)	
3	Corporate Restructuring and Takeovers	15
	Introduction – Meaning, Need and Importance, Forms of Restructuring, Advantages and Disadvantages Takeovers – Meaning, SEBI Guidelines, Anti-takeover defences and Asset and Liability Restructuring. (Practical Problems)	
4	Lease and Hire Purchase Financing	12
	Introduction – Meaning and Types of Leases, Rationale, Mechanics, Operating Leases, Leasing as Financing Decisions, Calculation of Cash flows of a finance lease. Hire Purchase – Meaning, Need and Importance, Calculation of Hire Purchase instalments. Choice between Leasing and Hire Purchase	
5	Working Capital financing	08
	Introduction – Key features and Characteristics of Trade Credit, Bank Credit, Commercial Papers, Certificate of Deposits and Factoring. Practical Problems based on Factoring and calculations of yield of CP's and CD's	
6	Risk Management	05
	Types of Risk, Evaluation of Risk, Value at Risk	

5	Reference Books
	Financial Management – III
□	<ul style="list-style-type: none"> • <i>Fundamentals of Financial Management by D. Chandra Bose, PHI Learning Pvt. Ltd., New Delhi</i> • <i>Fundamentals of Financial Management by Bhabotosh Banerjee, PHI Learning Pvt. Ltd., New Delhi</i> • <i>Fundamentals of Financial Management by Vyuptakesh Sharma, Pearson Education, New Delhi</i> • <i>Fundamentals of Financial Management by J.C. Van Horne, Prentice Hall of India, New Delhi</i> • <i>Financial Management: Text and Problems by M.Y. Khan and P.K. Jain, Tata McGraw Hill, New Delhi</i> • <i>Financial Management: Theory and Practice by Prasanna Chandra, Tata McGraw Hill, New Delhi</i> • <i>Financial Management by I.M. Pandey, Vikas Publishing House, New Delhi</i> • <i>Financial Management by C. Paramasivan & T. Subramanian</i> • <i>Financial Management by IM Pandey</i> • <i>Financial Management by Ravi Kishor</i> • <i>Financial Management by Khan & Jain</i>

Choice Based Credit Grading and Semester System (CBCGS)**T.Y.B.Com. Accounting & Finance Semester –V Syllabus****To be implemented from the Academic year 2021-2022****1. Elective Courses (EC)****3. Taxation - IV (Indirect Taxes – II)**

1	Preamble of the Syllabus
	B.Com. in Accounting & Finance is an under graduation course of Department of B.Com. (Accounting & Finance), Changu Kana Thakur Arts, Commerce & Science College, New Panvel (Autonomous), Affiliated to University of Mumbai (MH). The course is designed to guide students of B.Com accounting and finance to learn how to pay tax and get refund of the same and to Understand basic Concepts & Principles of Custom Law understand legislation and administration of Foreign Trade Policy. The performance of the learners shall be evaluated into two components i.e. internal and external. The learner's performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.

2	Objectives of the Syllabus
□	To understand how to pay tax and get refund of the same.
□	To Understand basic Concepts & Principles of Custom Law
□	To understand the basic concept & objective concept related FTP

3	Course Outcomes
□	Learn to compute Payment of tax and refund
□	Understand legislation and administration of Foreign Trade Policy.
□	Understand the types of refund.

4	Detailed Syllabus	
	Taxation - IV (Indirect Taxes – III)	
Sr. No.	Modules / Units	No. of Lectures
1	Payment of Tax and Refunds	08
	Payment of Tax, Interest and other Amounts, Interest on delayed Payment, TDS, TCS , Refund of tax, Refund in certain cases, Interest on delayed refunds	
2	Returns	08
	Types of Returns and Provisions relating to filing of Returns	
3	Accounts, Audit, Assessment and Records	08
	Accounts and other records, Period of retention of accounts, Electronic Way Bill Self-Assessment, Provisional Assessment, Scrutiny of Returns, Assessment of nonfilers of Returns, Assessment of Unregistered person, summary assessment in certain special cases, Audit by tax authorities, Special Audit.	
4	Custom Act –I	12
	Introduction to customs law including Constitutional aspects Levy of and exemptions from customs duties – All provisions including application of customs law, taxable event, charge of customs duty, exceptions to levy of customs duty, exemption from custom duty , Types of customs duties, Classification and valuation of imported and export goods	
5	Custom Act – II	12
	Import and Export Procedures – All import and export procedures including special procedures relating to baggage, goods imported or exported by post, stores Provisions relating to coastal goods and vessels carrying coastal goods Warehousing and Drawback, Refund of Export Duty and Import Duty (Sec.26 & 26 A)	
6	Foreign Trade Policy	12
	Introduction to FTP – legislation governing FTP, salient features of an FTP, Foreign Trade Policy 2015- 20, administration of FTP, contents of FTP, scope of FTP. Provision related to import and export of goods Basic concepts relating to export promotion schemes provided under FTP – Duty , Exemption & remission Schemes, Duty Free Import Authorization Scheme, Reward scheme, Export Promotion Capital Goods Scheme, EOU, STP, BTP AND EHTP scheme.	

Note: Relevant Law/statute/Rules in force in force on 1st April immediately preceding the commencement of Academic Year is applicable for ensuring examination after relevant year.

5	Reference Books
	Taxation - IV (Indirect Taxes – III)
	<ul style="list-style-type: none"> • <i>Indirect Taxes: Law and Practice</i> by V.S. Datey, Taxmann • <i>Indirect Taxes</i> by V.S. Balchandra, Sultan Chand and Sons, New Delhi • <i>GST Law & practice with Customs & FTP</i> by V.S. Datey, Taxmann • <i>GST</i> by V.S. Datey, Taxmann • <i>GST & customs Law</i> by K.M. Bansal, University Edition • <i>GST Law & practice with Customs & FTP</i> by VineetSodhani, Snow White Publications • <i>GST Law & practice with Customs & FTP</i> by Sanjiv Agarwal, Snow White Publications • <i>Indirect taxes(Containing GST, Customs & FTP)</i> by MOhd. Rafi, Bharat Publications

Choice Based Credit Grading and Semester System (CBCGS)**T.Y.B.Com. Accounting & Finance Semester –VI Syllabus****To be implemented from the Academic year 2021-2022****1. Elective Courses (EC)****4. Security Analysis and Portfolio Management**

1	Preamble of the Syllabus
	<p>B.Com. in Accounting & Finance is an under graduation course of Department of B.Com. (Accounting & Finance), Changu Kana Thakur Arts, Commerce & Science College, New Panvel (Autonomous), Affiliated to University of Mumbai (MH). The course is designed to guide students of B.Com accounting and finance to provide financial theory and the analytical tools needed to make good investment decisions, analyse and evaluate the performance of an investment manager & analyze bond portfolio management strategies. The performance of the learners shall be evaluated into two components i.e. internal and external. The learner's performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.</p>

2	Objectives of the Syllabus
□	To examine the determinants and behavior of asset prices
□	To provide financial theory and the analytical tools needed to make good investment decisions,
□	To model the relationship between risk and return, optimal portfolio selection, asset pricing models, market efficiency, portfolio performance evaluation, and the theory of active portfolio management.

3	Course Outcomes
□	Learn to describe the steps of the portfolio management process.
□	Understand investment policy recommendations, including the determination of an optimal asset allocation.
□	Learn to analyze and evaluate the performance of an investment manager.
□	Learn to analyze bond portfolio management strategies.
□	Understand the concept of market efficiency.

4	Detailed Syllabus	
	Security Analysis and Portfolio Management	
Sr. No.	Modules/ Units	No. of Lectures
1	Portfolio Management – An Introduction & Process	08
	Investment - Meaning, Characteristics, Objectives, Investment V/s Speculation, Investment V/s Gambling and Types of Investors Portfolio Management – Meaning, Evolution, Phases, Role of Portfolio Managers, Advantages of Portfolio Management. Investment Environment in India and factors conducive for investment in India. Portfolio Analysis – Meaning and its Components, Calculation of Expected Return and Risk, Calculation of Covariance, Risk – Return Trade off. Portfolio Selection – 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 and Risk under Single Index Model and Multi Index Model	
2	Portfolio Management – Valuation	10
	Portfolio Revision – Meaning, Need, Constraints and Strategies. Portfolio Evaluation – Meaning, Need, Measuring Returns (Sharpe, Treynor and Jensen Ratios) and Decomposition of Performance.	
3	Fundamental Analysis	10
	Economy Analysis – Meaning, Framework, Economic Analysis, Forecasting, Barometric or Indicator Approach, Econometric Model Building and Opportunistic Model Building. Industry Analysis – Concept of Analysis, Industry Life Cycle, Industry Characteristics Company Analysis – Financial Statements, Analysis of Financial Statements, (Practical questions on Debt equity ratios, total debt ratio, proprietary ratios, interest coverage ratio, Profitability ratios related to sales, investment and equity shares Efficiency or Activity Ratios) and Assessment of risk(Leverages)	
4	Technical Analysis	10
	Dow Theory; 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 Mathematical Indicators – Calculation of Moving Averages (Simple and Exponential Moving Average), Oscillators and Relative Strength Index Market Indicators; Fundamental Analysis V/s Technical Analysis	
5	Efficient Market Theory & CAPM	12
	Random Walk Theory , The Efficient Market Hypothesis Forms of Market Efficiency , Competitive Market Hypothesis CAPM – 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. Arbitrage Pricing Theory (APT) – The Return Generating Model, Factors Affecting Stock Return, Expected Return on Stock, APT V/s CAPM.	
6	Valuation of equity	05
	Theory of Valuation. & Alternative Valuation Methods	
7	Securitization	05
	Introduction, concepts, benefits, participants, mechanism, pricing of securitization instruments	

5	Reference Books
	Security Analysis and Portfolio Management
	<ul style="list-style-type: none"> • <i>Blake, David 1992, Financial Market Analysis , McGraw Hill London</i> • <i>Francis J.C Investments, Analysis and Management McGraw Hill New York.</i> • <i>Pistolese Clifford Using Technical Analysis Vision Books</i> • <i>Reilly Frank K and Keith Brown Investment Analysis and Portfolio Management.</i>

Choice Based Credit Grading and Semester System (CBCGS)**T.Y.B.Com. Accounting & Finance Semester –V Syllabus****To be implemented from the Academic year 2021-2022****1. Elective Courses (EC)****5. Management Control Systems**

1	Preamble of the syllabus
	<p>B.Com. in Accounting & Finance is an under graduation course of Department of B.Com. (Accounting & Finance), Changu Kana Thakur Arts, Commerce & Science College, New Panvel (Autonomous), Affiliated to University of Mumbai (MH). The course is designed to guide students of B.Com accounting and finance to understand about the management control systems and Learners acquire the knowledge about various approaches of responsibility centre. Learners acquire the knowledge about various approaches of responsibility centre. The performance of the learners shall be evaluated into two components i.e. internal and external. The learner's performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.</p>

2	Objectives of the course
□	To understand about the management control systems
□	To analysis of Incremental ROI, Sensitivity Analysis
□	To know about the approaches of Responsibility Centre
□	To understand the concept & methods of Inflation Accounting

3	Course outcomes
□	Learns would able to understand the management accounting & control systems
□	Understand analytical framework for Developing Responsibility Budget
□	Learners acquire the knowledge about various approaches of responsibility centre
□	Learners know about Financial Reporting to Management

4	Detailed Syllabus	
	Management Control Systems	
Sr. No.	Modules / Units	No. of Lectures
1	Developments in Management Accounting and Control Systems	15
	Introduction- The Modern economic environment, Traditional production processes, The background to change, The new manufacturing computer-aided design, Computer-aided manufacturing, Computer-integrated manufacturing, Flexible manufacturing systems, Value chain, Production operations systems and Management strategies, Material requirements planning, Manufacturing Resources Planning, Optimised Production Technology (OPT), ERP, CRM and SCM Just-in-time concept , Total Quality Management (TQM) and Synchronous Manufacturing. Control in special sectors: Scrap Control, Control of R & D – Project Control, Administrative Cost Control and the emphasis on continuous improvement.	
2	Financial Goal Setting	15
	Analysis of Incremental ROI, Sensitivity Analysis, Developing Financial Goals along Organizational Hierarchy. Concept and Technique of Responsibility Budgeting - Analytical framework for Developing Responsibility Budgets - Integrating Responsibility Budgets Integrating Responsibility Budgeting with MBO System.	
3	Responsibility Centres	15
	Introduction to Cost, Revenue, Profit and Investment Centres, Reporting of Responsibility Centre. Performance Measures -Investment Centres/Strategic Business Units, Return on Investment, The problems with ROI and Residual income (RI)	
4.	Inflation Accounting	15
	Introduction - Need, Brief History, Methods of Inflation Accounting (Current Purchasing Power and Current Cost Accounting), Inflation Accounting and Corporate Taxation. Financial Reporting to Management under conditions of change in price level.	

5	Reference Books
	Management Control Systems
	<ul style="list-style-type: none"> • <i>Anthony & Govindrajana - Management Control Systems (TATA McGraw Hill), 12th Edition, 2006.</i> • <i>Bob Scarlett – Management Accounting and Performance Evaluation, Oxford Press, 2006 Edition</i> • <i>Maciaririllo & Kirby – Management Control Systems (Prentice Hall India), 2th Edition</i>

Choice Based Credit Grading and Semester System (CBCGS)**T.Y.B.Com. Accounting & Finance Semester – VI Syllabus****To be implemented from the Academic year 2021-2022****1. Elective Courses (EC)****6. Economics Paper – III (Indian Economy)**

1	Preamble of the Syllabus
	<p>B.Com. in Accounting & Finance is an under graduation course of Department of B.Com. (Accounting & Finance), Changu Kana Thakur Arts, Commerce & Science College, New Panvel (Autonomous), Affiliated to University of Mumbai (MH). The course is designed to guide students of B.Com accounting and finance to acquire the knowledge of agricultural sector, analyse and learn about the growth & pattern of industrial sector. Learners know about service sector & industrial sector and also about money market and its progress. The performance of the learners shall be evaluated into two components i.e. internal and external. The learner's performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.</p>

2	Objectives of the Syllabus
□	To acquire the knowledge of agricultural sector
□	To learn about the growth & pattern of industrial sector
□	To understand the various aspects of service sector
□	To know about money market, SEBI & policies

3	Course Outcomes
□	Learners would have acquired different aspects of agricultural sector
□	Learners understand the growth of industrial sector leads to development of economy
□	Learners know about service sector & industrial sector
□	Learners know about money market and its progress

4	Detailed Syllabus	
	Economics Paper – III (Indian Economy)	
Sr. No.	Modules / Units	No. of Lectures
1	Introduction Agricultural Sector	15
	Introduction Demographic features- Poverty, Income inequality and Unemployment Urbanization and its effects Agricultural Sector Institutional Structure- Land reforms in India Technological changes in agriculture Agricultural pricing and agricultural finance Agricultural marketing National agricultural policy	
2	Industrial Sector	15
	Growth and pattern of industrialization Industrial Policy of 1991. Public sector enterprises and disinvestment policy Small scale sector- problems and prospects	
3	Service Sector and External Sector	15
	Service Sector Nature and scope of service industry Recent trends in Banking industry, Insurance Industry, Healthcare Industry and Tourism Industry External Sector Structure and directions of Foreign trade India's Balance of payments since 1991 FDI, foreign capital and transnational companies in India. Role and impact of SAARC, ASEAN and WTO	
4	Money and Banking	15
	Money market and its features Monetary policy of RBI Progress of commercial banking in India Development of capital markets SEBI and its functions	

5	Reference Books
	Economics Paper – III (Indian Economy)
□	<ul style="list-style-type: none"> • <i>Indian Economic Survey Reports (Annual), Ministry of Finance, Government of India</i> • <i>Indian Economy by Misra and Puri, Himalaya Publishing House - Delhi</i> • <i>Gaurav Dutt&Ashwini Mahajan, (2016) Indian Economy, S.Chand& company PVT LTD New Delhi</i> • <i>A.N.Agarwal – Indian Economy problems of Development and Planning New Age International Publisher</i> • <i>RuddarDatt K.P.M Sundharam – Indian Economy S. Chand E-co LTD. Delhi</i>

Choice Based Credit Grading and Semester System (CBCGS)**T.Y.B.Com. Accounting & Finance Semester – VI Syllabus****To be implemented from the Academic year 2021-2022****2. Core Courses (CC)****1. Financial Accounting – VII**

1	Preamble of the Syllabus
	<p>B.Com. in Accounting & Finance is an under graduation course of Department of B.Com. (Accounting & Finance), Changu Kana Thakur Arts, Commerce & Science College, New Panvel (Autonomous), Affiliated to University of Mumbai (MH). The course is designed to guide students of B.Com accounting and finance to understand the accounting for branches including foreign branches as well as assets the knowledge of IFRS its Purpose & objectives of financial statement, its Frame work, its assumption, characteristics, element, recognition & measurement. Learners would have prepared final accounts of Co-Operative Housing Society & Consumer Co-Operative Society. The performance of the learners shall be evaluated into two components i.e. internal and external. The learner's performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.</p>

2	Objectives of the Syllabus
□	To know the importance of IFRS and Financial statement as per IFRS norms
□	To understand the allocation of profits and accounts of cooperative housing society
□	To formulate setting up of business in future, investment in share market, companies etc.
□	To enable students, understand the provisions of Indian Electricity Act, 2003 and double accounting system.
□	To understand the accounting for branches including foreign branches.

