St. Joseph's College of Commerce

(Autonomous)

163, Brigade Road, Bengaluru - 560 025

Accredited with 'A++' Grade (4th Cycle) by the National Assessment and Accreditation Council (NAAC)

Recognized by the UGC as "COLLEGE WITH POTENTIAL FOR EXCELLENCE"



Bachelor of Commerce(Analytics) Semester I & II

Syllabus as per Karnataka State Education Policy2024

Curriculum Framework w.e.f., 2024-2025

Academic Year 2025 - 2026

Batch 2025 - 2028

St. Joseph's College of Commerce (Autonomous) Affiliated to Bengaluru City University

St. Joseph's College of Commerce (SJCC) was formerly a part of St. Joseph's College, established in the year 1882. The Commerce Department was established in the year 1949 and it became an independent college with its own building in Brigade Road in the year 1972.

The college has in its Vision a model for higher education which encourages individuals to dreamof a socially just world and in its Mission a strategy to empower individuals in realizing that dream.

With an objective of imparting quality education in the field of Commerce and Management, the college has been innovating in all aspects of higher education over a long period of time. These innovations were further bolstered with the granting of autonomous status to the college by UGC in September 2005. From then on, the college has taken a lead in reforming curriculum and syllabus, examination and evaluation pattern and teaching and learning methods through the Board of Studies, the Academic Council and the Governing Council comprising of eminent academicians, industry representatives and notable alumni.

The college has undergone four cycles of NAAC accreditation starting from the year 2000 in which it secured 'five stars', next in the year 2007 an 'A' grade, in the year 2012 again an 'A' gradeand recently in February 2021 an 'A++'. It is one of the very few institutions in the country to have secured A++ grade in the fourth cycle under the Revised Accreditation Framework (RAF) and the first college in Karnataka to do so. The college was declared as a 'College with Potential for Excellence' in the year 2010. In 2011, SJCC was recognized as a Research Centre by Bangalore University. The college has been ranked 55th in the National Institutional Ranking Framework (NIRF) ratings of Ministry of Education, Government of India, in 2024 and it has been the only institution from Karnataka to make it consistently to the top 100 in the country.

The college offers diverse programmes in Commerce, Business Administration Arts and Science. Under Commerce Studies it offers B.Com, B.Com (Professional- International Accounting and Finance), B.Com (BPM- Industry Integrated), B.Com (Travel and Tourism), B.Com (Analytics), B.Com (Professional - Strategic Finance), M.Com (Finance & Taxation/ Marketing & Analytics), M.Com (International Business) & M.Com (Financial Analysis). Under Business Administration it offers BBA, BBA (Entrepreneurship) and BBA (Professional- Finance and Accountancy). Under Arts it offers BA (English, Communicative English and Psychology) and Under Science it offers B.Sc (Economics, Mathematics and Data Analytics). The college also offers five one-year Post Graduate Diploma programmes.

ABOUT THE DEPARTMENT

The B. Com Department of St. Joseph's College of Commerce has efficiently streamlined all its courses to reflect an interdisciplinary approach to understanding the contemporary business environment. Its aim is to construct a strong foundation in core subjects such as Accounting, Taxation, Economics, Statistics and Auditing along with a choice of Cost Accounting, Finance, Business Analytics, Marketing and Human Resources, studied in the fifth and sixth semester. The courses are challenging yet, rewarding for students with high aspirations. Our students have been sought after by employers for their excellent knowledge, skills and attitude, giving them an edge over their peers from other institutions. The B. Com Programme of the college is rated amongst the top 10 in the country (India Today, AC Nielson Survey 2016).

OBJECTIVES OF THE B.COM PROGRAMME

- a. To provide conceptual knowledge and application skills in the domain of Commerce studies.
- b. To provide knowledge in all the areas of business to be able to meet expectations of Commerce, Trade and Industry.
- c. To sharpen the students' analytical and decision-making skills.
- d. To provide a good foundation to students who plan to pursue professional programmes like CA, ICWAI, ACS, CFA and MBA.
- e. To facilitate students to acquire skills and abilities to become competent and competitive in order to be assured of good careers and job placements.
- f. To develop entrepreneurship abilities and managerial skills in students so as to enable them to establish and manage their own business establishments effectively.
- g. To develop ethical business professionals with a broad understanding of business from an interdisciplinary perspective.

I. ELIGIBILITY FOR ADMISSION

Candidates who have completed the two-year Pre-University course of Karnataka State or its equivalent are eligible for admission into this Programme.

II. DURATION OF THE PROGRAMME

The duration of the programme is three (03) years of Six Semesters. A candidate shall complete his/her degree within five (5) academic years from the date of his/her admission to the first semester. Students successfully completing three (03) years of the course will be awarded Bachelor's Degree in Commerce.

III. MEDIUM OF INSTRUCTION

The medium of instruction shall be in English.

IV. ATTENDANCE

- **a.** A student shall be considered to have satisfied the requirement of attendance for the semester, if he/she has attended not less than 75% in aggregate of the number of working periods in each of the courses, compulsorily.
- **b.** A student who fails to complete the course in the manner stated above shall not be permitted to take the End Semester Examination.

V. TEACHING AND EVALUATION

M.Com/MBA/MFA/MBS/MTA/MA/M.Sc graduates with B.Com, B.B.A, B.B.S,BA and B.Sc as basic degree from a recognized university are only eligible to teach and to evaluate the courses including part – B courses of I and II semesters except languages, compulsory additional courses and core Information Technology related courses, Skill based, Value Based and Foundation courses, mentioned in this regulation. These courses shall be taught by the Post graduates as recognized by the respective Board of Studies.

VI. SCHEME OF EXAMINATION

ACADEMIC EVALUATION UNDER STATE EDUCATION POLICY (SEP) (EFFECTIVE FROM ACADEMIC YEAR 2024-2025)

The academic evaluation of both undergraduate (UG) and postgraduate (PG) programmes consists of two components: Continuous Internal Assessment (Formative Assessment) and End-Semester Examination (Summative Assessment).

Assessment for UG Students under SEP will be as follows:

Type of Assessment	Assessment Component	Allotted Marks	
	CIA I (Test)	10 Marks	
Continuous Internal Assessment / Formative Assessment	CIA II (Skill-basedAssessment)	10 Marks	
	Mid-Term Exam	20 Marks	
Total	40 marks (scaled down to 2	0 marks)	
End-Semester Examination / Summative Assessment	End-Semester Examination (For three hours duration)	80 Marks	
TOTAL		100 Marks	

A. Additional Details

- **Mid-Term Exam**: The mid-term exam covers at least 40-50% of the syllabus and has duration of one hour.
- Continuous Internal Assessment (CIA) Activities: CIA activities are designed with clear objectives, modalities, assessment rubrics, and outcomes.

B. CIA improvement

There is **no provision for enhancing CIA marks** for UG students once the semester ends.

Attendance requirement for taking ESE

- The University Grants Commission (UGC) mandates a minimum of 75% attendance in each course to be eligible to write the End Semester Examinations (ESE).
- There is no provision for condonation of attendance under the UGC Act.

VII. MINIMUM FOR A PASS

- Minimum Pass Marks in Final Examination: A minimum of 40 percent is required in each course in the End Semester Exams. The student must score at least 32 marks out of 80 in the End Semester Examination (ESE).
- Overall Pass Requirement: The aggregate of Continuous Internal Assessment (CIA) and End Semester Examination (ESE) should also be a minimum of 40 percent. Out of 100 marks, a student must secure at least 40 marks in each course to qualify as passed inclusive of minimum 32 marks out of 80 in End Semester Exam.

VIII. GRADING SYSTEM FOR CHOICE BASED CREDIT SYSTEM (CBCS)

The modalities and operational details are given below:

• **Grade Points**: The College adopts a ten-point grading system. The papers are marked in a conventional way for 100 marks. The marksobtained are converted to grade point according to the following table. If a student is absent for the paper the grade point assigned is 0.