3	Course Outcomes
□	Understand the concept of IFRS its Purpose & Objective of financial statement, its Frame work, its assumption, characteristics, element, recognition & measurement.
□	Learn to prepare Final Accounts for Electricity Company as per Double Account System
□	Learn to prepare final accounts of Co-Operative Housing Society & Consumer Co-Operative Society.
□	Understand accounting of Foreign Branch and Conversion as per AS 11 and incorporation in HO accounts.

4	Detailed Syllabus	
	Financial Accounting-VII	
Sr. No.	Modules / Units	No. Of Lectures
1	Final Account for Electricity Company	10
	Final Accounts as per Double Account System Final Accounts as per Electricity Rules; Receipt & Expenditure on Capital Account General Balance Sheet; Contingency Reserve; Depreciation; Debt Equity Ratio (for Tariff calculation); Reasonable Return Disposal of Surplus (As per Electricity Rules): Norms regarding Disposal of Surplus Replacement of Assets; Practical problems	
2	Final Accounts for Co-Operative Society: (Co-Operative Housing Society and Consumer Co-Operative Society)	15
	Provisions of Maharashtra State Co-Operative Societies Act and rules. Accounting provisions including appropriation to various funds; Format of Final Accounts – Form N practical problems on preparation of final accounts of a Co-Operative housing society & Consumer Co-Operative Society	
3	Investment Accounting (w.r.t. Accounting Standard - 13)	10
	For shares (variable income bearing securities) For debentures/Preference. shares (fixed income bearing securities) Accounting for transactions of purchase and sale of investments with ex and cum interest prices and finding cost of investment sold and carrying cost as per weighted average method (Excl. brokerage); Columnar format for investment account.	
4	Mutual Fund	05
	Introduction, Historical Background SEBI Guidelines, Organisation, NAC Scheme, Types of Mutual Fund Schemes, , FOF Scheme, Load or No-Load Scheme, Investment Valuation norms, Pricing of units, Contents of Balance sheet and revenue Account, Evaluation of mutual funds, Disposal of Investments, Recognition of Income, Accounting policies and entries.	
5	Introduction to IFRS and Indian Accounting Standards	08
	Accounting standards: Role/objectives of accounting standards, Development of accounting standards in India - Requirements of international accounting standards - International organizations engaged in accounting harmonization - IASB - FASB - Role of IASB in developing IFRS, Applicability, Interpretation, Scope and compliance of AS Indian Accounting standards (Ind AS) : Introduction, Road map, First time adaptation of Indian Accounting Standard, Conceptual framework ; Comparison of Ind AS, IFRS and AS IFRS : Introduction, scope Purpose & Objective of financial statement-its Frame work-its assumption, characteristics, element, recognition & measurement., first time adoption of IFRS Convergence of Ind-As and IFRS	
6	Accounting for Branches including Foreign Branches	12
	Introduction Classification of branches, Distinction between branch accounts and Departmental accounts, Dependent Branches, Method of Charging goods to branches, Accounting for Dependent branches, Accounting for independent branches, Adjustment and reconciliation of branch and head office accounts, Incorporation of branch balance in office books, Incomplete information in branch books, Foreign Branches, Accounting for Foreign Branches, Techniques for foreign currency translation.	

5	Reference Books
	Financial Accounting-VII
□	<ul style="list-style-type: none"> • <i>Introduction to Accountancy by T.S. Grewal, S. Chand and Company (P) Ltd., New Delhi</i> • <i>Advance Accounts by Shukla and Grewal, S. Chand and Company (P) Ltd., New Delhi</i> • <i>Advanced Accountancy by R.L Gupta and M. Radhaswamy, S. Chand and Company (P) Ltd., New Delhi</i> • <i>Modern Accountancy by Mukherjee and Hanif, Tata Mc. Grow Hill and Co. Ltd., Mumbai</i> • <i>Financial Accounting by LesileChandwichk, Pentice Hall of India Adin Bakley (P) Ltd., New Delhi</i> • <i>Financial Accounting for Management by Dr. Dinesh Harsalekar, Multi-Tech. Publishing Co. Ltd., Mumbai</i> • <i>Financial Accounting by P.C. Tulsian, Pearson Publications, New Delhi</i> • <i>Accounting Principles by R.N. Anthony and J.S. Reece, Richard Irwin, Inc</i> • <i>Financial Accounting by Monga, J.R. Ahuja, Girish Ahuja and Ashok Shehgal, Mayur Paper Back, Noida</i> • <i>Compendium of Statement and Standard of Accounting, ICAI</i> • <i>Indian Accounting Standards, Ashish Bhattacharya, Tata Mc. Grow Hill and Co. Ltd., Mumbai</i> • <i>Financial Accounting by Williams, Tata Mc. Grow Hill and Co. Ltd., Mumbai</i> • <i>Company Accounting Standards by ShrinivasanAnand, Taxman, New Delhi</i> • <i>Financial Accounting by V. Rajasekaran, Pearson Publications, New Delhi</i> • <i>Introduction to Financial Accounting by Horngren, Pearson Publications, New Delhi</i> • <i>Financial Accounting by M. Mukherjee and M. Hanif, Tata McGraw Hill Education Pvt. Ltd., New Delhi</i>

Janardan Bhagat Shikshan Prasarak Sanstha's

**CHANGU KANA THAKUR
ARTS, COMMERCE & SCIENCE COLLEGE,
NEW PANVEL (AUTONOMOUS)**

**Re-accredited 'A+' Grade by NAAC
'College with Potential for Excellence' Status Awarded by
UGC**

'Best College Award' by University of Mumbai

**Department of Accounting & Finance
Board of Studies in Accounting & Finance**

**Program: B.Com. Accounting & Finance
Revised Syllabus of T.Y.B.Com. Accounting & Finance
(Sem. V & VI)
Choice Based Credit & Grading System (60:40)
w.e.f. Academic Year 2021-22**

T.Y.B.Com. Accounting & Finance – Sem. VI

**Project Work
Guidelines for Project Work**

Introduction

Inclusion of project work in the course curriculum of the B.Com. (Accounting & Finance) programme is one of the ambitious aspects in the programme structure. The main objective of inclusion of project work is to inculcate the element of research analyse and scientific temperament challenging the potential of learner as regards to his/ her eager to enquire and ability to interpret particular aspect of the study. It is expected that the guiding teacher should undertake the counselling sessions and make the awareness among the learners about the methodology of formulation, preparation and evaluation pattern of the project work.

There are two modes of preparation of project work

1. Project work based on research methodology in the study area
2. Project work based on internship in the study area

Guidelines for preparation of Project Work

1.General guidelines for preparation of project work based on Research Methodology

- The project topic may be undertaken in any area of Elective Courses.
- Each of the learner has to undertake a Project individually under the supervision of a teacher-guide.
- The learner shall decide the topic and title which should be specific, clear and with definite scope in consultation with the teacher-guide concerned.
- College shall allot a guiding teacher for guidance to the students based on her / his specialization.
- The project report shall be prepared as per the broad guidelines given below:
 - Font type: Times New Roman
 - Font size: 12-For content, 14-for Title
 - Line Space : 1.5-for content and 1-for in table work
 - Paper Size: A4
 - Margin : in Left-1.5, Up-Down-Right-1
 - The Project Report shall be bounded.
 - The project report should be 80 to 100 pages

Format

1st page (Main Page)

Title of the problem of the Project

**A Project Submitted to
Changu Kana Thakur Arts, Commerce & Science College,
New Panvel (Autonomous)
for partial completion of the degree of
Bachelor of Commerce (Accounting and Finance)
Under the Faculty of Commerce**

By

Name of the Learner

Under the Guidance of

Name of the Guiding Teacher

Name and address of the College

Month and Year

2nd Page

This page to be repeated on 2nd page (i.e. inside after main page)

On separate page

Index

Chapter No. 1 Title of the Chapter Page No.

(sub point 1.1, 1.1.1,.....And so on)

Chapter No. 2	Title of the Chapter
---------------	----------------------

Chapter No. 3	Title of the Chapter
---------------	----------------------

Chapter No. 4	Title of the Chapter
---------------	----------------------

Chapter No. 5	Title of the Chapter
---------------	----------------------

List of tables, if any, with page numbers.

List of Graphs, if any, with page numbers.

List of Appendix, if any, with page numbers.

Abbreviations used:

Structure to be followed to maintain the uniformity in formulation and presentation of Project Work

(Model Structure of the Project Work)

- **Chapter No. 1: Introduction**

In this chapter Selection and relevance of the problem, historical background of the problem, brief profile of the study area, definition/s of related aspects, characteristics, different concepts pertaining to the problem etc can be incorporated by the learner.

- **Chapter No. 2: Research Methodology**

This chapter will include Objectives, Hypothesis, Scope of the study, limitations of the study, significance of the study, Selection of the problem, Sample size, Data collection, Tabulation of data, Techniques and tools to be used, etc can be incorporated by the learner.

- **Chapter No. 3: Literature Review**

This chapter will provide information about studies done on the respective issue. This would specify how the study undertaken is relevant and contribute for value addition in information/ knowledge/ application of study area which ultimately helps the learner to undertake further study on same issue.

- **Chapter No. 4: Data Analysis, Interpretation and Presentation**

This chapter is the core part of the study. The analysis pertaining to collected data will be done by the learner. The application of selected tools or techniques will be used to arrive at findings. In this, table of information's, presentation of graphs etc. can be provided with interpretation by the learner.

- **Chapter No. 5: Conclusions and Suggestions**

In this chapter of project work, findings of work will be covered and suggestion will be enlisted to validate the objectives and hypotheses.

Note: If required more chapters of data analysis can be added.

- **Bibliography**

- **Appendix**

On separate page

Name and address of the college

Certificate

This is to certify that Ms/Mr_____ has worked and duly completed her/his Project Work for the degree of Bachelor in Commerce (Accounting & Finance) under the Faculty of Commerce in the subject of _____ and her/his project is entitled, “ _____ *Title of the Project* _____ ” under my supervision.

I further certify that the entire work has been done by the learner under my guidance and that no part of it has been submitted previously for any Degree or Diploma of any University/College/Institution.

It is her/ his own work and facts reported by her/his personal findings and investigations.

Name and Signature of Guiding Teacher



Date of submission:

On separate page

Declaration by learner

I the undersigned Miss / Mr. _____ *Name of the learner* hereby, declare that the work embodied in this project work titled “ _____ ”, *Title of the Project* forms my own contribution to the research work carried out under the guidance of _____ is a result of my own research work and has *Name of the guiding teacher* not been previously submitted to any other University/College/Institution for any other Degree/ Diploma to this or any other University. Wherever reference has been made to previous works of others, it has been clearly indicated as such and included in the bibliography.

I, here by further declare that all information of this document has been obtained and presented in accordance with academic rules and ethical conduct.

Name and Signature of the learner

Certified by

Name and signature of the Guiding Teacher

On separate page

Acknowledgment

(Model structure of the acknowledgement)

To list who all have helped me is difficult because they are so numerous and the depth is so enormous.

I would like to acknowledge the following as being idealistic channels and fresh dimensions in the completion of this project.

I take this opportunity to thank the **University of Mumbai & Changu Kana Thakur ACS College, New Panvel (Autonomous)** for giving me chance to do this project.

I would like to thank my **Principal**, _____ for providing the necessary facilities required for completion of this project.

I take this opportunity to thank our **Coordinator** _____, for her moral support and guidance.

I would also like to express my sincere gratitude towards my project guide _____ whose guidance and care made the project successful.

I would like to thank my **College Library**, for having provided various reference books and magazines related to my project.

Lastly, I would like to thank each and every person who directly or indirectly helped me in the completion of the project especially **myParents and Peers** who supported me throughout my project.

2. Guidelines for Internship based project work

- Minimum 20 days/ 100 hours of Internship with an Organisation/ NGO/ Charitable Organisation/ Private firm.
- The theme of the internship should be based on any study area of the elective courses
- Experience Certificate is Mandatory

A project report has to be brief in content and must include the following aspects:

- **Executive Summary:**
A bird's eye view of your entire presentation has to be precisely offered under this category.
- **Introduction on the Company:**
A Concise representation of company/ organization defining its scope, products/ services and its SWOT analysis.
- **Statement and Objectives:**
The mission and vision of the organization need to be stated enshrining its broad strategies.
- **Your Role in the Organisation during the internship:**
The key aspects handled, the department under which you were deployed and brief summary report duly acknowledged by the reporting head.
- **Challenges:**
The challenges confronted while churning out theoretical knowledge into practical world.
- **Conclusion:**
A brief overview of your experience and suggestions to bridge the gap between theory and practice.
- The project report based on internship shall be prepared as per the broad guidelines given below:
 - Font type: Times New Roman
 - Font size: 12-For content, 14-for Title
 - Line Space : 1.5-for content and 1-for in table work
 - Paper Size: A4
 - Margin : in Left-1.5, Up-Down-Right-1 ½ The Project Report shall be bounded.
 - The project report should be of minimum 50 pages

Evaluation pattern of the project work

The Project Report shall be evaluated in two stages viz.	
□ Evaluation of Project Report (Bound Copy)	60 Marks
· Introduction and other areas covered	20 Marks
· Research Methodology, Presentation, Analysis and interpretation of data	30 Marks
· Conclusion & Recommendations	10 Marks
□ Conduct of Viva-voce	40 Marks
· In the course of Viva-voce, the questions may be asked such as importance / relevance of the study, objective of the study, methodology of the study/ mode of Enquiry (question responses)	10 Marks
· Ability to explain the analysis, findings, concluding observations, recommendation, limitations of the Study	20 Marks
· Overall Impression (including Communication Skill)	10 Marks

Note: The guiding teacher along with the external evaluator appointed by the University/ College for the evaluation of project shall conduct the viva-voce examination as per the evaluation pattern

Passing Standard

- Minimum of Grade E in the project component
- In case of failing in the project work, the same project can be revised for ATKT examination.
- Absence of student for viva voce: If any student fails to appear for the viva voce on the date and time fixed by the department such student shall appear for the viva voce on the date and time fixed by the Department, such student shall appear for the viva voce only along with students of the next batch.

Choice Based Credit Grading and Semester System (CBCGS)**T.Y.B.Com. Accounting & Finance Semester –V & VI****To be implemented from the Academic year 2021-2022****Scheme of Evaluation****Scheme of examination for each semester**

The performance of the learners shall be evaluated into two components. The learner's performance shall be assessed by Internal Assessment with 40% marks in the first component. External assessment with 60% marks in the second component. The allocation of marks for the Internal Assessment and Semester End Examinations are as shown below:-

A) Internal Assessment: 40 %**40 Marks*****Internal Assessment- (Courses without Practical Courses)***

Sr. No.	Particular		Marks
01	One periodical class test / online examination to be conducted in the given semester		20 Marks
02	One case study/project with presentation based on the curriculum to be assessed by the teacher concerned		15 Marks
	Presentation	10 Marks	
	Written Document	05 Marks	
03	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
	Total Marks		40 Marks

Internal Assessment-(Courses with Practical)

Sr. No.	Particular		Marks
01	Practical Examination		20 Marks
	Journal	05 Marks	
	Viva Voce	05 Marks	
	Laboratory Work	10 Marks	
02	One case study/project with presentation based on the curriculum to be assessed by the teacher concerned		15 Marks
	Presentation	10 Marks	
	Written Document	05 Marks	
03	Active participation in routine class instructional deliveries and Overall conduct as a responsible learner, mannerism and articulation and exhibit leadership qualities in organizing related academic activities		05 Marks
	Total Marks		40 Marks

Question Paper Pattern**(Periodical Class Test for the Courses at Under Graduate Programmes)**

Maximum Marks: 20

Questions to be set: 02

Duration: 40 Minutes

All Questions are Compulsory

Question No	Particular	Marks
Q-1	Match the Column / Fill in the Blanks / Multiple Choice Questions/ Answer in One or Two Lines (Concept-based Questions) (1 Marks / 2 Marks each)	10 Marks
Q-2	Answer in Brief (Attempt any Two of the Three) (5 Marks each)	10 Marks

B) Semester End Examination: 60 %**60 Marks**

- i) Duration: The examination shall be of 2 Hours duration
- ii) Theory question paper pattern
 - There shall be four 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.

Question Paper Pattern (Practical Courses)

Maximum Marks: 60

Questions to be set: 04

Duration: 2 Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question No	Particular	Marks
Q-1	Full Length Practical Question	15 Marks
	OR	
Q-1	Full Length Practical Question	15 Marks
Q-2	Full Length Practical Question	15 Marks
	OR	
Q-2	Full Length Practical Question	15 Marks
Q-3	Full Length Practical Question	15 Marks
	OR	
Q-3	Full Length Practical Question	15 Marks
Q-4	Objective Questions (*Multiple choice / True or False / Match the columns/Fill in the blanks/Short Questions.)	15 Marks
	OR	15 Marks
Q-4	Short Notes (Any three out of five)	

Note:

The 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 maybe asked.

Question Paper Pattern (Theoretical Courses)

Maximum Marks: 60

Questions to be set: 04

Duration: 2 Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question No	Particular	Marks
Q-1	Full Length Question	15 Marks
	OR	
Q-1	Full Length Question	15 Marks
Q-2	Full Length Question	15 Marks
	OR	
Q-2	Full Length Question	15 Marks
Q-3	Full Length Question	15 Marks
	OR	
Q-3	Full Length Question	15 Marks
Q-4	Objective Questions (*Multiple choice / True or False / Match the columns/Fill in the blanks/Short Questions.)	15 Marks
	OR	
Q-4	Short Notes (Any three out of five)	15 Marks

Note:

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

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 a minimum of 40% marks (i.e. 16 out of 40) in the Internal Assessment and 40% marks in Semester End Examination (i.e. 24 Out of 60) 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.



Janardan Bhagat Shikshan Prasarak Sanstha's

**CHANGU KANA THAKUR
ARTS, COMMERCE & SCIENCE COLLEGE, NEW PANVEL (AUTONOMOUS)**

**Re-accredited 'A+' Grade by NAAC
'College with Potential for Excellence' Status Awarded by UGC
'Best College Award' by University of Mumbai**

Department of Accounting & Finance

Board of Studies in Accounting & Finance

Program: Master of Commerce – Business Analytics

**Syllabus of M.Com. Business Analytics Part - I
Choice Based Credit & Grading System (60:40)
w.e.f. Academic Year 2023-24**

Sr. No.	Heading	Particulars
1	Title of Programme	M.Com. (Business Analytics)
2	Eligibility for Admission	Commerce and Science Graduate from any recognized University
3	Passing marks	40%
4	Ordinances/Regulations (if any)	---
5	No. of Semesters	Four
6	Level	P.G.
7	Pattern	Semester (60:40)
8	Status	Revised
9	To be implemented from Academic year	2023-2024

Programme - M.Com. (Business Analytics)

Preamble

The M.Com. (Business Analytics) programme is started with an aim to produce ethical business analytical post-graduates who have the academic and professional base of knowledge to meet the challenges posed by a dynamic global business environment through our teaching, service and research.

The main objectives of the Program are:

- To demonstrate the proficiency in data analysis methods and in data analytic tools.
- To learn and demonstrate practical knowledge of functional areas of business operation, Statistics & Econometrics
- To understand business applications, concept development and effective interpretation to solve business problems.
- To develop the ability to deal with numerical and quantitative problems in business.
- enhance the knowledge of the concept & query of Structured Query Language
- To define and identify the core areas of a business modelling & Financial Modelling by using different tools
- To equip the learners with theoretical and practical skills in Artificial Intelligence & Business Intelligence.
- To equip learners with financial analytics, HR Analytics, Marketing & supply chain Management
- To enhance the knowledge of cost & Management Accounting & also preparation of financial statements by adopting Indian Accounting Standard

Programme Outcomes

PO1-Disciplinary knowledge: Capable to demonstrate comprehensive knowledge of Accountancy, Commerce and Management.

PO2-Communication Skills: Develop ability to express thoughts and ideas effectively in writing and oral related to business Communication.

PO3-Critical thinking: Ability to recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.

PO4-Problem solving: Ability to think rationally, analyze situations and solve problems adequately.

PO5- Research-related skills: Able to create a sense of inquiry and capability for asking relevant and appropriate questions related to Accountancy, Commerce and Management.

PO6- Cooperation/Team work: To work effectively and respectfully in different groups in the society and able to facilitate cooperative efforts as a member of a team.

PO7- Scientific reasoning: Ability to critically analyze, interpret data and draw conclusions with open mind in the field of Accountancy, Commerce and Management.

PO8-Information/digital literacy: Ability to use ICT effectively to access, evaluate and analysis of data in the field of accountancy, commerce and management.

PO9-Self-directed learning: Create ability to work independently for a project and manage a project through to completion in the field of accountancy, commerce and management.

PO10- Multicultural competence: Able to demonstrate commerce, management values and beliefs to the multiple cultural and global groups.

PO11- Social Interaction: Ability to elicit views of others, mediate disagreements and help reach conclusions in group setting.

Programme Specific Outcomes

Name of the Programme: M. Com. Business Analytics	Programme Coordinator: Dr. N. E. Koli	Head of the Department: Dr. N. E. Koli
	After completing the Programme in M. Com. Business Analytics, Student will able to:	
PSO1	Acquire conceptual, fundamental and application-based knowledge in Business Analytics, Data Science, Business Intelligence, Artificial Intelligence, Financial Modelling, Business Modelling, Financial analytics, HR and Marketing Analytics.	
PSO2	Apply data visualization tools for development of Business modelling & Financial Modelling.	
PSO3	Prepare, analyze, Evaluate and interpret financial statements as per Indian AS by applying critical thinking skills, analytical skills and problem-solving skills.	
PSO4	Analyze the Human Resources, Marketing & supply chain management model through big data and data mining techniques	

Choice Based Credit Grading and Semester System (CBCGS)
M.Com. (Business Analytics) Part – I Semester I & II Syllabus
To be implemented from the Academic year 2023-2024
Course Structure

M.Com. – Business Analytics Part - I

No. of Courses	Semester I	Credits	No. of Courses	Semester II	Credits
1	<i>Discipline Specific Course (Major)</i>		1	<i>Discipline Specific Course (Major)</i>	
1	Introduction to Business Analytics & Data Science	04	1	Business Application of Block Chain Technologies	04
2	Business Intelligence	04	2	Business Modelling	04
3	Statistics & Econometrics	04	3	Quantitative techniques for Managers	04
4	R Programming	02	4	Python Programming	02
2	<i>Discipline Specific Course (Minor)</i>		2	<i>Discipline Specific Course (Minor)</i>	
5	Research Methodology	04		---	
3	<i>Discipline Specific Course (Elective)</i>		3	<i>Discipline Specific Course (Elective)</i>	
6	Strategic Cost Accounting	04	5	Financial Reporting	02
4	<i>OJT/ FP/CEP/RP</i>		4	<i>OJT/ FP/CEP/RP</i>	
	---		6	On Job Training	04
Total Credits		22	Total Credits		22

M.Com. – Business Analytics Part - II

No. of Courses	Semester III	Credits	No. of Courses	Semester IV	Credits
1	<i>Discipline Specific Course (Major)</i>		1	<i>Discipline Specific Course (Major)</i>	
1	Big Data Analytics	04	1	Financial & Credit Risk Analytics	04
2	Artificial Intelligence & Machine Learning	04	2	Marketing & Supply Chain Management Analytics	04
3	Financial Modelling	04	3	Data mining Techniques	04
4	Human Resource Analytics	02	4	Retail Analytics	02
2	<i>Discipline Specific Course (Elective)</i>		2	<i>Discipline Specific Course (Elective)</i>	
5	Taxation	04	5	Strategic Financial Management	04
3	<i>OJT/ FP/CEP/RP</i>		3	<i>OJT/ FP/CEP/RP</i>	
6	Research Project	04	6	Research Project	04
Total Credits		22	Total Credits		22

Choice Based Credit Grading and Semester System (CBCGS)
M.Com. (Business Analytics) Part – I Semester I Syllabus
To be implemented from the Academic year 2023-2024

M.Com. – Business Analytics Part - I

Course Structure

No. of Courses		Semester I	Credits	L / Week
1		<i>Discipline Specific Course (Major)</i>		
1	PAF1BDS	Introduction to Business Analytics & Data Science	4	4
2	PAF1BIN	Business Intelligence	4	4
3	PAF1SAE	Statistics & Econometrics	4	4
4	PAF1RPG	R Programming	2	2
2		<i>Discipline Specific Course (Minor)</i>		
5	PAF1RMD	Research Methodology	4	4
3		<i>Discipline Specific Course (Elective)</i>		
6	PAF1SCA	Strategic Cost Accounting	4	4
		Total Credits	22	

Choice Based Credit Grading and Semester System (CBCGS)
M.Com. (Business Analytics) Part – I Semester I Syllabus
To be implemented from the Academic year 2023-2024

1. Introduction to Business Analytics & Data Science

1	Preamble of the syllabus
	<p>M.Com.in Business Analytics is a post-graduate Programme of Department Accounting & Finance, Changu Kana Thakur Arts, Commerce & Science College, New Panvel. (Autonomous) affiliated to University of Mumbai (MH) The Choice Based Credit, Grading and Semester System to be implemented through this curriculum, would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. The students pursuing this course would have to develop understanding of various aspects of the business analytics & data science. It helps to understand the Role of Business Analyst and Data Science in business, also make an application of Data Science for Project Life Cycle. The performance of the learners shall be evaluated into two components i.e., internal and external. The learner's Performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.</p>

2	Objectives of the course
▮	To understand the Role of Business Analyst and Data Science in business.
▮	To describe the basic concept of data management, data mining techniques and machine learning
▮	To make a use the application of business analysis.
▮	To make an application of Data Science for Project Life Cycle.

3	Outcomes of the course	Bloom Taxonomy
	The students will be able to	
▮	Describe the basics of business analysis and Data Science	Remember
▮	Interpret data management and handling and Data Science Project Life Cycle	Understand
▮	Discuss the machine learning concept	Understand
▮	Evaluate the data mining techniques	Evaluate

Choice Based Credit Grading and Semester System (CBCGS)
M.Com. (Business Analytics) Part – I Semester I Syllabus
To be implemented from the Academic year 2023-2024

1. Introduction to Business Analytics & Data Science

4. Modules at a Glance

S. N	Modules	No. of Lectures
1	Introduction	05
2	Data	10
3	Introduction to Data Mining	15
4	Introduction to Machine Learning	15
5	Application of Business Analysis	15
Total		60

5. Detailed Syllabus

S.N	Modules/ Units
1	Introduction to Business Analytics
	<ul style="list-style-type: none">• Concept of business analytics• Historical Overview of data analysis• Data Scientist vs. Data Engineer vs. Business Analyst• Career in Business Analytics• Data science• Applications for data science• Data Scientists Roles and Responsibility
2	Data
	<ul style="list-style-type: none">• Data Collection; Data Management; Big Data Management• Organization/sources of data; Importance of data quality• Dealing with missing or incomplete data• Data Visualization• Data Classification Data Science Project Life Cycle: Business Requirement• Data Acquisition; Data Preparation• Hypothesis and Modeling; Evaluation and Interpretation• Deployment; Operations; Optimization
3	Introduction to Data Mining
	<ul style="list-style-type: none">• The origins of Data Mining• Data Mining Tasks• OLAP and Multidimensional data analysis• Basic concept of Association Analysis and Cluster Analysis
4	Introduction to Machine Learning
	<ul style="list-style-type: none">• History and Evolution• AI Evolution• Statistics Vs Data Mining Vs Data Analytics Vs, Data Science ,Supervised Learning• Unsupervised Learning; Reinforcement Learning• Frameworks for building Machine Learning Systems.
5	Application of Business Analysis
	<ul style="list-style-type: none">• Retail Analytics; Marketing Analytics• Financial Analytics• Healthcare Analytics• Supply Chain Analytics

6. References Books

Introduction to Business Analytics & Data Science

- *Introduction to Data Mining, Pang-Ning Tan, Michael Steinbach, Vipin Kumar, Pearson Education India.*
- *An Introduction to Business Analytics, Ger Koole, Lulu.com, 2019*
- *Business Analytics – U Dinesh Kumar*

Choice Based Credit Grading and Semester System (CBCGS)

M.Com. Business Analytics Part – I Semester I Syllabus

To be implemented from the Academic year 2023-2024

2. Business Intelligence

1	Preamble of the syllabus
	M.Com. in Business Analytics is a post-graduate Programme of Department Accounting & Finance, Changu Kana Thakur Arts, Commerce & Science College, New Panvel. (Autonomous) affiliated to University of Mumbai (MH) The Choice Based Credit, Grading and Semester System to be implemented through this curriculum, would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. The students pursuing this course would have to develop understanding of various aspects of Business Intelligence. It helps to identify the technological architecture that makes up BI systems, also helps to understand the concepts and components of Business Intelligence (BI). The performance of the learners shall be evaluated into two components i.e., internal and external. The learner's Performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.

2	Objectives of the course
	To identify the technological architecture that makes up BI systems.
	To understand the concepts and components of Business Intelligence (BI)
	To understand and use the technologies and tools that make up BI (e.g., Data warehousing, Data reporting and use of Online analytical processing (OLAP).
	To evaluate use of BI for supporting decision making in an organization.