%	95 -	90 -	85 -	80 -	75 -	70 -	65 -	60 -	55 -	50 -	45 -	40 -	Below
Marks	100	94	89	84	79	74	69	64	59	54	49	44	40
Grade	10	9.5	9	8.5	8	7.5	7	6.5	6	5.5	5	4.5	0
Point													

Credits: Credits are assigned to courses based on the following broad classification:

Courses Category	Instruction Hours/week	Credits
Languages	3 Hours	3
Major Core	4 Hours	4
Skill Enhancement Courses	1-4 Hours	1-4
Compulsory Courses	1-2 Hours	1-2

Grade point calculation

• Semester Grade Point Average (SGPA): The SGPA is calculated as the sum of the product of the credits and the grade pointsscored in all courses, divided by the total credits.

SGPA = Total of (Credits Earned X Grade Points) ÷ Total of Corresponding Credits

- Minimum SGPA required for a pass is 4.5.
- If a student has not passed in all courses or is absent, the SGPA is not assigned.
- Cumulative Grade Point Average (CGPA): The CGPA is the weighted average of all the courses taken by a student across all semesters of a programme.

CGPA = \sum Total Credits in the Semester × SGPA ÷ Total Credits of the Courses

Note: SGPA and CGPA will be rounded off to two decimal places.

Interpretation of SGPA/CGPA and Classification of Final Result

Grade Points	% of Marks	Grade	Result/Class Description
9.00-10.00	85 - 100	О	Outstanding
8.00-8.99	75 - 85	A+	First Class Exemplary
7.00-7.99	65 - 75	A	First Class Distinction
6.00-6.99	55 – 65	B+	First Class
5.50-5.99	50 -55	В	High Second Class
5.00-5.49	45 - 50	С	Second Class
4.50 -4.99	40 - 45	Р	Pass Class
Below 4.5	Below 40	RA	To Re-Appear

IX. PATTERN OF ESE QUESTION PAPER UNDER SEP

The End Semester Examination (ESE) question paper under SEP will include questions that assess both Lower Order Thinking Skills (LOTS) and Higher Order Thinking Skills (HOTS). The difficulty level of the question paper will be distributed as follows: 40% easy, 30% difficult, and 30% very challenging.

Duration: 3 Hours Maximum Marks: 80

The question paper pattern will be as follows:

Sections	Marks perQuestion	Number of Questions	Total Marks
SectionA	2 marks	5 questions (out of 7)	10 Marks
SectionB	5 marks	4 questions (outof 6)	20 Marks
SectionC	12 marks	3 questions (outof 5)	36 Marks
SectionD	14 marks	1 question (Case Study)	14 Marks
Total			80 Marks

X. REVALUATION AND RETOTALING

Requests for **revaluation**, **retotaling**, and **photocopies of the answer book** for the End-Semester Examination (ESE) must be submitted to the Controller of Examination along with the prescribed fee within two weeks from the declaration of results.

XI. ABSENCE DURING END SEMESTER EXAMINATION

If a student misses the End Semester Examination, they will be marked as "Absent" and will be required to take the supplementary examination for that course during the next available opportunity only.

XII. MALPRACTICE

Students will be dealt severally in case if they are found guilty of any malpractices during examination. The college has zero tolerance towards any kind of foul-means adopted to secure marks in the exams.

Outcome Based Education (OBE)

B. Com Analytics

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

Our **B.** Com (Analytics) program willproduce graduates who will:

PE 01	Be competent, creative and highly valued professionals in industry,
	academia, or government.
PE 02	Adapt to a rapidly changing environment with newly learnt and applied
	skills and competencies, become socially responsible and value driven
	citizens, committed to sustainabledevelopment
PE 03	Act with conscience of global, ethical, societal, ecological and commercial
	awareness with sustainable values as is expected of professionals contributing
	to the country.
PE 04	Able to continue their professional development by obtaining advanced
	degrees in accounting and other professional fields.

PROGRAMME OUTCOMES (POS)

After the completion of the **B. Com (Analytics)** Programme, the student will be able to:

$\mathbf{p}_{\mathbf{Q}}$	D' ' 1' 11 (1' ' 1' 1' 1/ 1 1
PO 1	Disciplinary and Inter-disciplinary Knowledge:
	Demonstrate the understanding of relevant business, management and
	organization knowledge, both academic and professional, in line with industry
	standards
PO 2	Decision Making Skill:
	Apply underlying concepts, principles, and techniques of analysis, both within
	and outside the discipline to generate all the possible solutions and pick one that
	shows their understanding of the problem and the outcomes.
PO 3	Integrated Problem-Solving and Research:
	Analyze how parts of a whole interact with each other to produce overall
	outcomes in complex systems by analyzing key managerial issues in a particular
	industry or company and propose appropriate managerial solutions to the
	situation
PO 4	Critical Thinking Skill:
	Evaluate evidence, arguments, claims and beliefs by using right type of reasoning
	as appropriate to the situation and Analyze how parts of a whole interact with
	each other to produce overall outcomes in complex systems.
PO 5	Creative Thinking Skill:
100	Develop, implement and communicate new and worthwhile ideas using both
	incremental and radical concepts to make a real and useful contribution to their
	•
DO 6	work
PO 6	Usage of Modern Technology and Tools:

	Use tools and technologies of digital nature, communication/networking tools
	and social networks appropriately to access, manage, integrate, evaluate and
	create information to successfully function in a knowledge economy.
PO 7	Leadership and Team Work:
	Develop a vision, translate that vision into shared goals, and effectively work with
	others to achieve these goals
PO 8	Ethical Conduct:
	Act responsibly and sustainably at local, national, and global levels.
PO 9	Collaboration:
	Work collaboratively and respectfully as members and leaders of diverse teams.
PO 10	Self-Directed and Life-Long Learning:
	Create goals and monitor progress toward them by developing an awareness of
	the personal, environmental and task-specific factors that affect the attainment of
	the goals.

PROGRAMME SPECIFIC OUTCOMES (PSOS)

PO 11	Developing analytical model
	Develop models to identify and evaluate complex business challenges by
	analysing data using analytical techniques and visualising tools.
PO 12	Application of analytical model
PO 12	

*		PROCRAM	B.COM (Analytics) ME MATRIX AS PER		ION BOLICY		
Category/Semest er	I	II	III	IV IV	V	VI	TOTAL
		F. V. Y	Part A : La	inguages			
Language	Lang I	Lang I	Lang I	Lang I		(#K	
4 Hrs - 3 Crs	Lang II	Lang II	Lang II	Lang II	-		
Part A Credits	6 Crs	6 Crs	6 Crs	6 Crs		\$ # \$	24
	x. Ve	xx. 22	Part B: Cor	e Courses		72 55 33 52	
	Financial Accounting	Corporate Accounting	Cost Accounting	Financial Management	Management Accounting	Operations Research	
Major Core	Business Statistics I	Business Statistics II	R Programming for Analytics	Python Programming for Analytics	Income Tax I	Income Tax II	
Courses 4 Hrs - 4 Crs	Mathematics	Business Economics	Human Resource Management	Marketing Management	Machine Learning with Python & R Programming	Advanced Analytics with Python and R Programming	
	Principles of Management	Business Law	Principles & Practices of Auditing	Banking and Insurance	NIL	Goods and Service Tax	
Major Elective Courses 4 Hrs - 4 Crs					DBMS with SQL	Data Visualization with Tableau & Power BI	
Part B Credits	16	16	16	16	16	20	100
		Part C : S	kill Enhancement C	ourses/Activities			
Skill Based Courses		MOOCs /	Introduction to	Big Data Analytics 2Crs	Research Methodology (4 Crs)	Social Internship 2 Crs	
/Activities 2 Crs		Certificate Course 1 Cr	Spreadsheet 2Crs	MOOCs / Certificate Course 1 Cr	Research Project (4Crs)	Corporate Internship 2 Crs	
Value Based Activities 1Cr		Extracurricular Activities 1 Cr		Extracurricular Activities 1 Cr	裁	Extension Activities 1 Cr	
Part C Credits		2 Crs	2 Crs	4 Crs	8 Crs	5 Crs	21
		P	art D: Foundation/C	Compulsory Course	28		
Foundation/ Compulsory Courses 2 Hrs/2 Crs	Psychological Well being 1 Cr Constitutional Value I 2 Crs	Constitutional Value II 2 Crs	Environmental Studies 2 Crs	•	(*))	•	
Part D Credits	3 Crs	2 Crs	2 Crs				7
Total	25 Crs	26 Crs	26Crs	26Crs	24 Crs	25Crs	152

B. Com (Analytics)

Course Structure

Semester I

Course Code	Title of the Course	Category	Lecture Hours per week	CIA	ESE	Credit s
C5 24 GE 101	General English	Language 1	3	20	80	3
C5 24 KN 101	Kannada					
C5 24 HN 101	Hindi	Language 2	3	20	80	3
C5 24 AE 101	Additional English					
C5 24 MC 101	Financial Accounting	Major Core	4	20	80	4
C5 24 MC 102	Business Statistics I	Major Core	4	20	80	4
C5 24 MC 103	Mathematics	Major Core	4	20	80	4
C5 24 MC 104	Principles of Management	Major Core	4	20	80	4
UG 24 FC 101	Psychological wellbeing	Compulsory course	1	25	-	1
UG 24CC 101	Constitutional Values I	Compulsory Course	2	10	40	2
	Total cre	155	520	25		

Department of Commerce										
	Programme: B. Com (Analytics)									
Semester	•	Course Code	Course Title	Course Duration	Course Type	Teaching Hours Per week	Credits			
I		C5 24 MC 101	Financial Accounting	60 Hours	Major Core	4 Hours	4			
Course		The cours	e aims to equip	the student	s with th	e conceptual l	knowledge			
Objective	es:	and skills	required to p	prepare and	evaluate	financial sta	tements of			
		different l	ousiness organi	zations.						
Course C						T Levels	K Levels			
After con	npletior	n of the cou	rse, the student	s will be able	to:					
CO1	Descri	be the cor	ncepts, conven	tions, and T	Terms of	T2	K3			
	Financ and IF		ting as per the	framework o	of Ind AS					
	_	-	Ledger and rors as per Ind		nce and	Т3	K4			
CO3	Constr	uct fina	ncial State:	ments of	Sole	T5	K4			
			and Partners	ship incorpoi	rating all					
		essary adju								
			nt of the pres			Т3	K4			
		_	Ind AS to the	Companies A	Act, 2013					
COF	· · · · · · · · · · · · · · · · · · ·	ded till da		1 1	1	TO	K4			
	Prepare Cash flow statements as per old and new methods.									
			Profitabilit	•		Т6	K4			
			analysis and T	rend Analysi	s.					
Module 1	1	Conceptu	ıal Framework				10 Hours			

Introduction to Ind AS, IFRS, Challenges in implementation, Accounting Concepts - Accrual concept, Going Concern Concept, Business Entity Concept, Consistency Concept, Elements – Assets, Liabilities, Incomes, Expenditure and Equity for Sole proprietor, Partnership firm and Company. Four Pillars of accounting and Accounting Equation. Applicability of Ind AS – Voluntary Adoption and Mandatory Applicability – Phase I, II, III and IV. Role of accountant – Ethical values – Integrity, Objectivity, Professional competence and care, confidentiality, Professional behaviour.

Module 2	Accounting Process	10 Hours
Accounting Pro	ocess - Journal (including transactions covering GST on p	urchases
andsales), Ledg	er, and Trial Balance, Rectification of Errors (Journal entry pr	oblems
Module 3	Financial Statements	15 Hours

Preparation of Financial statements- Profit & Loss statement and Balance Sheet. Adjustments for Ongoing transactions- Goods & cash withdrawn by proprietor, goods lost by fire, goods issued as free sample, Prepaid expenses, Outstanding expenses, Interest oncapital, Interest on drawings, Interest on loan, Provision for Bad debts and Doubtful debts, Depreciation, Commission payable before and after charging such commission. (Sole proprietor and Partnership Firm)

Module 4	Company Financial Statements	5 Hours			
Company Fina	ncial Statements - Objectives, Format of the presentation of F	inancial			
Statement as per Ind AS to the Companies Act, 2013 (Amended till date).					

Module 5 Preparation and Presentation of Cash flow Statement 10 Hours

Meaning of Cash flow, Classification of Activities – Operating, Investing and Financing(Simple problems on identification of activities).

Module 6 Basic Financial Statement Analysis 10 Hours

Introduction to Ratios - Computation of ratios based on liquidity, Solvency, Activity & Profitability [problems based on calculation of ratios] - Trend Analysis

Skill Development:

(These activities are only indicative, the Faculty members can innovate)

1	Generate financial statements using Tally.
2	Prepare and present a summary on a company's published annual report which includes profitability analysis, financial position, cash positionand accounting policies.
3	Compute the profitability ratios, turnover ratios and solvency ratios on
	the published financial statement of a company of your choice.
4	Compare and analyse the profitability ratios, solvency ratios between
	two companies using published financial statements.
5	Analyse a cash flow statement with from published annual report.

Book for Reference:

1	Jain, S. P., & Narang, K. L. (2022). Advanced Accounts (12th ed.). Kalyani
	Publishers.
2	Maheshwari, S. N. (2022). Advanced Accountancy (5th ed.). Vikas
	Publishing House.
3	Sehgal, A., & Sehgal, D. (2022). Advanced Accounting (2nd ed.). Taxmann
4	Shukla, M., & Grewal, T. (2022). Advanced Accountancy (11th ed.). Sultar
	Chand & Sons.
5	Banka, A. (2022). Comprehensive guide to IND AS Implementation (2nd ed.).
	Taxmann.

International Accounting Standards Board (IASB). (2023). IFRS

Mapping of CO and PO

publications. IASB.

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	Н	Н	M	M	L			L				L

CO2	L	M		L	Н	Н			M	L
CO3	L	M		L	Н	Н			M	L
CO4	M	Н	Н	M		L			L	L
CO5	L	M		L	Н	Н			M	L
CO6	L			Н	Н	M		L	M	L

	Department of Commerce Programme: B. Com (Analytics)							
Semes	ster	` , ,						Credits
I		C5 24 MC 102	Business Statistics - I	60 Hours	Major Core		4	4
Course Objective	ves:	Statistics	se aims to cre and scope of its rious tools.					_
Course	Outco	• • • • • • • • • • • • • • • • • • • •					T	K
After co	mplet	ion of the co	ourse, the student	s will be able	to:		Level	s Levels
CO1	_		asic concept of business decisi		-	of its	T2	К3
CO2			propriate meas ven data for bus			-	Т3	К3
CO3							K3	
CO4	Show the statistical data, construct and comprehend T3 K3 in Diagrammatic and graphic representation.						К3	
CO5	Use	the conce	pt of Skewness stribution and t	and Kurtos	sis to deteri	mine	Т3	K3
Modu		Introducti						10 Hours

Definition - Need for Statistics - Scope - Limitations - Definition of Research - Scope - Types - Objectives - Steps in Research. Ethics to be followed by a statistician and role of statistics in sustainable development. Classification of data - Formation of Statistical Series - Frequency Distribution (univariate and bivariate) and Tabulation. Population - Sample -Types of Data - Primary and Secondary Data: Qualitative - Quantitative - Cross Sectional - Time Series - Variables and Attributes - Discrete and Continuous Variables - Types of Scales- nominal, ordinal, ratio and interval.