3	Outcomes of the course	Bloom Taxonomy
	The students will be able to:	
	Identify the decision-making capabilities in the business intelligence architecture and implement activities.	Apply
	Categorize and assess consumer behavior and its influence on firm and household decisions.	Analyze
	Evaluate the moral challenges involving best practices of ethical behavior.	Evaluate
	Develop the data analysis framework for optimal performance.	Create

Choice Based Credit Grading and Semester System (CBCGS)

M.Com. Business Analytics Part – I Semester I Syllabus

To be implemented from the Academic year 2023-2024

2. Business Intelligence

4. *Modules at a Glance*

SN	Modules	No. of Lectures
1	Understanding Business Intelligence	10
2	Business Intelligence Technology Counterparts	15
3	Business Intelligence User Interfaces	15
4	On-Line Analytical Processing (OLAP)	15
5	Business Intelligence: The Future – Is it for you?	5
Total		60

5. Detailed Syllabus

SN	Modules/ Units
1	Understanding Business Intelligence
	<ul style="list-style-type: none"> • The Challenge of Decision Making • Introduction to Business Intelligence • The Business Intelligence Value Proposition • The Combination of Business and Technology
2	Business Intelligence Technology Counterparts
	<ul style="list-style-type: none"> • Data Warehousing: What Is a Data Warehouse? Data Marts and Analytical Data, Organization of the Data Warehouse • Enterprise Resource Planning: Distributing the Enterprise, First ERP, then Business Intelligence, The Current State of Affairs • Customer Relationship Management: CRM, ERP, and Business Intelligence, Customer Decisions, Decisions About Customers • Business Intelligence and Financial Information
3	Business Intelligence User Interfaces
	<ul style="list-style-type: none"> • Querying and Reporting • Reporting and Querying Toolkits • Basic Approaches: Building Ad-Hoc Queries, Building On-Demand Self-Service Reports, Enhancing and Modifying • Data Access: Pull-Oriented Data Access, Push-Oriented Data Access • Dashboards: EIS Is the Engine, Metric System and KPIs, Business Intelligence Dashboards
4	On-Line Analytical Processing (OLAP)
	<ul style="list-style-type: none"> • OLAP? OLAP and OLTP, Operational Data Stores, Variations in Data and Approach • OLAP Applications and Functionality • Multi-Dimensions: Thinking in More Than Two Dimensions, What Are the Possibilities? Drilling and Pivoting • OLAP Architecture: Cubism, Tools, ROLAP, MOLAP, HOLAP • Data Mining: What Is in the Mine? Start with a Question, Examples
5	Business Intelligence: The Future – Is it for you?
	<ul style="list-style-type: none"> • Customizing Business Intelligence • The Business Intelligence Project Plan: Planning the Plan, Resources and Roles, Risk Management, Data Migration Issues • Human Factors: The Business Intelligence Technology Team. • “Could Be” as opposed to “Should Be” • Choosing the Right Size, Shape, and Cost, Architecture Alternatives, User-Oriented Architecture • Best Practices

6. Reference Books

Business Intelligence

- *Successful Business Intelligence*, Mc Graw Hill Education, By Clindi Howson.
- *Business Intelligence: The Savvy Manager's Guide* by David Loshin
- *Business Intelligence RoadMap*, by Larissa T. Moss (Author), Shaku Atre (Author), Edward Yourdon
- *Business Intelligence Clinic* by Roger F. Silva

Choice Based Credit Grading and Semester System (CBCGS)

M.Com. (Business Analytics) Part – I Semester I Syllabus

To be implemented from the Academic year 2023-2024

3.Statistics & Econometrics

1	Preamble of the syllabus
	M.Com. in Business Analytics is a post-graduate Programme of Department Accounting & Finance, Changu Kana Thakur Arts, Commerce & Science College, New Panvel. (Autonomous) affiliated to University of Mumbai (MH) The Choice Based Credit, Grading and Semester System to be implemented through this curriculum, would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. The students pursuing this course would have to develop understanding of various aspects of Statistics & econometrics. It helps to describe the behavior of a forthcoming period that is forecasting economic phenomena, also evaluate relationships between economic variables through statistical techniques. The performance of the learners shall be evaluated into two components i.e., internal and external. The learner's Performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.
2	Objectives of the course
□	To describe the behavior of a forthcoming period that is forecasting economic phenomena.
□	To apply statistical methods and mathematics to economic data.
□	To evaluate relationships between economic variables through statistical techniques.
□	To develop in students the data analysis and interpretation skill with a theoretical background.

3	Outcomes of the course	Bloom Taxonomy
	The students will be able to	
□	Discuss the various concepts of Econometrics	Understand
□	Calculate probability distribution, Continuous Random Variables & Probability Distribution, Normal Distribution.	Apply
□	Analyze the variances by using ANOVA.	Analyse
□	Critically evaluate uses (and misuses) of statistics.	Evaluate

Choice Based Credit Grading and Semester System (CBCGS)

M.Com. (Business Analytics) Part – I Semester I Syllabus

To be implemented from the Academic year 2023-2024

3.Statistics & Econometrics

4.Modules at a Glance

S. N	Modules	No. of Lectures
1	Introduction	15
2	Probability Distribution & Statistical Inference	15
3	Statistical Methods – I	15
4	Statistical Methods – II	15
Total		60

5.

Detailed Syllabus

SN	Modules/ Units
1	Introduction
	<ul style="list-style-type: none"> • Introduction to Statistics • Introduction to Econometrics • Organization & Presentation of Data. Summarizing Data through Descriptive Statistics
2	Probability Distribution & Statistical Inference
	<ul style="list-style-type: none"> • Variables: Discrete Random Variable • Distribution: Probability Distribution, Continuous Random Variables & Probability Distribution, Normal Distribution • Statistical Inference: Introduction, Estimation & Hypothesis Testing, Relationship between Qualitative and Quantitative Variables
3	Statistical Techniques I
	<ul style="list-style-type: none"> • Variance: Variance and its analysis, One-way ANOVA, Two-way ANOVA, Analysis of Covariance • Index Numbers, Classical Time series Analysis • Linear Regression
4	Statistical Methods II
	<ul style="list-style-type: none"> • Hypothesis testing with CNLRM, Violation of CLRM Assumptions, Time series Regression with Stationary Data and Non-Stationary Data • Binary independent variable and limited dependent variable models • Simultaneous Equations Model and Panel Data & Program Evaluation Technique

6. Reference Books

Statistics & Econometrics

- *Introduction to Statistics and Econometrics - Takeshi Amemiya*
- *A guide to basic econometrics techniques – Elia Kacapyr*
- *A practical guide to using econometrics – A. H. studenmund*
- *Probability, Statistics and Econometrics – oliver linton*

Choice Based Credit Grading and Semester System (CBCGS)

M.Com. (Business Analytics) Part – I Semester I Syllabus

To be implemented from the Academic year 2023-2024

4. R Programming

1	Preamble of the syllabus
	M.Com. in Business Analytics is a post-graduation course of Department Accounting & Finance, Changu Kana Thakur Arts, Commerce & Science College, New Panvel. (Autonomous) affiliated to University of Mumbai (MH) The Choice Based Credit, Grading and Semester System to be implemented through this curriculum, would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. The students pursuing this course will get knowledge of basics of statistical computing and data analysis. They will also understand use of R analytical programming, they will able to implement R programming in statistics The performance of the learners shall be evaluated into two components i.e., internal and external. The learner's Performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.

2	Objectives of the Course
	To study basics of statistical computing and data analysis
	To understand use of R analytical programming
	To implement R programming in statistics
	To design and write efficient programs using R to perform routine and specialized data manipulation and analysis tasks

3	Outcomes of the Course	Bloom Taxonomy
	The students will be able to:	
	Define basics of statistical computing and data analysis	Remember
	Apply R programming in statistics	Apply
	Analyze use of R analytical programming	Analyze
	Design and write efficient programs using R to perform routine and specialized data management and analysis tasks	Create

Choice Based Credit Grading and Semester System (CBCGS)

M.Com. (Business Analytics) Part – I Semester I Syllabus

To be implemented from the Academic year 2023-2024

4. R Programming

4.Modules at a Glance

SN	Modules	No. of Lectures
1	Introduction	08
2	Data Visualization using R	12
3	Statistics with R	10
Total		30

5. Detailed Syllabus

SN	Modules/ Units
1	Introduction
	<ul style="list-style-type: none"> Overview of R programming, Environment setup with R Studio, R Commands, Variables and Data Types, Control Structures, Array, Matrix, Vectors, Factors, Functions, R packages.
2	Data Visualization using R
	<ul style="list-style-type: none"> Reading and getting data into R (External Data): Using CSV files, XML files, Web Data, JSON files, Databases, Excel files. Working with R Charts and Graphs: Histograms, Boxplots, Bar Charts, Line Graphs, Scatterplots, Pie Charts
3	Statistics with R & Prescriptive Analytics
	<ul style="list-style-type: none"> Statistics with R: Random Forest, Decision Tree, Normal and Binomial distributions, Time Series Analysis, Linear and Multiple Regression, Logistic Regression, Statistics with R Prescriptive Analytics: Creating data for analytics through designed experiments, creating data for analytics through active learning, Creating data for analytics through reinforcement learning

6. References Books

R Programming
<ol style="list-style-type: none"> 1. Jared P Lander, <i>R for everyone: advanced analytics and graphics</i>, Pearson Education 2. Dunlop, Dorothy D., and Ajit C. Tamhane. <i>Statistics and data analysis: from elementary to intermediate</i>. Prentice Hall 3. G Casella and R.L. Berger, <i>Statistical Inference</i>, Thomson Learning 4. P. Dalgaard. <i>Introductory Statistics with R</i>

Choice Based Credit Grading and Semester System (CBCGS)

M.Com. (Business Analytics) Part – I Semester I Syllabus

To be implemented from the Academic year 2023-2024

5. Research Methodology

1	Preamble of the syllabus
	M.Com. in Business Analytics is a post-graduate Programme of Department Accounting & Finance, Changu Kana Thakur Arts, Commerce & Science College, New Panvel. (Autonomous) affiliated to University of Mumbai (MH) The Choice Based Credit, Grading and Semester System to be implemented through this curriculum, would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. The students pursuing this course would have to develop understanding of various aspects of the research methodology. It helps to analyze and enhance the ability of learners for better understanding, interpretation, analysis, and presentation of Research Report. The performance of the learners shall be evaluated into two components i.e., internal and external. The learner's Performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.

2	Objectives
	To enhance the abilities of learners to undertake research in business & social sciences
	To enable the learners to understand, develop and apply the fundamental skills in formulating research problems
	To enable the learners in understanding and developing the most appropriate methodology for their research
	To make the learners familiar with the basic statistical tools and techniques applicable for research

3	Course Outcomes	Bloom Taxonomy
	Students will able to:	
	Describe various aspects of research methodology	Remember
	Design the research in research methodology in accounting and finance	Create
	Analyze the data collected & process for drawing conclusion	Analyse
	Apply various statistical tools in research	Apply
	Develop research report writing skill	Create

Choice Based Credit Grading and Semester System (CBCGS)

M.Com. (Business Analytics) Part – I Semester I Syllabus

To be implemented from the Academic year 2023-2024

5. Research Methodology

4. Modules at a Glance

SN	Modules	No. of Lectures
1	Introduction to Research	15
2	Research Process	15
3	Data Processing and Statistical Analysis	15
4	Research Reporting and Modern Practices in Research	15
Total		60

SN	Modules/ Units
1	Introduction to Research
	<ul style="list-style-type: none"> • Features and Importance of research in business, Objectives and Types of research- Basic, Applied, Descriptive, Analytical and Empirical Research. • Formulation of research problem, Research Design, significance of Review of Literature • Hypothesis: Formulation, Sources, Importance and Types • Sampling: Significance, Methods, Factors determining sample size
2	Research Process
	<ul style="list-style-type: none"> • Stages in Research process • Data Collection: Primary data: Observation, Experimentation, Interview, Schedules, Survey, • Limitations of Primary data • Secondary data: Sources and Limitations, • Factors affecting the choice of method of data collection. • Questionnaire: Types, Steps in Questionnaire Designing, Essentials of a good questionnaire
3	Data Processing and Statistical Analysis
	<ul style="list-style-type: none"> • Data Processing: Significance in Research, Stages in Data Processing: Editing, Coding, Classification, Tabulation, Graphic Presentation • Statistical Analysis: Tools and Techniques, Measures of Central Tendency, Measures of Dispersion, Correlation Analysis and Regression Analysis, Probability • Testing of Hypotheses – <ul style="list-style-type: none"> • Parametric Test-t test, f test, z test • Non-Parametric Test -Chi square test, ANOVA, Factor Analysis • Interpretation of data: significance and Precautions in data interpretation
4	Research Reporting and Modern Practices in Research
	<ul style="list-style-type: none"> • Research Report Writing: Importance, Essentials, Structure/ layout, Types • References and Citation Methods: <ul style="list-style-type: none"> • APA (American Psychological Association) • CMS (Chicago Manual Style) • MLA (Modern Language Association) • Footnotes and Bibliography • Modern Practices: Ethical Norms in Research, Plagiarism, Role of Computers in Research

6. References Books

Cost & Management Accounting

- *Research Methodology, Methods & Techniques, C R Kothari*
- *Research Methods in Accounting, Malcolm Smith*
- *Research Methods and Methodology in Finance and Accounting, by Viv Beattie and Bob Ryan*
- *Research Methodology, Techniques and Methods, S. K. Acharya*

Choice Based Credit Grading and Semester System (CBCGS)

M.Com. (Business Analytics) Part – I Semester I Syllabus

To be implemented from the Academic year 2023-2024

6. Strategic Cost Accounting

1	Preamble of the syllabus
	<p>M.Com. in Business Analytics is a post-graduate Programme of Department Accounting & Finance, Changu Kana Thakur Arts, Commerce & Science College, New Panvel. (Autonomous) affiliated to University of Mumbai (MH) The Choice Based Credit, Grading and Semester System to be implemented through this curriculum, would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. The students pursuing this course would have to develop understanding of various aspects of the Cost & Management Accounting. It helps to enhance the abilities of learners to develop the concept of Black flush Accounting, Pareto Analysis, and Throughput Accounting & Balance sheet scorecard, also to accumulate, allocate and ascertain cost of the product by applying marginal costing techniques. The performance of the learners shall be evaluated into two components i.e., internal and external. The learner's Performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.</p>

2	Objectives of the Course
	<p>☐ To enhance the abilities of learners to develop the concept of Black flush Accounting, Pareto Analysis, Throughput Accounting & Balance sheet scorecard</p>
	<p>☐ To accumulate, allocate and ascertain cost of the product by applying marginal costing techniques and cost control through standard costing.</p>
	<p>☐ To enable learners to use proactive cost planning, cost management, and cost reduction practices where costs are planned and calculated early in the design and development cycle.</p>
	<p>☐ To identify the benefits, and essentials of success of measuring and reporting of costs by managerial levels of responsibility.</p>

3	Outcomes of the Course	Bloom Taxonomy
	The students will be able to:	
	☐ Apply cost accounting methods to evaluate and project business performance.	Apply
	☐ Classify the cost of product, apportionment of cost of product.	Analyse
	☐ Calculate total cost of the product for fixing selling price.	Apply
	☐ Determine the target cost.	Evaluating

Choice Based Credit Grading and Semester System (CBCGS)

M.Com. (Business Analytics) Part – I Semester I Syllabus

To be implemented from the Academic year 2023-2024

6.Strategic Cost Accounting

4.Modules at a Glance

S. N	Modules	No. of Lectures
1	Marginal costing techniques	10
2	Cost Control through Standard Costing	10
3	Target Costing	10
4	Responsibility Accounting & Divisional Profitability	12
5	Backflush Accounting & Resources Consumption Accounting	08
6	Pareto analysis, Throughput Accounting & Balanced Score card	10
Total		60

5.