Module 2	Measures of Central Tendency	15 Hours
Meaning of	Central Tendency - Definition - Types of Averages - A	Arithmetic
	le, Weighted and Combined). Median – Mode (excludin	
frequency p	problems) - Quartiles - Deciles - Percentiles (applications, is	mportance,
merits and de	emerits)	
Module 3	Measures of Dispersion	12 Hours
Mean Deviati	refinition - Importance of Dispersion - Range - Quartile Design on - Standard Deviation - Variance - Coefficient of importance, merits and demerits).	eviation - Variation
Module 4	Diagrammatic and Graphical Representation of Data	10 Hours
Dimensional Diagram, Di rectangles)	representation of Data in Diagrams and Graphs - l - Line, Bar, Simple, Sub-Divided, Percentage Bar, Mult eviation Bar Diagram, Two-Dimensional Bar Diagrams (b - Pie Diagram. Ogives (less than and more than) -Historequency Curve - Frequency Polygon.	iple Bar y using
	Skewness and Kurtosis	13 Hours
	- Meaning - Definition - Difference between Dispersi	
Skewness - Skewness ba Coefficient	Measures of Skewness: Karl Pearson's and Bowley's Coeff Moments (about mean and arbitrary point)- Coeffic ased on Moments. Kurtosis - Meaning - Need - Measure of of Skewness based on Moments	icient of cient of
Skill Develop	·	
1	Analyse and compute the different measures of central tend business variables and to identify that which measure of central suits the data.	
2	Analysis of data by applying descriptive statistics for the properties of data by applying descriptive statistics for the properties of data by applying descriptive statistics for the properties of data by applying descriptive statistics for the properties of data by applying descriptive statistics for the properties of data by applying descriptive statistics for the properties of data by applying descriptive statistics for the properties of data by applying descriptive statistics for the properties of data by applying descriptive statistics for the properties of data by applying descriptive statistics for the properties of data by applying descriptive statistics for the properties of data by applying descriptive statistics for the properties of data set.	ourpose of
3	Prepare a Visual presentation of a company's financial state using diagrams and graphs for finding year to year change	
4	Compute skewness and kurtosis of a data and identify challenges for further analysis.	
Book for Refe		
1	Croxton, F. E., Cowden, D. J., & Kelin, S. (1973). Applied General Prentice-Hall of India.	al Statistics.
2	Black, K. (2019). <i>Business Statistics</i> (3rd ed.). Wiley.	
	Gupta, S. C., & Kapoor, V. K. (2020). Fundamentals of Mathematic	al Statistics
3	(12th ed.). Sultan Chand & Sons.	ui Siulistics
4	Sarma, K. V. S. (2020). <i>Statistics Made Simple: Do it yourself on PC</i> (Prentice-Hall of India.	(2nd ed.).
5	Bhat, B. R., Srivenkatramana, T., & Rao, M. K. S. (2020) <i>A Beginner's Text</i> (Vol. II). New Age International.	. Statistics:
6	Veerarajan, T. (2019). Probability, Statistics, and Random Processes Tata McGraw-Hill	s (4th ed.).

Mapping	of CC) and	PO									
CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	Н	Н	M	L	L					L	M	
CO2	Н	M	M	L	L			L			Н	
CO3	L	Н	M	L	Н			L				M
CO4	M	L	Н	L	Н					L		M
CO5	M	M	Н	L	L			L				Н

	Department of Commerce Programme: B. Com (Analytics)								
Semes	ter	Course Code	Course Title	Course Duration	Course Type	Teaching Hours Per week	Credits		
I		C5 24 MC 103	Mathematics	60 Hours	Major Core	4	4		
Course Objectiv	es:	algebra, d Through t develop	se aims to provi ifferential and ir theoretical learn essential proble n addressing s.	ntegral calcul ling and prac em-solving s	us, and mat ctical applic kills releva	hematical m ations, stud nt to math	odelling. ents will nematical		
Course C	Outco	mes				T	K		
After cor	mpleti	on of the co	ourse, the student	ts will be able	to:	Levels	Levels		
	calcu	minants, . lus and	apply the Algebra, integradifferential equalsion making.	ral calculus	ke Matric , Different conomics a	ial	К3		
CO2	Form	ulate cost,	profit, revenue : ima-minima pro		d optimize t	he T5	K3		
CO3	Deve	lop a Mod ems in Bu	del and address usiness and Eco	s the dynan			К3		
C	CO4 Develop a comprehensive understanding of differential T5 K3 calculus and its practical applications, enabling them to solve optimization problems in various fields, including economics, business, and science.								
i a	ntegra analyz	ntion, equi ing and sol	retical and prapring them with wing business-related and finagement, and fi	th the tools lated problem	necessary	for	К3		

		Matrices, Determinants and Applications		15 Hours
Apply the theory and techniques of differential equations to model and solve practical problems in various fields.				K3

Matrices: Review of fundamentals: Definition of matrix, order, Types of matrices, Determinant: Value of determinant of order 2x2 and 3x3, minors, cofactors, adjoint, row operations, inverse using formula method and row operations (2x2 and 3x3 matrices only). System of linear equations, augmented matrix, row operations, row echelon form, reduced row echelon form, existence and uniqueness of the solution, Gauss - Elimination method, Cramer's and matrix methods (2x2 and 3x3 matrices only).

Applications – Linear systems: Investment Problems, Traffic Flow, and Balancing the Chemical equations, and data encryption and decryption using a matrix andits inverse.

Module 2 | Algebra | 10 Hours

Equations, Degree, Roots of an equation (Including complex roots), Solving Linear and Quadratic equations, Cubic Equations, Synthetic Division Method, Bi-quadratic equations, Nature of the roots, Binomial Theorem (statement and expression only), and Partial Fractions.

Module 3 | Eigen values and Eigenvectors

10 Hours

Definition, Characteristic equation, Eigen values, Eigen vectors (2x2 and 3x3 matrices only). Cayley Hamilton theorem (Only statement), verification of Cayley Hamilton theorem (only 2x2 and 3x3 matrices), using the same finding the powers of A and Inverse of a Matrix using Cayley Hamilton theorem.

Module 4 Differential Calculus

15 Hours

Functions, Limits and Continuity, Differentiability (concepts only), Derivative of a function, derivatives of the standard functions (excluding trigonometric functions), Rulesof Differentiation: addition/subtraction, scalar multiplication, product, quotient, chain, Differentiation of Parametric functions, Partial Derivatives, Maxima and Minima, Applications: Cost minimization and Revenue and Profit maximization, Break Even Point, Marginal Cost, Marginal Revenue, and price elasticity of demand.

Module 5 Integral Calculus

15 Hours

Introduction, Indefinite Integration, Standard Integrals (excluding trigonometric functions), Rules of Integration: addition/subtraction and scalar multiplication, Integration by Substitution, Integration by Parts, Integration by resolving into Partial Fractions, Applications of Integration in business (finding cost, revenue functions from marginal cost and marginal revenue functions)

Module 6 | Mathematical modelling through Differential Equations

10 Hours

First order Linear Ordinary Differential Equations, Homogeneous and Non-Homogeneous Differential Equations. Applications- Exponential Growth model (Continuous compounding of an invested money) and Logistic Growth model (Business applications: fishery, rabbits, piggery etc.)

Skill Development:

(These activities are only indicative, the Faculty members can innovate)

1	Solve and visual system of linear equations with 3 variables on GeoGebra website (Math visualizer platform)
2	Represent the functions graphically and identify the roots on a math visualizer software.
3	Understand maxima – minima procedure graphically through a math visualizer software.
Book for Refe	erence:
1	Arora, P. N., & Arora, S. (2021). <i>Mathematics</i> (2nd ed.). S. Chand Publishing.
2	Agarwal, D. R. (2022). <i>Comprehensive Mathematics</i> (6th ed.). Tata McGraw-Hill Education.
3	Sharma, A. (2021). Business Mathematics and Analytics. Wiley.
4.	Goel, A., & Goel, A. (2021). <i>Mathematics and Statistics</i> . Laxmi Publications.
5	Singh, J. K. (2021). <i>Business Mathematics</i> (3rd ed.). Tata McGraw-Hill Education.
6	Stall, R. R. (2015). Linear Algebra and Matrix Theory (2nd ed.). Jones & Bartlett
	Learning.
Mapping of	
	DA DOS

СО/РО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1				L	L	Н	M				M	Н
CO2	L			L			M		Н		Н	M
CO3	L			L		M	Н				Н	M
CO4	L				M	M					Н	Н
CO5	L		L			M	Н				Н	M
CO6	L		L	L				Н		M	M	Н

					W	eek		
I	C5 24 MC 104	Principles of Management	60 hours	Major Core		4	4	
Course		e content is desig		-				
Objectives	concepts a entity.	nd principles of	management	required for	r a su	ccessfu	l business	
Course Ou	ıtcomes					T	K	
After com	pletion of the co	ourse, the student	ts will be able	to:		Levels	Levels	
CO1	Explain the skills of a M	principles of Nanager.	Management	and role	and	T2	K2	
CO2		planning, foreca given organizatio		lecision mak	ing	T5	K3	
CO3		function of or n of their effort o			in	T4	K3	
CO4		range of leaders ools available in t			and	T4	К3	
CO5		e range of motiv on available for				T4	К3	
CO6	Describe the factors affecting ethical practices in Business and social responsibilities of management towards all the stakeholders and identify the recent trends in the application of technology in Management.							
Module 1	1 Introduction Thought	on to Manageme	nt and Histor	ry of Manago	emen	it 1	2 Hours	
Introduction	n: Meaning	- Nature and	Characteristi	cs of Mana	igem	ent – S	Scope and	

Department of Commerce Programme: B. Com (Analytics)

Course

Duration

Course

Type

Teaching

Hours Per

Credits

Course Title

Semester

Course

Code

Introduction: Meaning – Nature and Characteristics of Management – Scope and Functional Areas of Management – Management as an Art, Science or Profession – Management and Administration – Principles of Management (scientific principles, Fayol's 14 principles)- Roles and skills of managers.

Evolution of Management Thought: Pre-scientific Management (introduction to classical thoeries) – Taylor's Scientific Management.

Module 2 Planning Forecasting and Decision Making 10 Hours

Planning: Nature - Planning Process - Objectives - Types of plans - MBO (Peter Drucker)& MBE

Forecasting: Meaning and purpose of forecasting - Techniques of forecasting Qualitative and quantitative.

Decision Making: Meaning - Types of decisions -phases of Decision Making - Steps in decision making - Delegation and Principles of delegation.

Module 3	Organizing and Staffing	10 Hours
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Organizing: Nature and Purpose of Organization – Principles of Organization–Organization structure and types – Departmentation – Committees – Centralization vs. Decentralization of Authority – Span of Control – Meaning - Factors affecting span. Staffing: Importance and Process of Staffing.

Module 4 | Leadership, Directing and Controlling

10 Hours

Leadership: Meaning – Leadership styles – Theories of leadership. Directing: Meaning – Principles and techniques of directing.

Controlling: Meaning and definition – Features – Steps in controlling and methods of establishing control. Techniques of controlling – Budgetary and non-budgetary.

Module 5 Co-ordination and Motivation

12 Hours

Co-ordination: Meaning – steps and methods of co-ordination.

Motivation: Meaning - Theories of motivation - Carrot & Stick approach - Maslow's - Mc Gregor's - Herzberg's - ERG - Mc Clelland's - Vroom's Expectancy - William Ouchi's theory Z.

Module 6 Business Ethics and Recent trends in Management

6 Hours

Meaning – Need and importance - Principles of ethics -profits and ethics – Factors affecting ethical practices in Business Social Responsibilities of Management – Meaning, Social responsibilities of business towards various groups.

Recent Trends in Management - Continuing digitization in the business world, Artificial Intelligence in various functions of management, importance of data and analytics in management

Self-Learning Topics:

1	Module 1: Scientific principles, Fayol's 14 principles, Classical Theories
2	Module 3: Importance and Process of Staffing.

Skill Development

Skill Develo	pment:
(These activities	es are only indicative, the Faculty members can innovate)
1	Evaluate the innovate concepts of Principles of Management laid on
	HenryFayol in different industries.
2	Examine the impact of strategic partnerships with market research firms.
3	Analyze the impact of expansion from product to channel & customer profitability analysis.
4	Application of Predictive accounting & business intelligence on EnterprisePerformance Management.
5	Present the Seven C attributes shared by experts of Covid 19 pandemic in Harvard School Business Working Knowledge. Analyse these attributes and their applicability in the Indian Corporate Scenario.

Book for Reference:

1		Vasishth, N., & Vasishth, V. (2019). <i>Principles of Management: Text & Cases</i> (5th ed.). Taxmann Publications.										
2		Robbins, S. P., Coulter, M., & Fernandez, A. (2019). <i>Management</i> (14th d.).Pearson Education.										
3	D	urai, P	. (2018). Princ	ciples o	f Mana	gement	(2nd	ed.). Pe	earson I	ndia.	
4 Mapping	ec	l.).Mc0	Graw-	, & Vo Hill Ed			. A. (20	007). Pi	rinciple	s of Mar	nagemen	t (1st
CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	Н	M	L	M	Н				L		L	
CO2	Н	Н	M	M	L		-	L				L
CO3	Н	M	Н	M	L			L			L	

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Department of Commerce Programme: B. Com (Analytics)								
Semester	Course Code	Course Title	Course Duration	Course	Teaching Hours Per week	Credits		
I	UG 24 FC 101	Psychological Well-being	30	Compulsory Course	2	1		
Course Objectives:	This course aims to nurture self-awareness and meaningful relationship skills and to help in the development of emotional quotient and interpersonal skills.							
Course Outcome	es				T	K		
After completion	of the cou	ırse, the student	s will be ab	le to:	Levels	Levels		
CO1	Develop	a better emotio	nal quotien	t.	T5	K2		
CO2	Devise a	healthier sens	e of self t	hrough self-	T5	K2		
CO3	Build m	ore meaningful	relationshi	ps.	T4	K2		
CO4	Display skills.	an improven	nent in ir	nter-personal	T4	K2		
CO5	Modify	thought and be	lief pattern	S.	T4	K2		
CO6	Understa	and the grieving	process		Т3	K2		

Module 1	Introduction	3 Hours					
Meaning of cour	l Inselling – Myths and Facts related to counselling – Breaking s						
	elling - Normalizing seeking help - Self-reflection through co						
Module 2	Intra-personal and Inter-personal Awareness	10 Hours					
Effects of low self-improve self-estern Meaning of peer	Meaning of self-esteem – Factors that influence self-esteem – Importance of self- esteem – Effects of low self-esteem – Qualities seen in people with high vs. low self- esteem – How to improve self-esteem – Self-awareness activity Meaning of peer pressure – Different kinds of peer pressure – Resisting peer pressure – Confronting peer pressure – Group sharing activity						
Rights in a rela	ionships - Types of relationships - Healthy relationship dynar tionship - Components of a healthy relationship - Types timacy and understanding our needs - Boundaries						
Module 3	Understanding Emotions	4 Hours					
effects of suppre healthy manner	tions - Role of emotions in our lives - Beliefs regarding emotions emotions - Signs of emotional suppression - Handling - Self-assessment activity	g emotions in a					
Module 4	Anger management	5 Hours					
express anger - E	r - Physical and Emotional symptoms of anger - Different was expression and experience of anger - What makes us angry and ry - Dealing with anger - Guided visualization and art activity	d what it means					
Module 5	Managing Anxiety/Fear	4 Hours					
_	- Types of fear - Physical and Emotional symptoms of fe - Overcoming fear - Art work followed by group sharing acti						
Module 6	Dealing with Loss and Grief	4 Hours					
Dealing with grid Skill Developn		f not grieving-					
	re only indicative, the Faculty members can innovate) Maintaining Daily or weekly journal to record the emotion	as falt tuissaus					
1	etc.	is ieit, triggers					
2	Guided mindfulness session and reflection on focus and acc	eptance.					
3	Act out a scenario involving a cognitive distortion (e.g., complete, and-white thinking).	atastrophizing,					
4	Discuss different types of boundaries (emotional, physical, Role-play scenarios: Saying no, requesting space, asking for	•					
5	Reflect on values using a list (e.g., honesty, creativity, family						
6	Normalize challenges and highlight growth through stor group submissions.	ry -telling and					
Book for Referen							
1	Jones, R. N. (2023). Theory and Practice of Counselling and The SAGE South Asia	erapy (5th ed.).					
2	Ryff, C. D., & Singer, B. (2008). Know thyself and become a Eudaimonic approach to psychological well-being. In J. D.						

	International Encyclopaedia of the social sciences (2nd ed., Vol. 8, pp. 143-148).
	Macmillan.
3	Seligman, M. E. P. (2011). Flourish: A New Understanding of Happiness and
	Well-being – and how to achieve them. Free Press
4	Lyubomirsky, S. (2007). The How of Happiness: A Scientific Approach to getting
	the life you want. Penguin Press.
5	Neff, K. D. (2011). Self-Compassion: The proven power of being kind to yourself.
	William Morrow.
6	Gilbert, P. (2010). The Compassionate Mind: A new approach to life's challenges.
	Constable.