Detailed Syllabus

S. N	Modules/ Units
1	Marginal costing techniques
	<ul style="list-style-type: none"> • Marginal Cost & marginal Costing; Absorption Costing; Contribution & profit • Impact on profit of Absorption costing and marginal costing, • Hypothetical statements of cost & profit, Practical Applications of marginal costing technique • Breakeven Analysis; Cash Breakeven and indifference analysis • Profit/Volume ratio; Margin of safety, Angle of incidence, • Relationship among BEP; MOS & AOI; Impact of selling price • Fixed cost and variable cost & Cost – Volume – Profit Analysis.
2	Cost Control through Standard Costing
	<ul style="list-style-type: none"> • Calculate advanced variances • Interpret Identify the relationship of variances • Standard costing method incl. Reconciliation of Budgeted and Actual Profit, • Issues involved in changing mix i.e., cost, quality & Performance measurement issues and Variance analysis to assess future performance.
3	Target Costing
	<ul style="list-style-type: none"> • Concept and Benefits of Target costing, • Steps in Target costing, Target cost management and methodology, • Methods of establishment of target cost & ascertainment of total target cost.
4	Responsibility Accounting & Divisional Profitability
	<ul style="list-style-type: none"> • Responsibility Accounting – Meaning, Features, Objective, Assumptions, Problems, Responsibility Centre's – Cost, Profit, Revenue and Investment. • Concept of Controllability – Introduction, Measuring Managerial Performance, Preparation of Managerial Reports using Segmented Costs and Controllable costs approach • Divisional Income Statement & Divisional Profitability under ROCE Method & Residual Income Method
5	Backflush Accounting & Resources Consumption Accounting
	<ul style="list-style-type: none"> • Benefits, Problems, variants & inventory valuation of Backflush Accounting, Meaning, Advantages, Difficulties & Methodology in implementation of RCA
6	Pareto analysis, Throughput Accounting & Balanced Score card
	<ul style="list-style-type: none"> • Meaning, usefulness & practical applications of Pareto Analysis, Concepts, Meaning & Problems in Throughput Accounting, • Distinction between Product costing & throughput Accounting Bottlenecks and overhead accounting Meaning, benefits, Limitations, Perspectives & stages in developing Balanced Score card (BSC) Performance measures BSC and improvement of strategic Performance

6. References Books

Cost & Management Accounting

- *Taxman's CRAKER for Cost & Management Accounting – ICAI Intermediate*
- *Cost and Management Accounting, oxford by J.K Mitra*
- *Cost and Management Accounting, Ravi M. Kishor*
- *Cost Management by Saxena & Vashist*
- *Cost & Management Accounting by Ravi N.Kishor ,Publication Taxmonth*
- *Essential of Management Accounting by P.N.Reddy,Himalaye*
- *Advanced Management Accounting by Robert S Kailar,Holl*
- *Financial Of Management Accounting by S.R.Varshney,Wisdom*
- *Introduction Of Management Accounting by Charbs T Horngam, PHI Learnng*
- *Management Accounting by I.m.Pandey, Vikas*
- *Cost & Management Accounting by D.K.Mattal,Galgotia*
- *Management Accounting by Khan & Jain,Tata Megaw*
- *Management Accounting by R.P.Resstogi*

Choice Based Credit Grading and Semester System (CBCGS)

M.Com. (Business Analytics) Part – I Semester II Syllabus

To be implemented from the Academic year 2023-2024

Semester II

No. of Courses		Semester II	Credits	L / Week
1		<i>Discipline Specific Course (Major)</i>		
1	PAF2BCT	Business Application of Block Chain Technologies	4	4
2	PAF2BMT	Business Modelling	4	4
3	PAF2QTM	Quantitative techniques for Managers	4	4
4	PAF2RPG	Python Programming	2	2
2		<i>Discipline Specific Course (Elective)</i>		
5	PAF2FRP	Financial Reporting	4	4
3				
6	PAF2OJT	On Job Training	4	4
		Total Credits	22	

Choice Based Credit Grading and Semester System (CBCGS)

M.Com. (Business Analytics) Part – I Semester II Syllabus

To be implemented from the Academic year 2023-2024

1. Business Application of Block Chain Technologies

1	Preamble of the syllabus
	M.Com. in Business Analytics is a post-graduate Programme of Department Accounting & Finance, Changu Kana Thakur Arts, Commerce & Science College, New Panvel. (Autonomous) affiliated to University of Mumbai (MH) The Choice Based Credit, Grading and Semester System to be implemented through this curriculum, would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. The students pursuing this course would have to develop understanding of various aspects of business application of block chain technologies. It helps to understanding Blockchain and its significance, also understand cryptography and Blockchain networks. The performance of the learners shall be evaluated into two components i.e., internal and external. The learner's Performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.

2	Objectives of the course
□	To understand Blockchain and its significance
□	To determine cryptography and Blockchain networks
□	To describe Business challenges
□	To understand domain specific Blockchain business cases
□	To understand crypto economy and decentralized Internet

3	Outcomes of the course	Bloom Taxonomy
□	To describe Blockchain technology and its significance.	Remember
□	To explain cryptography and Blockchain technology networks.	Understand
□	To identify Business challenges in Blockchain technology.	Apply
□	To evaluate the domain specific Blockchain technology business cases.	Evaluate

Choice Based Credit Grading and Semester System (CBCGS)

M.Com. (Business Analytics) Part – I Semester II Syllabus

To be implemented from the Academic year 2023-2024

1. Business Application of Block Chain Technologies

4. *Modules at a Glance*

S.N	Modules	No. of Lectures
1	Introduction	05
2	Benefits and Trust Layer	10
3	Block chain Framework	15
4	Block chain Business Case	15
5	Block chain Architecture	15
Total		60

S.N	Modules/ Units
1	Introduction
	What is Blockchain, Game Theory and Cryptography, Block chain vs Traditional architecture, Database Vs. Ledger, State Transitions and State Machines, The Consensus Algorithms, Software.
2	Benefits and Trust Layer
	A new Trust Layer, Decentralization of Trust, A spectrum of Trust Services, The Block chain Landscape, Benefits and Indirect benefits, Trusted Block chain enabling services, Identify ownership and representation, Decentralized data security, Block chain as Cloud.
3	Block chain Framework
	Block chain with a Framework approach, Technical Challenges, Business Challenges, Legal Barriers, Behavioral/ Educational Challenges. Public, Private, and Consortium Block chain networks, Block chain pitfalls, Distinctions and Considerations of Resource and Control. Comparative Study and Use case: Ethereum
4	Block chain Business Case
	Block chain domain specific Business Case – Supply chain, financial markets, Healthcare & Transportation, BFSI, Insurance, Digital Marketing.
5	Blockchain Architecture
	Internal Strategies for tackling the Blockchain, The Blockchain Czar, Organizational Model, A Blockchain Functional Architecture, Core & Protocol, Decision Making Framework. Decentralized internet, The crypto Economy.

6. References Books

Business Application of Block Chain Technologies
<ol style="list-style-type: none"> 1. “Mastering Bitcoin: Unlocking digital cryptocurrencies”, by Andreas M. Antonopoulos 2. “Blockchain: Blueprint for a New Economy”, by Melanie Swan 3. “Ethereum: Blockchains, Digital Assets, Smart Contracts, Decentralized Autonomous Organizations”, by Henning Diedrich

Choice Based Credit Grading and Semester System (CBCGS)

M.Com. (Business Analytics) Part – I Semester II Syllabus

To be implemented from the Academic year 2023-2024

2.Business Modelling

1	Preamble of the syllabus
	<p>M.Com. in Business Analytics is a post-graduate Programme of Department Accounting & Finance, Changu Kana Thakur Arts, Commerce & Science College, New Panvel. (Autonomous) affiliated to University of Mumbai (MH) The Choice Based Credit, Grading and Semester System to be implemented through this curriculum, would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. The students pursuing this course would have to develop understanding of various aspects of business modelling. It helps to understand the Power BI Techniques and tools like DAX, Data Visualizations, Q&A and Data Insights, Report Server, also Work through numerous examples of linear and integer programming, as well as Monte Carlo simulation, decision analysis, and queuing theory. The performance of the learners shall be evaluated into two components i.e., internal and external. The learner's Performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.</p>

2	Objectives of the course
□	To understand fundamental of Visual Basic to be able to create front-end and back-end applications.
□	To learn the work through numerous examples of linear and integer programming, as well as Monte Carlo simulation, and decision analysis.
□	To know how to extract data from various sources and establish connections with Power BI Desktop & Query Editor, perform transformation operations on data.
□	To evaluate the Power BI Techniques and tools like DAX, Data Visualizations, Q&A and Data Insights, Report Server.

3	Outcomes of the course	Bloom Taxonomy
	The students will be able to:	
□	Describe the basic of VB and Excel	Remember
□	Explain the Power BI and its use	Understand
□	Analyze the Power BI techniques	Analyze
□	Design an application of spreadsheet in the modelling	Create

Choice Based Credit Grading and Semester System (CBCGS)

M.Com. (Business Analytics) Part – I Semester II Syllabus

To be implemented from the Academic year 2023-2024

2.Business Modelling

4. *Modules at a Glance*

S.N	Modules	No. of Lectures
1	Introduction to VB & EXCEL	15
2	Modeling through spreadsheet	15
3	Introduction to Power BI	15
4	Application of Power BI Technique	15
Total		60

5. Detailed Syllabus

SN	Modules/ Units
1	Introduction to VB & EXCEL
	<ul style="list-style-type: none"> • Headers/Footers, Cell Comments, Worksheet Protection, Writing Macros, Drop- Down Lists, Form Controls, • Error Checking, and Conditional Formatting, VBA Programming in Excel for Decision Support Systems • Applications include investment problem, inventory problem
2	Modeling through spreadsheet
	<ul style="list-style-type: none"> • Excel modeling tools, Waiting Lines and Queuing Theory, Monte Carlo Simulation, Queuing Theory • Optimization with Excel Solver Problem formulation, use of solver, Sensitivity analysis • Weibull and Beta Distributions: Modeling Machine Life and Duration of a Project, • Pricing Products by Using Tie-Ins with an exercise • Using the Lognormal Random Variable to Model Stock Prices, The Economic Order Quantity Inventory Model, Inventory Modeling with Uncertain Demand.
3	Introduction to Power BI
	<ul style="list-style-type: none"> • Business Intelligence, SSBI (Self Service Business Intelligence tools) • Power BI, Architecture of Power BI, Components of Power BI
4	Application of Power BI Technique
	<ul style="list-style-type: none"> • Power BI Desktop: Overview of Power BI Desktop, Data sources and connections in Power BI (Various different DS connections), Query editor in Power BI, transform data in Query editor Joining data, Data interpretations, manage data relationship, change data source connectivity Create calculated measures and filter at data level, Modeling data • Data Analysis Expressions (DAX): Why DAX, DAX Syntax, Data types in DAX, Types of calculations, DAX tables and Filtering, DAX queries, DAX Parameters, Analytics calculations • Power BI Q&A and Data Insights: Introduction to Power BI Services, Dashboard vs. Reports, Quick Insights, Creating Dashboards, Power BI Q&A, Ask Questions of your Data, Power BI Embedded • Power BI Report Server: Report server Basics, Web Portal, Row level security, Data Gateways, Scheduled data refresh

Business Modelling

- *Mastering Microsoft Power BI: Expert Techniques for Effective Data Analytics and Business Intelligence* - Brett Powell
- *The Definitive Guide to DAX: Business Intelligence with Microsoft Excel, SQL Server Analysis Services, and Power BI* - by Alberto Ferrari and Marco Russo
- *Business Modeling with Spreadsheets: Problems, Principles and Practice* - Thin-Yin LEONG & Michelle L.F. CHEONG
- *Microsoft Excel VBA and Macros (Office 2021 and Microsoft 365) (Business Skills)* - Bill Jelen & Tracy Syrstad

Choice Based Credit Grading and Semester System (CBCGS)

M.Com. (Business Analytics) Part – I Semester II Syllabus

To be implemented from the Academic year 2023-2024

3. Quantitative Techniques for Managers

1	Preamble of the syllabus
	<p>M.Com. in Business Analytics is a post-graduate Programme of Department Accounting & Finance, Changu Kana Thakur Arts, Commerce & Science College, New Panvel. (Autonomous) affiliated to University of Mumbai (MH) The Choice Based Credit, Grading and Semester System to be implemented through this curriculum, would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. The students pursuing this course would have to develop understanding of various aspects of quantitative techniques for managers. It helps to Understand the importance of the use of OR application in decision Making environment, also formulate LPP and Obtain Graphical Solutions & Acquire General idea of the Simplex method. The performance of the learners shall be evaluated into two components i.e., internal and external. The learner's Performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.</p>

2	Objectives of the course
□	To understand the importance of the use of OR application in decision Making environment.
□	To formulate LPP and Obtain Graphical Solutions & Acquire General idea of the Simplex method.
□	To solve transportation & assignment models.
□	To know optimal sequence model and understand concepts of queuing theory.

3	Outcomes of the course	Bloom Taxonomy
	The students will be able to:	
□	Evaluate different types of decision-making environments and the appropriate decision-making approaches and tools	Evaluate
□	Construct linear programming problem and to find optimal CO2: solution by graphical simplex method.	Create
□	Solve Transportation Models and Assignment Models also to solve game theory problems by understanding pure and mix strategies.	Apply
□	Describe optimal sequence of difference jobs on different machines and queuing theory concepts and CPM, PERT to reduce cost and time.	Understand

Choice Based Credit Grading and Semester System (CBCGS)

M.Com. (Business Analytics) Part – I Semester II Syllabus

To be implemented from the Academic year 2023-2024

3. Quantitative Techniques for Managers

4. Modules at a Glance

SN	Modules	No. of Lectures
1	Operations Research & Decision-Making Environments	15
2	Linear Programming Problem & Transportation Problem	15
3	Assignment model & Game Theory, Sequencing & Queuing Theory	15
4	Replacement Problem & Project Management	15
Total		60

5.

Detailed Syllabus

SN	Modules/ Units
1	Operations Research & Decision-Making Environments
	<ul style="list-style-type: none"> • Uses, Scope and Applications of Operation Research in managerial decision-making. • Decision-making environments: - Decision-making under certainty, uncertainty and risk situations; Decision tree approach and its applications.
2	Linear Programming Problem & Transportation Problem
	<ul style="list-style-type: none"> • Linear programming: Mathematical formulations of LP Models for product-mix problems; graphical and simplex method of solving LP problems; duality. • Transportation problem: Various methods of finding Initial basic feasible solution-North West Corner Method, Least Cost Method & VAM Method and optimal solution-Stepping Stone & MODI Method, Maximization Transportation Problem
3	Assignment model & Game Theory, Sequencing & Queuing Theory
	<ul style="list-style-type: none"> • Assignment model: Hungarian Algorithm and its applications, Maximization Assignment Problem. • Game Theory: Concept of game; Two-person zero-sum game; Pure and Mixed Strategy Games; Saddle Point; Odds Method; Dominance Method and Graphical Method for solving Mixed Strategy Game. • Sequencing Problem: Johnsons Algorithm for n Jobs and Two machines, n Jobs and Three Machines, Two jobs and m - Machines Problems. • Queuing Theory: Characteristics of M/M/I Queue model; Application of Poisson and Exponential distribution in estimating arrival rate and service rate; Applications of Queue model for better service to the customers.
4	Replacement Problem & Project Management
	<ul style="list-style-type: none"> • Replacement Problem: Replacement of assets that deteriorate with time, replacement of assets which fail suddenly. • Project Management: Rules for drawing the network diagram, Applications of CPM and PERT techniques in Project planning and control; crashing of operations.

6.

References Books

Quantitative Techniques for Managers
<ul style="list-style-type: none"> • <i>R. Panneerselvam - Operations Research (PHI, 2nd Edition)</i> • <i>Sharma J K - Operations Research (Pearson, 3rd Edition)</i> • <i>Apte-Operation Research and Quantitative Techniques (Excel Books)</i> • <i>Vohra - Quantitative Techniques in Management (Tata McGraw-Hill, 2nd)</i>

Choice Based Credit Grading and Semester System (CBCGS)

M.Com. (Business Analytics) Part – I Semester II Syllabus

To be implemented from the Academic year 2023-2024

4. Python Programming

1	Preamble of the syllabus
	M.Com.in Business Analytics is a post-graduate Programme of Department Accounting & Finance, Changu Kana Thakur Arts, Commerce & Science College, New Panvel. (Autonomous) affiliated to University of Mumbai (MH) The Choice Based Credit, Grading and Semester System to be implemented through this curriculum, would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. The students pursuing this course will get knowledge of why Python is a useful scripting language for developers as well as Applications. Also, learn how to write loops and functions in Python as well as determine how to use lists, tuples, and Range in Python programs. learners can apply and develop different python packages for mathematical, scientific applications, the model for data analysis and evaluate the model performance and for web data analysis. The performance of the learners shall be evaluated into two components i.e., internal and external. The learner's Performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.

2	Objectives of the course
□	To understand why Python is a useful scripting language for developers as well as Applications.
□	To learn how to write loops, functions, in Python.
□	To learn how to write lists, tuples, and Range.
□	To apply and develop different python packages for mathematical, scientific applications, the model for data analysis and evaluate the model performance and for web data analysis.

3	Outcomes of the course	Bloom Taxonomy
	The students will be able to:	
□	Explain significance of Python language for developers.	Understand
□	Make use of loops, functions, lists, tuples, and Range in Python programs.	Apply
□	Analyze the different ways of data analysis with the help of Python application.	Analyze

Choice Based Credit Grading and Semester System (CBCGS)

M.Com. (Business Analytics) Part – I Semester II Syllabus

To be implemented from the Academic year 2023-2024

4.Python Programming

4. *Modules at a Glance*

SN	Modules	No. of Lectures
1	Introduction	06
2	Conditionals, Loops and Functions.	10
3	List, Ranges & Tuples in Python	04
5	Python For Data Analysis	10
Total		30

5. Detailed Syllabus

	Modules/ Units
1	Introduction
	<ul style="list-style-type: none"> Introduction, history of Python, Comparison of Python with other languages (C/C++, Java), Salient features of Python, How Python runs Programs? Areas where Python is in use, Industries that are using Python, Install Python and Environment Setup, Identifiers, Keywords and Indentation Comments in Python, Command line arguments, Getting User Input, Python Data Types, what are variables? Python Core objects and Functions
2	Conditionals, Loops and Functions
	<ul style="list-style-type: none"> Conditionals and Loops: if statement, else Statement, elif Statement, while Statement, for Statement break Statement, continue Statement, pass Statement. Functions: Built-in Functions, User defined functions: Defining a Function, Calling a Function, Various Function Arguments.
3	List, Ranges & Tuples in Python
	<ul style="list-style-type: none"> Introduction Lists in Python, Understanding Iterators, Generators, Comprehensions and Lambda Expressions, Introduction Generators and Yield Next and Ranges, Understanding and using Ranges, Ordered Sets with tuples
4	Python For Data Analysis
	<ul style="list-style-type: none"> NumPy: Introduction to NumPy, creating arrays, using arrays and Scalars, Indexing Arrays, Array Transposition, Universal Array Function, Array Processing, Array Input and Output3 Pandas: What are pandas? Where it is used? Series in pandas, Index objects, Reindex, Drop Entry, Selecting Entries, Data Alignment, Rank and Sort, Summary Statics, Missing Data, Index Hierarchy

6. References Books

Python Programming
<ol style="list-style-type: none"> 1. <i>Python: The Complete Reference</i> - McGraw Hill Education. 2. <i>Python for Data Analysis: Data Wrangling with Pandas, NumPy, and Python</i>, 2nd Edition - Shroff/O'Reilly 3. <i>Data Analytics using Python</i> - Wiley 4. <i>Learning With Python</i> - Dreamtech Press 5. <i>Python Programming Using Problem Solving Approach 2Nd Edition</i> by Reema Thareja, Oxford India

Choice Based Credit Grading and Semester System (CBCGS)

M.Com. (Business Analytics) Part – I Semester II Syllabus

To be implemented from the Academic year 2023-2024

5.Financial Reporting

1	Preamble of the syllabus
	<p>M.Com. in Business Analytics is a post-graduate Programme of Department of Accounting & Finance, Changu Kana Thakur Arts, Commerce & Science College, New Panvel (Autonomous). Affiliated to University of Mumbai (MH) The Choice Based Credit, Grading and Semester System to be implemented through this curriculum, would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. The students pursuing this course would have to develop understanding of various aspects of the Accounting & Finance. It helps to improve the Regularity, consistency, materiality and comparability of the communication of financial information with the help of GAAP as well as to evaluate different accounting policies and their impact on financial statements as per Ind AS. The performance of the learners shall be evaluated into two components i.e., internal and external. The learner's Performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.</p>

2	Objectives of the course
□	To improve the Regularity, consistency, materiality and comparability of the communication of financial information with the help of GAAP.
□	To evaluate different accounting policies and their impact on financial statements as per Ind AS.
□	To understand, interpret and analyze general purpose financial reports.
□	To provide the knowledge with an overview of the 'principle-based' Ind AS Reporting Framework.

3	Outcomes of the course	Bloom Taxonomy
	The students will be able to:	
□	Describe and understand the International Financial Reporting standards and their application.	Understand
□	Prepare and interpret the financial statements according to the Ind AS.	Create
□	Develop understanding the concept of GAAP, IFRS and Ind AS.	Apply
□	Distinguish the scheme of Merger, demerger and Reverse Acquisition.	Analyse

Choice Based Credit Grading and Semester System (CBCGS)

M.Com. (Business Analytics) Part – I Semester II Syllabus

To be implemented from the Academic year 2023-2024

5.Financial Reporting

4.Modules at a Glance

S. N	Modules	No. of Lectures
1	Conceptual Framework for GAAP and Accounting Standards	10
2	Accounting of Business Combinations and Restructuring	10
3	Ind AS on Presentation of General-Purpose Financial Statements	15
4	Ind AS on Assets of the Financial Statements	15
5	Ind AS on Liabilities of the Financial Statements	10
Total		60

5. Detailed Syllabus

SN	Modules/ Units
1	Conceptual Framework for GAAP and Accounting Standards
	<ul style="list-style-type: none"> • Generally Accepted Accounting Principles in India • Overview of Accounting Standards • International Financial Reporting Standards • Applicability of Indian Accounting Standards
2	Accounting of Business Combinations and Restructuring
	<ul style="list-style-type: none"> • Introduction • Types of Mergers • Concept of Business Combination • Ind AS: 103 Business Combination • Scheme of Reconstruction • Business Combination under Common Control • Demerger – Concept • Reverse Acquisition
3	Ind AS on Presentation of General-Purpose Financial Statements
	<ul style="list-style-type: none"> • Ind AS 1: Presentation of Financial Statements • Ind AS 34: Interim Financial Reporting • Ind AS 7: Statement of Cash Flows
4	Ind AS on Assets of the Financial Statements
	<ul style="list-style-type: none"> • Ind AS 2: Inventories • Ind AS 16: Property, Plant and Equipment • Ind AS 116: Leases • Ind AS 23: Borrowing Costs • Ind AS 36: Impairment of Assets • Ind AS 38: Intangible Assets
5	Ind AS on Liabilities of the Financial Statements
	<ul style="list-style-type: none"> • Ind AS 19: Employee Benefits • Ind AS 37: Provisions, Contingent Liabilities and Contingent Assets

6. Reference Books

Financial Reporting
<ol style="list-style-type: none">1. <i>Financial Reporting - MP Vijay Kumar</i>2. <i>Financial Reporting - D.S. Rawat</i>3. <i>Financial Reporting - Pankaj Garg</i>4. <i>Corporate Financial Reporting - Praveen Sharma</i>

Choice Based Credit Grading and Semester System (CBCGS)

M.Com. Business Analytics - Part I Semester –I & II

To be implemented from the Academic year 2023-24

Scheme of Evaluation

Scheme of examination for each semester

The performance of the learners shall be evaluated into two components. The learner's Performance shall be assessed by Internal Assessment with 40% marks in the first component. External assessment with 60% marks in the second component. The allocation of marks for the Internal Assessment and Semester End Examinations are as shown below: -

A) Internal Assessment: 40 %

40 Marks

Internal Assessment- (Courses without Practical Courses)

Sr. No.	Particular	Marks
01	One periodical class test / online examination to be conducted in the given semester	20 Marks
02	Group / Individual Survey Project / Presentation and write up on the selected topics of the subjects / Case Studies / Test based on tutorials / Book Review / Poetry Appreciation / Open Book Test	15 Marks
03	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
	Total Marks	40 Marks

(For Courses with Practical)

Sr. No.	Particular	Marks
01	Practical Examination	20 Marks
	Journal	05 Marks
	Viva Voce	05 Marks
	Laboratory Work	10 Marks
02	Group / Individual Survey Project / Presentation and write up on the selected topics of the subjects / Case Studies / Test based on tutorials / Book Review / Poetry Appreciation / Open Book Test	15 Marks
03	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
	Total Marks	40 Marks

Question Paper Pattern
(Periodical Class Test)

Maximum Marks: 20

Duration: 40 Minutes

Questions to be set: 02

All Questions are Compulsory

Question No.	Particular	Marks
Q-1	Match the Column / Fill in the Blanks / Multiple Choice Questions/ Answer in One or Two Lines (Concept based Questions) (1 Marks / 2 Marks each)	10 Marks
Q-2	Answer in Brief (Attempt any Two of the Three) (5 Marks each)	10 Marks

Question Paper Pattern

- Duration: The examination shall be of 2 hours duration.

Theory question paper pattern
1. There shall be four questions each of 15 marks. 2. All questions shall be compulsory with internal options. 3. Question may be subdivided into sub-questions a, b, c... and the allocation of marks depends on the weightage of the unit.

Question Paper Pattern (Practical Courses)

Maximum Marks: 60

Questions to be set: 04

Duration: 2 Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question No	Particular	Marks
Q-1	Full Length Practical Question OR	15 Marks
Q-1	Full Length Practical Question	15 Marks
Q-2	Full Length Practical Question OR	15 Marks
Q-2	Full Length Practical Question	15 Marks
Q-3	Full Length Practical Question OR	15 Marks
Q-3	Full Length Practical Question	15 Marks
Q-4	Full Length Question OR	15 Marks
Q-4	Short Notes (Any three out of five)	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: 60

Questions to be set: 04

Duration: 2 Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question No	Particular	Marks
Q-1	Full Length Question	15 Marks
	OR	
Q-1	Full Length Question	15 Marks
Q-2	Full Length Question	15 Marks
	OR	
Q-2	Full Length Question	15 Marks
Q-3	Full Length Question	15 Marks
	OR	
Q-3	Full Length Question	15 Marks
Q-4	Full Length Question	15 Marks
	OR	
Q-4	Short Notes (Any three out of five)	15 Marks

Note:

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

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., 16 out of 40) in the Internal Assessment and 40% marks in Semester End Examination (i.e., 24 Out of 60) 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.



Janardan Bhagat Shikshan Prasarak Sanstha's

**CHANGU KANA THAKUR
ARTS, COMMERCE & SCIENCE COLLEGE, NEW PANVEL (AUTONOMOUS)**

**Re-accredited 'A+' Grade by NAAC
'College with Potential for Excellence' Status Awarded by UGC
'Best College Award' by University of Mumbai**

Department of Accounting & Finance

Board of Studies in Accounting & Finance

Program: Master of Commerce – Business Analytics

**Syllabus of M.Com. Business Analytics Part - II
Choice Based Credit & Grading System (60:40)
w.e.f. Academic Year 2023-24**

Sr. No.	Heading	Particulars
1	Title of Programme	M.Com. Business Analytics
2	Eligibility for Admission	Passed M. Com. Business Analytics Part – I (Sem 1 and Sem II)
3	Passing marks	40%
4	Ordinances/Regulations (if any)	---
5	No. of Semesters	Four
6	Level	P.G.
7	Pattern	Semester (60:40)
8	Status	Regular
9	To be implemented from Academic year	2023-2024

Choice Based Credit Grading and Semester System (CBCGS)
M. Com. Business Analytics Part -II Syllabus
To be implemented from the Academic year 2023-2024
Course Structure

M.Com. – Business Analytics Part - II

(To be implemented from Academic Year- 2023-2024)

No. of Courses	Semester I	Credits	No. of Courses	Semester II	Credits
1	Core Courses (CC)		1	Core Courses (CC)	
1	Big data Analytics	06	1	Financial & Credit Risk Analytics	06
2	Financial Modelling	06	2	Human Resources & Marketing Analytics	06
3	Artificial Intelligence & Machine Learning	06	3	Data mining Techniques	06
4	Python Programming	06	4	Internship Based Project	06
Total Credits		24	Total Credits		24

Choice Based Credit Grading and Semester System (CBCGS)

M.Com. Business Analytics Part II Syllabus

To be implemented from the Academic year 2023-2024

Semester III

Sr. No.	Course Code	Course Title	Credits	L / Week
1	PAF3BDA	Big data Analytics	06	04
2	PAF3FMD	Financial Modelling	06	04
3	PAF3AIM	Artificial Intelligence & Machine Learning	06	04
4	PAF3PYP	Python Programming	06	04

Choice Based Credit Grading and Semester System (CBCGS)**M.Com. Business Analytics Part II Semester III Syllabus****To be implemented from the Academic year 2023-2024****1.Big Data Analytics**

1	Preamble of the syllabus
	M.Com.in Business Analytics is a post-graduate Programme of Department Accounting & Finance, Changu Kana Thakur Arts, Commerce & Science College, New Panvel. (Autonomous) affiliated to University of Mumbai (MH) The Choice Based Credit, Grading and Semester System to be implemented through this curriculum, would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. The students pursuing this course will be develop focuses on big data technologies used for storage, analysis and manipulation of data. The student will learn about fundamentals of Hadoop, MapReduce, Pig, Hive, R and have hand on training on the same It also help to develop projects and apply existing data analytics tools to gain comprehensive knowledge on Data analytics. The performance of the learners shall be evaluated into two components i.e., internal and external. The learner's Performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.

2	Objectives of the course
¶	To know the fundamental concepts of big data and analytics
¶	To teach the fundamental techniques and principles in achieving big data analytics with scalability and streaming capability.
¶	To introduce the tools required to manage and analyze big data like Hadoop, NoSQL
¶	To introduce big data tools & Information Standard formats

3	Outcomes of the course	Bloom Taxonomy
	The students will be able to:	
¶	Define Big Data and its analytics	Remember
¶	Demonstrate fundamental enabling techniques and scalable	Understand
¶	Apply various Big Data Activities using Hive	Apply
¶	Analyze the Big Data framework like Hadoop and NOSQL to efficiently store and process Big Data to generate analytics	Analyze

Choice Based Credit Grading and Semester System (CBCGS)

M.Com. Business Analytics Part II Semester III Syllabus

To be implemented from the Academic year 2023-2024

1.Big Data Analytics

4.Modules at a Glance

SN	Modules	No. of Lectures
1	Fundamentals of Big Data Analysis	5
2	Big Data Analysis in Practice	10
3	NoSQL	15
4	Hadoop & MapReduce	15
5	Big data Analysis	15
Total		60

5. Detailed Syllabus

SN	Modules/ Units
1	Fundamentals of Big Data Analysis
	<ul style="list-style-type: none"> What is big data, why big data, convergence of key trends, unstructured data, industry examples of big data, web analytics,
2	Big Data Analysis in Practice
	<ul style="list-style-type: none"> big data and marketing, fraud and big data, risk and big data, credit risk management, big data and algorithmic trading, big data and healthcare, big data in medicine, advertising and big data, big data technologies, introduction to Hadoop, open-source technologies, cloud and big data, mobile business intelligence, Crowd sourcing analytics, inter and trans firewall analytics
3	NoSQL
	<ul style="list-style-type: none"> Introduction to NoSQL, aggregate data models, aggregates, key-value and document data models, relationships, graph databases, schemeless databases, materialized views, distribution models, sharding, master-slave replication, peer-peer replication, sharding and replication, consistency, relaxing consistency, version stamps, map-reduce, partitioning and combining, composing map- reduce calculations.
4	Hadoop & MapReduce
	<ul style="list-style-type: none"> Data format, analyzing data with Hadoop, scaling out, Hadoop streaming, Hadoop pipes, design of Hadoop distributed file system (HDFS), HDFS concepts, Java interface, data flow, Hadoop I/O, data integrity, compression, serialization, Avro, file-based data structures MapReduce workflows, unit tests with MRUnit, test data and local tests, anatomy of MapReduce job run, classic Map-reduce, YARN, failures in classic Map-reduce and YARN, job scheduling, shuffle and sort, task execution, MapReduce types, input formats, output formats.
5	Big data Analysis
	<ul style="list-style-type: none"> HBase, data model and implementations, HBase clients, HBase examples, praxis. Cassandra, Cassandra data model, Cassandra examples, Cassandra clients, Hadoop integration, Hive, data types and file formats, HiveQL data definition, HiveQL data manipulation, HiveQL queries.

6. References Books

Big Data Analytics

- Business Intelligence and Analytic Trends for Today's Businesses", Wiley, 2013
- Hadoop: The Definitive Guide, Tom White, Third Edition, O'Reilley, 2012.
- Hadoop Operations, Eric Sammer, O'Reilley, 2012.
- Programming Hive, E. Capriolo, D. Wampler, and J. Rutherglen, O'Reilley, 2012.
- HBase: The Definitive Guide, Lars George, O'Reilley, 2011.
- Cassandra: The Definitive Guide, Eben Hewitt, O'Reilley, 2010.

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Choice Based Credit Grading and Semester System (CBCGS)**M.Com. Business Analytics Part II Semester III Syllabus****To be implemented from the Academic year 2023-2024****2.Financial Modelling**

1	Preamble of the syllabus
	M.Com.in Business Analytics is a post-graduate Programme of Department Accounting & Finance, Changu Kana Thakur Arts, Commerce & Science College, New Panvel. (Autonomous) affiliated to University of Mumbai (MH) The Choice Based Credit, Grading and Semester System to be implemented through this curriculum, would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. The students pursuing this course would have to become well versed with Intermediate level Microsoft Excel Functions for the purpose of financial modelling. The performance of the learners shall be evaluated into two components i.e., internal and external. The learner's Performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.