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	L				M	M			Н	Н	L	L
CO2	L				M	M			Н	Н	L	L
CO3	L				M	M			Н	Н	L	L
CO4	L				M	M			Н	Н	L	L
CO5	L				M	M			Н	Н	L	L
CO6	L				M	M			Н	Н	L	L

	Department of Commerce B. Com (Analytics)												
Semester	Course Code	Course Title	Course Duration	Course Type	Teac hing Hour s Per wee k	(Credits						
I	UG 24 CC 101	Constitutional Values I	30 Hours	Compulsory Course	2		2						
Course Objectives:	constitution, evolution, analyze th shaping d	rse aims to proposed on all values in In and practical and interplay between the mocratic governs democratic ideas	dia, focusing application ween constitution and constitut	ng on the fou of the Cons tutional rigic	ndation stitution lity and	al prir . It se flexib	nciples, eeks to ility in						
Course Outo	omes:					T	1 0						

After con	npletion of the course, the students will be able to:	Level	Levels
		S	
CO1	Analyze and explain the significance of constitutional rigidity and flexibility in the context of democratic values.	T4	K2
CO2	Evaluate the contributions of key figures like Dr. B.R. Ambedkar, Nehru, and Patel in the making of the Indian Constitution.		K2
CO3	Demonstrate the impact of Fundamental Rights, Directive Principles, and Fundamental Duties in promoting social justice, unity, and integrity in India		K2
Module	Introduction - Constitution of India, Constituent Assembly, Preamble	10 Hot	ırs

i.The Making of the Constitution of India: Evolution, Nationalist Movement, Composition of the Constituent Assembly, Committees of the Constituent Assembly, Enactment of the Constitution.

- ii. Constituent Assembly: Role of Dr B.R. Ambedkar, Javaharlal Nehru, Sardar Vallababhai Patel
- iii. Preamble of the Indian Constitution Values enshrined in the Preamble; Sovereign, Secular, Socialistic, Democratic, Republic, Justice, Liberty, Equality and Fraternity.

Module 2 Fundamental Rights and Duties

10 Hours

- i. Salient Features of Indian Constitution and Basic Structure
- ii.Fundamental Rights and how these Rights are safeguarding individual liberties iii.Directive Principles of the State Policy; Socialist, Gandhian, and Liberal-Intellectual.
- iv. Fundamental Duties

Module 3 Union Legislature, Executive and Judiciary

10 Hours

- i.Union Legislature Parliament; Lok Sabha, Rajya Sabha Composition, powers, functions
- ii.Union Executive President, Vice President, Prime Minister, Union Council of Ministry, powers and functions, Leadership and collective responsibility
- iii.Judiciary Supreme Court, High Courts, powers and functions and Judicial Activism in India

Skill Development:

(These activities are only indicative, the Faculty members can innovate)

1	Make a chart of evolution of Constitution of India and the Preamble.
	Identify a case/scenario and analyse the fundamental rights and duties of the parties involved.
	Make a chart of the powers and functions of Union legislature, executive and the judiciary.

Book for Reference:

B. K. Sharma, Introduction to the Constitution of India, Prentice Hall of India, New Delhi, 2002.
 Austin, G. (1999). The Indian Constitution: Cornerstone of a Nation. Oxford University Press.
 P. M Bakshi, Constitution of India, Universal Law Publishing House, New Delhi, 1999

4	D. D. Basu, Introduction to the Constitution of India, Prentice Hall of India, New
	Delhi, 1982.
5	D. C. Gupta, Indian Government and Politics, Vikas publishing House, New Delhi, 1975
6	S. N. Jha, Indian Political System, Historical Developments, Ganga Kaveri Publishing House, Varanasi, 2005

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO1 1	PO12
CO1	Н	L	Н	L	M		M			L		
CO2	Н		Н	L	M		M	L		L		
CO3	Н	L	Н	L	M		M			L		

B. Com (Analytics) Course Structure Semester II

Course Code	Title of the Course	Category	Lecture Hours per week	CIA	ESE	Credits
C5 24 GE 201	General English	Language 1	3	20	80	3
C5 24 KN 201	Kannada					
C5 24 HN 201	Hindi	Language 2	3	20	80	3
C5 24 AE 201	Additional English					
C5 24 MC 201	Corporate Accounting	Major Core	4	20	80	4
C5 24 MC 202	Business Statistics II	Major Core	4	20	80	4
C5 24 MC 203	Business Economics	Major Core	4	20	80	4
C5 24 MC 204	Business Law	Major Core	4	20	80	4
UG 24 SB XXX	MOOCs / Certificate Course	Skill Based Course		20	80	1
UG 24 VB XXX	Extracurricular Activities	Value Based Activities		20	80	1
UG 24 CC 201	Constitutional Values II	Compulsory course	2	20	80	2
	Tot				26	

Department of Commerce								
Semester	B. Com (Analytics) Course Code Course Title Course Duration Type					Credits		
II	C5 24 MC 201	Corporate Accounting	60 Hours	Major Core	4	4		
Course	1							
	bjectives students with regard to Corporate Accounting concepts and techniques. ourse Outcomes: T K							
	letion of the course, t	he students wi	ill be able to	:	Levels	Levels		
CO1	Construct the financial statements of company as per the frame work of Ind AS.							
CO2	Devise a plan for Rec	Devise a plan for Redemption of Preference shares. T5 K3						
CO3	Reconstruct the capital structure of financial statement of Joint stock company ltd. after making necessary in connection with internal reconstruction.							
CO4	Construct the Balance sheet after making necessary in T5 K3 connection with Amalgamation.							
CO5	Construct the Balance sheet after making necessary in Connection with Absorption.							
CO6	Construct the Balance sheet after making necessary in connection with external re- construction.							
Module 1	Preparation and Pres	entation of Fina	ncial Statem	nents	20 Hou	rs		

Preparation and Presentation of Financial Statements as per Ind AS Schedule III (Excluding Consolidated Financial Statement) Overall Comprehensive Income, Changes in Equity, Cash Flow, Profit & Loss Statement, Balance Sheet.

Treatment of Special Items - Depreciation calculated as per Schedule II, Interest on Debentures, Provision for Tax, Dividends-Interim dividend, final dividend, Unclaimed Dividend, Corporate Dividend Tax. Organisation for Economic Cooperation and Development (OECD) - Principles of

Corporate Governance - Six principles (concept only) - Global Reporting Initiative (GRI) - Sustainability reporting in preparation and presentation of financial statements.

Module 2 | Redemption of Preference Shares

10 Hours

Meaning, Legal provisions as per section 55 of Companies Act 2013, Treatment of Premium received on issue of shares Section 52, Creation of Capital Redemption Reserve (CRR), Fresh issue shares, Arranging for cash balance for the purpose of redemption (Use of Equation for finding out minimum or sufficient number of shares to be issued to the public at the time of redemption of preference shares) Minimum number of shares to be issued for redemption, Issue of Bonus shares by using CRR account, Basics of Buy Back of Shares.

Module 3 | Internal Reconstruction - Capital Reduction

10 Hours

Meaning, Objective, Procedure, Form of Reduction, Reorganisation through surrender of Shares, Subdivision and consolidation of shares, Materialisation of Contingent Liability

Module 4 | Amalgamation

10 Hours

Meaning of Amalgamation, Types of Amalgamation, Merger and Purchase, Calculation of Purchase Consideration, Accounting entries in the books of Selling or Vendor Company, Ledgeraccounts in the books of Selling Company, Journal entries in the books of buying company and Preparation of Opening Balance sheet of the Amalgamated Company,

Calculation of Goodwill or Capital Reserve. Treatment of Intercompany debts, Intercompany Owings, Unrealised Profits, Discharge of Debentures, Discharge of debenture holders to get same amount of interest in spite of change in rate of interest, Issue of new shares to raise additional capital.

Module 5 Absorption 6 Hours

Absorption According to Ind AS 103. Forms of Purchase consideration – Deferred and Contingentconsideration. Accounting Entries in the Books of Selling or Vendor Company, Ledger accounts in the books of Selling company, Journal entries in the books of Buying Company and preparation of Balance Sheet of the buying company, Calculation of Goodwill or Capital Reserve, Treatment of – Intercompany debts, Intercompany Owings, Unrealised Profits, Discharge of debentures, Discharge of debenture holders to get same amount of interest

Module 6 | External Reconstruction

4 Hours

Reconstruction According to Ind AS 103. Meaning - Accounting in the books of Transferor Company. Accounting in the books of Transferee (based on relevant accounting standard); intercompany transactions (excluding inter-company share-holding).