2	Objectives of the course
□	To Understand the Microsoft Excel Functions for the purpose of financial modelling.
□	To analyze and interpret the financial performance of companies through their financial statements.
□	To identify Advanced, excel techniques and Advanced analytical tools for Financial Modelling
□	To Prepared common size statements, forecasting financial statements.
□	To Determined efficient portfolio, creating dynamic portfolios, portfolio insurance, fixed income portfolio management using excel.
□	To develop Company Analysis, Terminal Value, Financial projections, Discounting Cash Flows and Corporate Valuation.

3	Outcomes of the course	Bloom Taxonomy
	The Students will able to :	
□	Explain Time value of money models, Basic statistical tools and Microsoft Excel Functions.	Understand
□	Analyse the various financial and other tools in excel.	Analyse
□	Measure Advanced techniques , Analytical Tools, Sensitivity Analysis, Database Functions and Finance functions for Financial Modeling.	Evaluate
□	Determined efficient portfolio, creating dynamic portfolios, portfolio insurance, fixed income portfolio management.	Evaluate
□	Elaborate Company Analysis, Terminal Value, Financial projections, Discounting Cash Flows, Final Analysis & Reasonability Testing and Corporate Valuation.	Create

Choice Based Credit Grading and Semester System (CBCGS)**M.Com. Business Analytics Part II Semester III Syllabus****To be implemented from the Academic year 2023-2024****2. Financial Modelling****4. *Modules at a Glance***

SN	Modules	No. of Lectures
1	Introduction to Financial Modeling	15
2	Introduction to Corporate Finance, Accounting, & Modeling	5
3	Advanced Excel for Financial Modeling	10
4	Excel in Accounting & Portfolio Theory	15
5	Financial Modeling & Valuation	15
Total		60

5. Detailed Syllabus

SN	Modules/ Units
1	Introduction to Financial Modeling
	<ul style="list-style-type: none"> • Overview • Basic technical skills and setup – Excel and Python • Time value of money models • Basic statistical tools • Monte Carlo methods
2	Introduction to Corporate Finance, Accounting, & Modeling
	<ul style="list-style-type: none"> • Intro to Corporate Finance • Enterprise value • Financial Accounting & Statement Analysis • Integrated Financial Modeling • Intro to DCF Modeling • Sensitivity Analysis • Intro to LBO Modeling
3	Advanced Excel for Financial Modeling
	<ul style="list-style-type: none"> • Advanced techniques to Expedite Workflow • Advanced Analytical Tools & Sensitivity Analysis • Database Functions for Finance • Functions for Financial Modeling
4	Excel in Accounting & Portfolio Theory
	<ul style="list-style-type: none"> • Preparing common size statements directly from trial balance, forecasting financial statements using excel, analyzing financial statements by using spreadsheet model, excel in project appraisal, determining project viability. • Risk analysis in project appraisal, simulation in project appraisal, excel in valuation, determination of value drivers, discontinued cash flow valuation, risk analysis in valuation. • Determining efficient portfolio, creating dynamic portfolios, portfolio insurance, fixed income portfolio management using excel, excel in derivatives black and schools' model in excel, Greeks in excel, real options valuation, building a mega model.
5	Financial Modeling & Valuation
	<ul style="list-style-type: none"> • Company Analysis • Terminal Value • Financial projections • Discounting Cash Flows • Final Analysis & Reasonability Testing • Corporate Valuation

6. References Books

Financial Modelling

- Principles of Financial Modelling - Model Design and Best Practices Using Excel and VBA (The Wiley Finance Series)
- ▯ Mastering Financial Modelling in Microsoft Excel – Alastair Day
- ▯ Financial Modelling in Practice: A Concise Guide for Intermediate and Advanced Level: 443 (The Wiley Finance Series)
- Financial Modeling: by Simon Benninga.

Choice Based Credit Grading and Semester System (CBCGS)**M.Com. Business Analytics Part II Semester III Syllabus****To be implemented from the Academic year 2023-2024****3. Artificial Intelligence & Machine Learning**

1	Preamble of the syllabus
	<p>M.Com.in Business Analytics is a post-graduate Programme of Department Accounting & Finance, Changu Kana Thakur Arts, Commerce & Science College, New Panvel. (Autonomous) affiliated to University of Mumbai (MH) The Choice Based Credit, Grading and Semester System to be implemented through this curriculum, would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. The students pursuing this course will be understand the basic concepts of Supervised and Unsupervised learning. They can able to apply regression analysis on the data available. They can design appropriate machine learning and apply on real world problems and also optimize different Machine Learning & Deep Learning Techniques. The performance of the learners shall be evaluated into two components i.e., internal and external. The learner's Performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.</p>

2	Objectives of the course
□	To understand the need of Machine Learning & Statistics for solving various problems
□	To understand the basic concepts of Supervised and Unsupervised learning.
□	To apply regression analysis on the data available.
□	To design appropriate machine learning and apply on real world problems
□	To optimize different Reinforcement Learning & Deep Learning Techniques

3	Outcomes of the course	Bloom Taxonomy
	The students will be able to:	
□	Explain need of Artificial Intelligence and Machine Learning in Data analytics.	Understand
□	Demonstrate fundamentals of Supervised and Unsupervised learning.	Understand
□	Apply regression analysis on the data available	Apply
□	Analyze different Reinforcement Learning & Deep Learning Techniques	Analyze

Choice Based Credit Grading and Semester System (CBCGS)**M.Com. Business Analytics Part II Semester III Syllabus****To be implemented from the Academic year 2023-2024****3. Artificial Intelligence & Machine Learning****4.***Modules at a Glance*

SN	Modules	No. of Lectures
1	Artificial Intelligence for Business Planning	10
2	Supervised Learning and Applications	15
3	Unsupervised Learning algorithms	15
4	Artificial Neural Networks & Deep Learning	15
5	Reinforcement Learning	5
Total		60

5. Detailed Syllabus

SN	Modules/ Units
1	Artificial Intelligence for Business Planning
	<ul style="list-style-type: none"> Introduction and Data sources for AI, Knowledge acquisition, Knowledge representation, History of ML, Framework for building ML Systems-KDD process mode, Introduction of Machine Learning Approaches – (Artificial Neural Network, Clustering, Reinforcement Learning, Decision Tree Learning, Bayesian networks, Support Vector Machine, Genetic Algorithm), Issues in Machine Learning, Data Science Vs Machine Learning.
2	Supervised Learning and Applications
	<ul style="list-style-type: none"> Supervised Learning: Introduction to classification, Linear Regression, Metrics for evaluating linear model, Multivariate regression, Non-Linear Regression, K-Nearest Neighbor, Decision Trees, Logistic Regression, Support Vector Machines, Model Evaluation, Applications of supervised learning in multiple domains Application of supervised learning in solving business problems such as pricing, customer relationship management, sales and marketing.
3	Unsupervised Learning algorithms
	<ul style="list-style-type: none"> Unsupervised Learning: Clustering, Hierarchical clustering, Partitioning Clustering- K-mean clustering, Density Based Methods DBSCAN, OPTICS, Applications of unsupervised learning in multiple domains, Association rules: Introduction, Large Item sets, Apriori Algorithms and applications
4	Artificial Neural Networks & Deep Learning
	<ul style="list-style-type: none"> Perceptron model, Multilayer perceptron, Gradient descent and the Delta rule, Multilayer networks, Backpropagation Algorithm, DEEP LEARNING - Introduction, concept of convolutional neural network, Types of layers – (Convolutional Layers, Activation function, pooling, fully connected), Concept of Convolution (1D and 2D) layers, Training of network, Recent Applications
5	Reinforcement Learning
	<ul style="list-style-type: none"> Introduction to Reinforcement Learning, Learning Task, Example of Reinforcement Learning in Practice, Learning Models for Reinforcement – (Markov Decision process, Q Learning - Q Learning function, Q Learning Algorithm), Application of Reinforcement Learning, Introduction to Deep Q Learning.

6.

References Books

Artificial Intelligence & Machine Learning
<ul style="list-style-type: none">• Artificial Intelligence for Business, 2nd Edition by Doug Rose• The Hundred-Page Machine Learning Book by Andriy Burkov• Machine Learning For Absolute Beginners by Oliver Theobald• Deep Reinforcement Learning Hands-On - Maxim Lapan (2020)

Choice Based Credit Grading and Semester System (CBCGS)**M.Com. Business Analytics Part II Semester III Syllabus****To be implemented from the Academic year 2023-2024****4. Python Programming**

1	Preamble of the syllabus
	<p>M.Com.in Business Analytics is a post-graduate Programme of Department Accounting & Finance, Changu Kana Thakur Arts, Commerce & Science College, New Panvel. (Autonomous) affiliated to University of Mumbai (MH) The Choice Based Credit, Grading and Semester System to be implemented through this curriculum, would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. The students pursuing this course will get knowledge of why Python is a useful scripting language for developers as well as Applications. Also, learn how to write loops and functions in Python as well as determine how to use lists, tuples, and Range in Python programs. It helps to Identify the commonly used operations involving file systems and regular expressions. Even the learners can apply and develop different python packages for mathematical, scientific applications, the model for data analysis and evaluate the model performance and for web data analysis. The performance of the learners shall be evaluated into two components i.e., internal and external. The learner's Performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.</p>

2	Objectives of the course
□	To understand why Python is a useful scripting language for developers as well as Applications.
□	To learn how to write loops and functions in Python.
□	To determine how to use lists, tuples, and Range in Python programs.
□	To Identify the commonly used operations involving file systems and regular expressions.
□	To apply and develop different python packages for mathematical, scientific applications, the model for data analysis and evaluate the model performance and for web data analysis.

3	Outcomes of the course	Bloom Taxonomy
	The students will be able to:	
□	Explain significance of Python language for developers.	Understand
□	Make use of loops, functions, lists, tuples, and Range in Python programs.	Apply
□	Analyze the different ways of data analysis with the help of Python application.	Analyze

Choice Based Credit Grading and Semester System (CBCGS)**M.Com. Business Analytics Part II Semester III Syllabus****To be implemented from the Academic year 2023-2024****4. Python Programming****4. *Modules at a Glance***

SN	Modules	No. of Lectures
1	Introduction	12
2	Conditionals, Loops and Functions.	12
3	List, Ranges & Tuples in Python	12
4	I/O and Error Handling in Python	12
5	Python For Data Analysis	12
Total		60

5. Detailed Syllabus

SN	Modules/ Units
1	Introduction
	<ul style="list-style-type: none"> • Introduction, history of Python, Comparison of Python with other languages (C/C++, Java), Salient features of Python, How Python runs Programs? ,Areas where Python is in use, Industries that are using Python, • Install Python and Environment Setup , Identifiers, Keywords and Indentation Comments in Python ,Command line arguments ,Getting User Input ,Python Data Types ,What are variables? ,Python Core objects and Functions
2	Conditionals, Loops and Functions.
	<ul style="list-style-type: none"> • Conditionals and Loops: if statement, else Statement, elif Statement, while Statement, for Statement break Statement, continue Statement, pass Statement. • Functions: Built-in Functions, User defined functions: Defining a Function, Calling a Function, Various Function Arguments.
3	List, Ranges & Tuples in Python
	<ul style="list-style-type: none"> • Introduction Lists in Python, Understanding Iterators, Generators, Comprehensions and Lambda Expressions, Introduction Generators and Yield Next and Ranges, Understanding and using Ranges, Ordered Sets with tuples
4	I/O and Error Handling In Python
	<ul style="list-style-type: none"> • Input and Output, Input function, Input with raw_input(),Output with old string format, Python format function • Python Exceptions Handling: What is Exception? Handling an exception, try.... except...else, try-finally clause, Argument of an Exception, Python Standard Exceptions, Raising an exception, User-Defined Exceptions
5	Python For Data Analysis
	<ul style="list-style-type: none"> • NumPy: Introduction to NumPy, creating arrays, using arrays and Scalars, Indexing Arrays, Array Transposition, Universal Array Function, Array Processing, Array Input and Output3 • Pandas: What is pandas? Where it is used? Series in pandas, Index objects, Reindex, Drop Entry, Selecting Entries, Data Alignment, Rank and Sort, Summary Statics, Missing Data, Index Hierarchy

6. References Books

Python Programming

- *Python: The Complete Reference - McGraw Hill Education.*
- *Python for Data Analysis: Data Wrangling with Pandas, NumPy, and IPython, 2nd Edition - Shroff/O'Reilly*
- *Data Analytics using Python - Wiley*
- *Learning With Python - Dreamtech Press*
- *Python Programming Using Problem Solving Approach 2Nd Edition by Reema Thareja, Oxford India*

Choice Based Credit Grading and Semester System (CBCGS)**M.Com. Business Analytics Part II Semester IV Syllabus****To be implemented from the Academic year 2023-2024****Semester IV**

Sr. No.	Course Code	Course Title	Credits	L / Week
1	PAF4FCA	Financial & Credit Risk Analytics	6	4
2	PAF4HMA	Human Resources & Marketing Analytics	6	4
3	PAF4DMT	Data Mining Techniques	6	4
4	PAF4IBP	Internship Based Project	6	4
		Total credits	24	

Choice Based Credit Grading and Semester System (CBCGS)**M.Com. Business Analytics Part II Semester IV Syllabus****To be implemented from the Academic year 2023-2024****1. Financial & Credit Risk Analytics**

1	Preamble of the syllabus
	M.Com.in Business Analytics is a post-graduate Programme Department Accounting & Finance, Changu Kana Thakur Arts, Commerce & Science College, New Panvel. (Autonomous) affiliated to University of Mumbai (MH) The Choice Based Credit, Grading and Semester System to be implemented through this curriculum, would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. The students pursuing this course would have to understand the credit risk and its rating and also understanding of credit commitments and its application. They can able to understand risk management and corporate governance and also measure riskiness of a stock or a portfolio position. The performance of the learners shall be evaluated into two components i.e., internal and external. The learner's Performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.

2	Objectives of the course
	To Learn about the different kinds of credit available.
	To gain the knowledge of credit risk and rating
	To Understand the credit commitments and its application
	To develop the knowledge of corporate governance and risk management.
	To Measure riskiness of a stock or a portfolio position.

3	Outcomes of the course	Bloom Taxonomy
	The students will be able to:	
	Define about the different kinds of credit available.	Remember
	Demonstrate knowledge of credit risk and rating	Understand
	Explain the credit commitments and its application	Understand
	Apply the knowledge of corporate governance and risk management.	Apply
	Analyze the portfolio position.	Analyze

Choice Based Credit Grading and Semester System (CBCGS)**M.Com. Business Analytics Part II Semester IV Syllabus****To be implemented from the Academic year 2023-2024****1. Financial & Credit Risk Analytics****4.***Modules at a Glance*

SN	Modules	No. of Lectures
1	Introduction	5
2	Trade Credit Risk	10
3	Letter of Credit and Loan Commitments	15
4	Operational Risk: Overview	15
5	Credit Analysis & Rating	15
Total		60

5. Detailed Syllabus

SN	Modules/ Units
1	Introduction
	<ul style="list-style-type: none"> Financial Credit: Meaning & Objectives, Credit Risk, Credit Analysis, Seven C's, Credit Analysis Process, Credit Process, Documentation, Loan Pricing and Profitability Analysis. Regulations, Types of Credit Facilities: Various types of Credit Facilities- Cash Credit, Overdrafts, Demand Loan, Bill Finance – Drawee Bill Scheme, Bill Discounting. Cash Delivery: Types of Facilities, Modes of Delivery.
2	Trade Credit Risk
	<ul style="list-style-type: none"> Sole -Banking Arrangement, Multiple Banking Arrangement, Consortium Lending, Syndication. Credit Thrust, Credit Priorities, Credit Acquisitions, Statutory & Regulatory restrictions on Advances. Credit Appraisal: Validation of proposal, Dimensions of Credit Appraisals, Structuring of Loan documents, Credit Risk, Credit Risk Rating, Credit Worthiness of Borrower, Purpose of Loan, Source of Repayment, Cash Flow, Collateral.
3	Letter of Credit and Loan Commitments
	<ul style="list-style-type: none"> Quasi Credit Facilities: Advantages of Non-Fund Facilities, Various types of NFB Facilities, Various types Letter of Credits, Assessment of LC limits, Bills Purchase/ Discounting under LC. Loan commitments, Un-funded lines of credit and their characteristics Various types of Bank Guarantees: Performance Guarantee, Financial Guarantees, Deferred Payment Guarantees, Types of Performance and Financial Guarantees, Assessment of Bank Guarantees Limit, Period of Claim under Guarantee.
4	Operational Risk: Overview
	<ul style="list-style-type: none"> Risk & Uncertainty, Financial Sector, Risk Types, Operational Risk Management- Recruitment & Training, Work flow Design, Work Flow Documentation, Delegation of Authority, Independent Internal Audit, Independent Compliance Function, Independent Risk Management Function, System Audit, Corporate Governance, Whistle Blower Policy, Risk Management Culture.
5	Credit Analysis & Rating
	<ul style="list-style-type: none"> Importance of credit analysis, Stages of credit analysis profitability analysis and pricing of loans, Credit risk analysis (Debt ratios and risk of leverage), Analysis of working capital, liquidity , operating and cash cycle risk . Credit Rating: Measurement of Risk, Objective of Rating, Internal & External Rating, Model Credit Rating, Methodology of Rating, Internal & External Comparison, Model Rating Formats.

6.

References Books

Financial & Credit Risk Analytics

- Credit Risk Modeling Theory And Applications by David Land, New Age International (P) Ltd., Publishers
- Credit Risk Analytics: Measurement Techniques, Applications, and Examples in SAS (Wiley and SAS Business Series) by Daniel Roesch (Author), Harald Scheule (Author), Bart Baesens (Author)
- The Bank Credit Analysis Handbook: A Guide for Analysts, (Wiley Finance) by Jonathan Golin (Author), Philippe Delhaise (Author)
- Credit Risk Measurement: New Approaches to Value at Risk and Other Paradigms (Wiley Finance) Hardcover – Import, 20 March 2002 by Anthony Saunders (Author), Linda Allen (Author)

Choice Based Credit Grading and Semester System (CBCGS)**M.Com. Business Analytics Part II Semester IV Syllabus****To be implemented from the Academic year 2023-2024****2.Human Resources & Marketing Analytics**

1	Preamble of the syllabus
	<p>M.Com.in Business Analytics is a post-graduate Programme of Department Accounting & Finance, Changu Kana Thakur Arts, Commerce & Science College, New Panvel. (Autonomous) affiliated to University of Mumbai (MH) The Choice Based Credit, Grading and Semester System to be implemented through this curriculum, would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. The students pursuing this course will get the introduction of the theory, concepts, and business application of HR analytics, and the ability to track, store, retrieve, analyze and interpret HR data to support decision making, They will understand use of applicable benchmarks/metrics to conduct research and statistical analyses related to Human Resource Planning and Recruitment and Selection. They have to study various tools to have marketing insights in various marketing areas through empirical data and they can interpret the marketing data for effective marketing decision making. The performance of the learners shall be evaluated into two components i.e., internal and external. The learner's Performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.</p>

2	Objectives of the course
□	To introduces the student to the theory, concepts, and business application of HR analytics, and the ability to track, store, retrieve, analyze and interpret HR data to support decision making.
□	To understand use of applicable benchmarks/metrics to conduct research and statistical analyses related to Human Resource Planning and Recruitment and Selection.
□	To apply the proper software for recording, maintaining, retrieving, and analyzing Effectiveness of training and performance
□	To understand the basic concepts of Marketing Analytics
□	To study various tools to have marketing insights in various marketing areas through empirical data
□	To draw inferences from data in order to answer descriptive, predictive, and prescriptive questions relevant to marketing managers

3	Outcomes of the course	Bloom Taxonomy
	The students will be able to:	
□	Define Basic concept of HR analytics and Marketing Analytics	Remember
□	Explain how to conduct research and statistical analyses linked to human resource planning, recruitment, and selection using appropriate benchmarks and metrics.	Understand
□	Apply the proper software for recording, maintaining, retrieving, and analyzing Effectiveness of training and performance	Apply
□	Analyze various tools to have marketing insights in various marketing areas through empirical data	Analyze
□	Develop conclusions from data in order to address descriptive, predictive, and prescriptive issues that concern marketing managers	Create

Choice Based Credit Grading and Semester System (CBCGS)**M.Com. Business Analytics Part II Semester IV Syllabus****To be implemented from the Academic year 2023-2024****2. Human Resources & Marketing Analytics****4. *Modules at a Glance***

SN	Modules	No. of Lectures
1	Introduction to HR Analytics	5
2	Human Resource Planning and forecasting	10
3	Performance Analysis	15
4	Introduction to marketing Analytics	03
5	Pricing Analytics & Sales Forecasting	15
6	Customer Analytics & Advertising Analysis	12
Total		60

5. Detailed Syllabus

SN	Modules/ Units
1	Introduction to HR Analytics
	Evolution of HR Analytics, HR information systems and data sources, Evolution of HR Analytics; HR Metrics and HR Analytics; Intuition versus analytical thinking; HRMS/HRIS and data sources; Analytics frameworks like LAMP, HR Scorecard & Workforce Scorecard.
2	Human Resource Planning and forecasting
	Quantitative and Qualitative Dimensions of HR Planning, Methods and Techniques of HR Demand Forecasting, Data Base for Manpower Forecasting. Recruitment and Selection Analytics: Evaluating Reliability and validity of selection models, Finding out selection bias, Predicting the performance and turnover.
3	Performance Analysis
	Predicting employee performance, training requirements, evaluating training and development, optimizing selection and promotion decisions, Analyzing and Classifying training needs, measuring training effectiveness, Predicting training effectiveness and performance. Designing a Compensation System: Understanding compensation Analytics, quantifiable data, Factors affecting Compensation & Benefits, Analytics for compensation planning, Competency Scorecard.
4	Introduction to marketing Analytics
	Meaning, characteristics, advantages and disadvantages of marketing analytics, Market Data Sources (Primary and Secondary). Market Sizing: Stakeholders, Applications & Approaches (Top-down and Bottom-up), PESTLE Market Analysis, Porter Five Force Analysis
5	Pricing Analytics & Sales Forecasting
	I)Pricing Analytics Pricing Policy and Objectives, Estimating Demand: Price Elasticity, Estimating Linear and Power Demand Curves, Optimize Pricing, Incorporating Complementary Products, Pricing using Subjective Demand Curve, Pricing Multiple Products, Price Bundling & Nonlinear Pricing: Pure Bundling & Mixed Bundling, Determine Optimal Bundling Pricing, Profit Maximizing strategies using Nonlinear Pricing Strategies, Price Skimming & Sales, Revenue Management: Markdown Pricing and Handling Uncertainty II) Sales Forecasting Introduction, Simple Linear Regression & Multiple Regression model to forecast sales, Forecasting in Presence of Special Events, Modeling trend and seasonality; Ratio to moving average forecasting method, Using S curves to Forecast Sales of a New Product
6	Customer Analytics & Advertising Analysis
	I)Customer Analytics: Customer Lifetime Value: Concept, Basic Customer Value, Measuring Customer Lifetime value, Estimating Chance that customer is still active, Using Customer Value to value a business Market Segmentation : The segmentation-targeting-positioning (STP) framework, Segmentation, The concept of market segmentation, managing the segmentation process, Deriving market segments and describing the segments using Cluster analysis II)Advertising Analysis: Measuring the Effectiveness of Advertising, Pay per Click (PPC) Online Advertising

6.

References Books

Human Resources & Marketing Analytics
<ul style="list-style-type: none">• <i>Bhattacharya Kumar Dipak, HR Analytics Understanding Theories and Applications, SAGE Publishing.</i>• <i>Banerjee Pratyush, Pandey Jatin and Gupta Manish (2019), Practical Applications of HR Analytics, SAGE Publishing.</i>• <i>Marketing Analytics: Data-Driven Techniques with Microsoft Excel by Wayne L 2. Winston Wiley India Pvt. Ltd.</i>• <i>Marketing Analytics: Strategic Models and Metrics by Stephan Sorger, Create Space Publishing</i>

Choice Based Credit Grading and Semester System (CBCGS)**M.Com. Business Analytics Part II Semester IV Syllabus****To be implemented from the Academic year 2023-2024****3.Data Mining Techniques**

1	Preamble of the syllabus
	<p>M.Com. in Business Analytics is a post-graduate Programme of Department Accounting & Finance, Changu Kana Thakur Arts, Commerce & Science College, New Panvel. (Autonomous) affiliated to University of Mumbai (MH) The Choice Based Credit, Grading and Semester System to be implemented through this curriculum, would allow students to develop a strong footing in the fundamentals and specialize in the disciplines of his/her liking and abilities. The students pursuing this course would have to develop Understanding of classification, clustering algorithms. They can able to apply classification and clustering methods applicable to predictive analytics using R and also create Understanding of how to formulate predictive analytics using R & Understand pattern discovery using R The performance of the learners shall be evaluated into twocomponents i.e., internal and external. The learner's Performance shall be assessed by Internal Assessment with 40 marks and external assessment with 60 marks.</p>

2	Objectives of the course
□	Understanding of data mining and its functions
□	Understanding of classification, clustering algorithms
□	To apply classification and clustering methods applicable to predictive analytics using R
□	Understanding of how to formulate predictive analytics using R & Understand pattern discovery using R

3	Outcomes of the course	Bloom Taxonomy
	The students will be able to:	
□	Define data mining and its functions	Remember
□	Explain classification and clustering algorithms	Understand
□	Apply formulate predictive analytics using R & Understand pattern discovery using R	Apply
□	Analyze classification and clustering methods applicable to predictive analytics using R	Analyze

Choice Based Credit Grading and Semester System (CBCGS)**M.Com. Business Analytics Part II Semester IV Syllabus****To be implemented from the Academic year 2023-2024****3. Data Mining Techniques****4. *Modules at a Glance***

SN	Modules	No. of Lectures
1	Data Mining & Classification	15
2	Data mining process	10
3	Predictive analytics Using R	10
4	Understand pattern discovery using R	10
5	Data Visualization & Descriptive Analytics Using R (Practicals)	15
Total		60

5. Detailed Syllabus

SN	Modules/ Units
1	Data Mining & Classification
	<ul style="list-style-type: none"> Data Mining: Overview, Motivation, Definition & Functionalities, Data Processing, Form of Data Preprocessing, Data Cleaning.: Missing Values, Noisy Data, (Binning, Clustering, Regression, Computer and Human inspection), Inconsistent Data, Data Integration and Transformation. Data Reduction: -Data Cube Aggregation, Dimensionality reduction, Data Compression. Classification: Definition, Data Generalization, Analytical Characterization, Analysis of attribute relevance, Mining Class comparisons, Statistical measures in large Databases, Statistical-Based Algorithms, Distance-Based Algorithms, Decision Tree-Based Algorithms. Clustering: Introduction, Similarity and Distance Measures, Hierarchical and Partitional Algorithms. Hierarchical Clustering- CURE and Chameleon. Association rules: Introduction, Large Item sets, Basic Algorithms, Parallel and Distributed Algorithms, Neural Network approach
2	Data Mining Process
	<ul style="list-style-type: none"> Data Mining process- CRISP -DM Methodology, Data Collection and Business understanding, Data and Datasets, importing data into R, Data Preprocessing: Data Cleaning, Transforming variables, creating variables, Dimensionality Reduction, Modeling: Exploratory data analysis, dependency modeling using association rules, clustering, anomaly detection,
3	Predictive analytics Using R
	<ul style="list-style-type: none"> Predictive analytics-Evaluation Metrics, Tree-Based Model, Support Vector Machines, Artificial Neural Networks and deep learning, Model Ensembles, Evaluation- The holdout and random subsampling, cross validation, bootstrap estimates, recommended procedures, reporting and deployment, Case Study.
4	Understand pattern discovery using R
	<ul style="list-style-type: none"> Transactional Dataset, Apriori Analysis, Generating Filtering Rules, Plotting, Sequential Dataset, Apriori Sequence Analysis, Understanding the Results, Business Cases
5	Data Visualization & Descriptive Analytics Using R (Practicals)
	<ul style="list-style-type: none"> Data Visualization in R: Graphs, Histograms, Scatter plots in R Language, R – Pie Charts Descriptive Analysis, Need of Descriptive Analysis, Descriptive Analysis in R, R functions for computing descriptive analysis

6.

References Books

Data Mining Techniques

- *Introduction to Data Mining*, by Tan, Steinbach & Kumar
- *Data Mining and Data Warehousing: Principles and Practical Techniques*
- *Data Mining for Business Analytics, An Indian Adaptation: Concepts, Techniques, and Applications in R*
- *Data Mining and Predictive Analytics (Wiley Series on Methods and Applications in Data Mining)*, Wiley; 2nd edition
- *An Introduction to Statistical Learning: with Applications in R*, by Gareth James & Daniela Witten

Choice Based Credit Grading and Semester System (CBCGS)**M.Com. Business Analytics - Part I Semester –I & II****To be implemented from the Academic year 2023-24****Scheme of Evaluation****Scheme of examination for each semester**

The performance of the learners shall be evaluated into two components. The learner's Performance shall be assessed by Internal Assessment with 40% marks in the first component. External assessment with 60% marks in the second component. The allocation of marks for the Internal Assessment and Semester End Examinations are as shown below:-

A) Internal Assessment: 40 %**40 Marks*****Internal Assessment- (Courses without Practical Courses)***

Sr. No.	Particular	Marks
01	One periodical class test / online examination to be conducted in the given semester	20 Marks
02	One case study/project with presentation based on the curriculum to be assessed by the teacher concerned	15 Marks
	Presentation	10 Marks
	Written Document	05 Marks
03	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
	Total Marks	40 Marks

(For Courses with Practical)

Sr. No.	Particular	Marks
01	Practical Examination	20 Marks
	Journal	05 Marks
	Viva Voce	05 Marks
	Laboratory Work	10 Marks
02	One case study/project with presentation based on the curriculum to be assessed by the teacher concerned	15 Marks
	Presentation	10 Marks
	Written Document	05 Marks
03	Active participation in routine class instructional deliveries and Overall conduct as a responsible learner, mannerism and articulation and exhibit leadership qualities in organizing related academic activities	05 Marks
	Total Marks	40 Marks

Question Paper Pattern
(Periodical Class Test)

Maximum Marks: 20

Duration: 40 Minutes

Questions to be set: 02

All Questions are Compulsory

Question No.	Particular	Marks
Q-1	Match the Column / Fill in the Blanks / Multiple Choice Questions/ Answer in One or Two Lines (Concept based Questions) (1 Marks / 2 Marks each)	10 Marks
Q-2	Answer in Brief (Attempt any Two of the Three) (5 Marks each)	10 Marks

B) Semester End Examination: 60 %**60 Marks**

- Duration: The examination shall be of 2 hours duration.

Question Paper Pattern

Theory question paper pattern
1. There shall be four questions each of 15 marks. 2. All questions shall be compulsory with internal options. 3. Question may be subdivided into sub-questions a, b, c... and the allocation of marks depends on the weightage of the unit.

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

Maximum Marks: 60

Questions to be set: 04

Duration: 2 Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question No	Particular	Marks
Q-1	Full Length Practical Question	15 Marks
	OR	
Q-1	Full Length Practical Question	15 Marks
Q-2	Full Length Practical Question	15 Marks
	OR	
Q-2	Full Length Practical Question	15 Marks
Q-3	Full Length Practical Question	15 Marks
	OR	
Q-3	Full Length Practical Question	15 Marks
Q-4	Full Length Question	15 Marks
	OR	
Q-4	Short Notes (Any three out of five)	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: 60

Questions to be set: 04

Duration: 2 Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question No	Particular	Marks
Q-1	Full Length Question	15 Marks
	<i>OR</i>	
Q-1	Full Length Question	15 Marks
Q-2	Full Length Question	15 Marks
	<i>OR</i>	
Q-2	Full Length Question	15 Marks
Q-3	Full Length Question	15 Marks
	<i>OR</i>	
Q-3	Full Length Question	15 Marks
Q-4	Full Length Question	15 Marks
	<i>OR</i>	
Q-4	Short Notes (Any three out of five)	15 Marks

Note:

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

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., 16 out of 40) in the Internal Assessment and 40% marks in Semester End Examination (i.e., 24 Out of 60) 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.