Skill Development:

(These activities are only indicative, the Faculty member can innovate)

1	Prepare the Depreciation Schedule II of Companies Act with imaginary figures.
2	Prepare a report for a case of mergers or acquisitions. State the reasons why
	the firms decided to do so and the benefits derived by both companies.
3	Analyse any 5 cases of amalgamations/ absorption of Joint stock
	companies with a brief description of each case - name of purchasing &
	selling companies, nature of merger/absorption and purchase consideration.
4	Analyse the impact of covid on published financial statements by comparing
	the statements before and after the pandemic.
5	Identify from a published annual report the disclosures regarding acquisition,
	purchase consideration, nature of acquisition etc.
6	Present the depreciation table, asset register from an annual report.

Book for Reference:

1	Jain, S. P., & Narang, K. L. (2022). Advanced Accounts (12th ed.). Kalyani Publishers.
2	Maheshwari, S. N. (2021). Advanced Corporate Accounting (3rd ed.). Sultan Chand
	& Sons.
3	Sehgal, A., & Sehgal, D. (2022). Advanced Accounting: Corporate Accounting (1st

- ed.). Taxmann Publications.
 Singhal, S., & Shankaraiah, R. (2021). Manual of Financial Accounting and Reporting. CCH India.
- 5 Gupta, R. L., & Grewal, J. (2021). Advanced Accounts (4th ed.). Sultan Chand & Sons.
- 6 Shukla, M. C. (2022). Advanced Accounts (14th ed.). Sultan Chand & Sons.

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO1	PO12
											1	
CO1	M	Н	L	Н			L		L	M		M
CO2	M		Н	Н	L		L		L	M		M
CO3	M		Н	Н	L		L		L	M		M
CO4	M	Н	L	Н			L		L	M		M
CO5	M	Н	L	Н			L		L	M		M

Department of Commerce B. Com (Analytics)									
Semester		Course Code	Course Title	Course Duration	Course Type	Ho	Teaching Credits Hours Per week		
II		C5 24 MC 202 Business Statistics II 60 Hours Major 4 4					4		
Course Objectives	This course aims to equip students with a comprehensive anderstanding						iding the sing the is testing advanced tousiness ations of tionships		
Course Outo		es: n of the course, the stu	ıdents will l	oe able to:			T Levels	K Levels	
CO1	Illu det	strate the scope of termination of certain econtext of business	Probability of poss	y and its a sible outcor			Т3	К3	
CO2	De	termine the type of possible outcome of l	probability	distributio	n on the b	asis	T4	К3	
CO3	and	e the appropriate t d two means.	, -				Т3	К3	
CO4		tify the application pothesis in accordance			for testing	g of	T5	К3	
CO5	ana		mine the applicability and implication of correlation T4 K3 lysis in determining the relationship between two or more						
CO6	ana	alysis in determining	mine the applicability and implication of regression T4 K3 lysis in determining the cause and effect relationship veen two or more variables.						
Module 1		Introduction to Proba	bility				10 Ho	urs	
Importance and Definition of Probability - Random Variable- Sample Space - Favourable Events - Mutually Exclusive Events - Dependent and Independent Events - Addition, and Multiplication Theorem of Probability - Conditional Probability - (simple application illustrations).									
,	,								
Module 2		Probability Distributi		, -			15 Ho		
Binomial Distribution (meaning and importance) and its Probability Function - Poisson Distribution (meaning and importance) and probability function (simple application problems). Normal Distribution (meaning and importance) - Probability D e n s i t y Function of Normal Distribution - Standard Normal Distribution and its applications (simple									

13 Hours

application illustrations).

Module 3 Parametric Tests

Meaning and Importance of Hypothesis - Formation of Null and Alternative Hypothesis - Level of Significance - Level of Confidence - Type I and Type II Errors - Hypothesis Testing: t-test, z-test, test for Single Mean and Test for Difference Between Two Means and One way ANOVA.

Module 4 Non-Parametric Tests

7 Hours

Chi-square test - Importance - Conditions for Chi-square Test and applications problems - Degrees of Freedom - Contingency Table (simple application illustrations)

Module 5	Correlation Analysis	7 Hours
Meaning - Defin	nition - Uses of Correlation - Types of Correlation - Scatter D	iagram - Karl
Daguage is assurate	ation apoliticiont Conseguence's Double Convolution. Dual-able our	

Pearson's correlation coefficient - Spearman's Rank Correlation - Probable error.

Module 6 Regression Analysis 8 Hours

Regression - Meaning and utility of Regression Analysis - Regression lines - Multiple Linear Regression - Fitting multiple linear regression models (involving two regressions)-Prediction-Regression coefficients and Coefficient of Determination.

Skill Development:

(These activities are only indicative, the Faculty member can innovate)

1	Identify the type of probability distribution based on possible
	outcome of Business event.
2	Compute Correlation and Regression for identifying the useful
	drivers of a particular driven phenomenon using tools available in
	MS Excel.
3	Present business data using scatter plot for identifying
	direction and magnitude of the connect between two phenomena.
4	Understanding of occurrence of happening of an event and its
	distribution in different business scenarios.
5	Testing of hypothesised population parameter and present the
	testing results based on evidence thrown by sample statistic.
I .	

Book for Reference:

1	Croxton, F. E., Cowden, D. J., & Kelin, S. (2021). Applied General Statistics (2nd ed.). Prentice-Hall of India.
2	Black, K. (2022). Business Statistics (8th ed.). Wiley.
3	Gupta, S. C., & Kapoor, V. K. (2021). Fundamentals of Mathematical Statistics (11th ed.). Sultan Chand & Sons.
4	Veerarajan, T. (2020). Probability, Statistics and Random Processes (4th ed.). Tata McGraw-Hill Education.
5	Sharma, J. K. (2021). Business Statistics (4th ed.). Pearson Education India.
6	Bajpai, N. (2022). Business Statistics (3rd ed.). Pearson Education India.

CO/PO	PO1	PO2	PO3	PO 4	PO5	PO6	PO7	PO8	PO9	PO10	PO1 1	PO12
CO1	CO1	Н	L	L	M	L						Н
CO2	CO2	Н	L	L	M	L						Н
CO3	CO3	Н	L	L	M	L						Н
CO4	CO4	Н	L	L	M	L						Н

CO5	CO5	Н	L	L	M	L			Н
CO6	CO6	Н	L	L	M	L			Н

Duration Type Hours Per week			Σ	Department of B. Com (Ana						
Course Course Core Course	Seme	ster	Course Code	Course Title			Hou Pei	rs	Cred its	
Course Objectives: The objective of this course is to familiarise students with the fundamental concepts of economics and its applicability to busine environment. Course Outcomes: After completion of the course, the students will be able to: CO1 Explain the Meaning, scope of Business economics and role of Business economists in the context of Business decisions. CO2 Illustrate the range of approaches to the study of consumer behavior and its implications. CO3 Examine the law of demand and its implications on demand conditions and price elasticities for forecasting demand of product or service. CO4 Examine the law of supply and its implications on T4 Kingle of Describe the change of conditions of Business Cycles and its implications on Pricing and Output decisions. CO5 Compare and contrast the type of market structure and its implications on Pricing and Output decisions. CO6 Describe the change of conditions of Business Cycles and its implications on Monetary and Fiscal policy with business decision making. Module 1 Business Economics Meaning Definitions - Characteristics-Scope of Business Economics - Us and Objectives of Business Economics-goals of business - Micro & Mac Economics. Module 2 Consumer Behaviour Approaches to the Study of Consumer Behaviour-Cardinal Approach-Law of Equi-Marginal Utility - Ordinal Approach - Indifference Curve Analysis Properties - Consumer Surplus: Meaning - Analysis - Limitations Consumer Sovereignty - Limitations. Module 3 Theory of Demand and Analysis Demand -Demand Determinants-Law of Demand-Characteristics- Exceptions Elasticity of Demand - Price Elasticity of Demand - Price Elasticity Concepts of Income and Cross Elasticity of Demand - Price Elasticity of Demand Measurement by Total Outlay Method including mathematical problems- Survey.	II		C5 24 MC 203		60 Hours	,	4		4	
After completion of the course, the students will be able to: CO1 Explain the Meaning, scope of Business economics and role of Business economists in the context of Business decisions. CO2 Illustrate the range of approaches to the study of consumer behavior and its implications. CO3 Examine the law of demand and its implications on demand conditions and price elasticities for forecasting demand of product or service. CO4 Examine the law of supply and its implications on T4 Kinglications on Pricing and Output and its implications on Pricing and Output decisions. CO5 Compare and contrast the type of market structure and its implications on Pricing and Output decisions. CO6 Describe the change of conditions of Business Cycles and its implications on Monetary and Fiscal policy with business decision making. Module 1 Business Economics Meaning Definitions - Characteristics-Scope of Business Economics - Us and Objectives of Business Economics-goals of business - Micro & MacEconomics. Module 2 Consumer Behaviour Approaches to the Study of Consumer Behaviour-Cardinal Approach-Law of Equi-Marginal Utility - Ordinal Approach - Indifference Curve Analysis Properties - Consumer Surplus: Meaning - Analysis - Limitations Consumer Sovereignty - Limitations. Module 3 Theory of Demand and Analysis Demand-Demand Determinants-Law of Demand-Characteristics- Exceptions Elasticity of Demand - Price Elasticity of Demand and Elasticity of Demand - Price Elasticity of Demand and Elasticity of Demand - Price Elas		Course The objective of this course is to familiarise students fundamental concepts of economics and its applicability to								
role of Business economists in the context of Business decisions.				e students will	be able to:			Le vel		
behavior and its implications. CO3 Examine the law of demand and its implications on demand conditions and price elasticities for forecasting demand of product or service. CO4 Examine the law of supply and its implications on T4 King production function for determination of output. CO5 Compare and contrast the type of market structure and its implications on Pricing and Output decisions. CO6 Describe the change of conditions of Business Cycles and its implications on Monetary and Fiscal policy with business decision making. Module 1 Business Economics Meaning - Definitions - Characteristics-Scope of Business Economics - Us and Objectives of Business Economics-goals of business - Micro & Mac Economics. Module 2 Consumer Behaviour Approaches to the Study of Consumer Behaviour-Cardinal Approach-Law of Equi-Marginal Utility - Ordinal Approach - Indifference Curve Analysis Properties - Consumer Surplus: Meaning - Analysis - Limitations Consumer Sovereignty - Limitations. Module 3 Theory of Demand and Analysis Demand-Demand Determinants-Law of Demand-Characteristics- Exceptions Elasticity of Demand - Price Elasticity of Demand and Elasticity of Demand - Price Elasticity of Demand - Price Elasticity of Demand Measurement by Total Outlay Method including mathematical problems- Survey	CO1							T2	K2	
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Production function for determination of output. CO5	CO3	CO3 Examine the law of demand and its implications on demand conditions and price elasticities for forecasting demand of							K3	
implications on Pricing and Output decisions. CO6 Describe the change of conditions of Business Cycles and its implications on Monetary and Fiscal policy with business decision making. Module 1 Business Economics 4 Hours Meaning Definitions - Characteristics-Scope of Business Economics - Us and Objectives of Business Economics-goals of business - Micro & Mac Economics. Module 2 Consumer Behaviour 15 Hours Approaches to the Study of Consumer Behaviour-Cardinal Approach-Law of Equi- Marginal Utility - Ordinal Approach - Indifference Curve Analysis Properties - Consumer Surplus: Meaning - Analysis - Limitations Consumer Sovereignty - Limitations. Module 3 Theory of Demand and Analysis 15 Hours Demand-Demand Determinants-Law of Demand-Characteristics- Exceptions Elasticity of Demand - Price Elasticity - Types - Determining Factors-Change in Demand and Elasticity of Demand-Business Applications of Price Elasticity Concepts of Income and Cross Elasticity of Demand - Price Elasticity of D	CO4	Exa pro	mine the law o duction function fo	of supply a r determinat	nd its ind its indicates in the indicate in th	nplicatio ut.	ns on	T4	K3	
CO6 Describe the change of conditions of Business Cycles and its implications on Monetary and Fiscal policy with business decision making. Module 1 Business Economics 4 Hours	CO5						and its	T4	K3	
Module 1Business Economics4 HoursMeaning- Definitions - Characteristics-Scope of Business Economics - Us and Objectives of Business Economics-goals of business - Micro & Macre Economics.Module 2Consumer Behaviour15 HoursApproaches to the Study of Consumer Behaviour-Cardinal Approach-Law of Equi- Marginal Utility - Ordinal Approach - Indifference Curve Analysis Properties - Consumer Surplus: Meaning - Analysis - Limitations Consumer Sovereignty - Limitations.Module 3Theory of Demand and Analysis15 HoursDemand-Demand Determinants-Law of Demand-Characteristics- Exceptions Elasticity of Demand - Price Elasticity - Types - Determining Factors-Change in Demand and Elasticity of Demand-Business Applications of Price Elasticity Concepts of Income and Cross Elasticity of Demand - Price Elasticity of Demand - Pr	CO6	Des its i	scribe the change mplications on Mo	of condition	s of Busin	ess Cycl			К3	
and Objectives of Business Economics-goals of business - Micro & Macre Economics. Module 2 Consumer Behaviour 15 Hours	Modu	<u> </u>						4 H	ours	
Approaches to the Study of Consumer Behaviour-Cardinal Approach-Law of Equi- Marginal Utility – Ordinal Approach – Indifference Curve Analysis Properties – Consumer Surplus: Meaning – Analysis – Limitations Consumer Sovereignty – Limitations. Module 3 Theory of Demand and Analysis 15 Hours	and C	Objec	ctives of Business	racteristics–S Economics–g	cope of Bugoals of bu	ısiness E ısiness -	conom Micro	ics – & N	Uses Macro	
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Demand-Demand Determinants-Law of Demand-Characteristics- Exceptions Elasticity of Demand - Price Elasticity - Types - Determining Factors-Change is Demand and Elasticity of Demand- Business Applications of Price Elasticity Concepts of Income and Cross Elasticity of Demand - Price Elasticity of Demand Measurement by Total Outlay Method including mathematical problems- Surve	Equi- Prope Consu	Mar rties ımer	ginal Utility – Ord – Consumer Su Sovereignty – Lim	inal Approa rplus: Mear iitations.	ch – Indiff	erence C	Curve A	analy nitat	vsis – ions-	
Elasticity of Demand – Price Elasticity – Types – Determining Factors–Change in Demand and Elasticity of Demand–Business Applications of Price Elasticity Concepts of Income and Cross Elasticity of Demand – Price Elasticity of Demand Measurement by Total Outlay Method including mathematical problems- Surve					1 0					
Demand forecasting methods for a new product including mathematical problems.	Elastic Demai Conce Measu of buy Demai	city ond a pts ourement's rer's and a second	of Demand – Price El and Elasticity of D of Income and Cross ent by Total Outlay intention – Collectiv	asticity – Typemand– Busi Elasticity of I Method inclu ve opinion – T	pes – Deter ness Applion Demand – I ding matho Trend proje	mining F cations of Price Elas ematical p ction –Eco	actors— f Price I sticity o problem onomic	Chan Elast f Der ns- Su India	nge in icity-mand urvey cator.	

Module 4	Productio	n Func	tion							8	Hours
Law of S	Supply-M	eaning	g–De	termi	nants	of S	Suppl	y. Pr	oducti	on Fu	nction:
Equilibriu	m Though	n Isoqu	ants	and Is	ocosts	s –Typ	es of (Cost-	relatior	nship b	etweer
different ty	pes of cos	sts and	brea	keve	n anal	ysis.					
Module 5	Market St	ructure)							12	Hours
Perfect Competition–Features–Price and Output Determination–Influence of Time Element on Price and Output–Monopoly– Features– Price and Output Determination–Price Discrimination– Price Output Determination Under Discriminating Monopoly. Monopolistic Competition–Features–Price and Output Determination in Short Run and in Industry – Features of Duopoly and											
Oligopoly							J			•	J
Module 6	Business	Cycles								6	Hours
Business (Cvcles-Pha	ases o	f Bus	siness	cvcle	-Effe	cts of	Busi	ness C	vcle-	
Multiplier	-				-					-	trol the
Business c				-	-		-				
Skill Devel	•	J		I	<u>J</u>						-
(These activi		indicati	ive, the	? Facul	ty mem	ber can	innov	ate)			
1	Draft a di	agramı	matic	repre	sentat	ion of	inflati	on rate	es for sp	pecific _l	product
	using sec										
2	Analyse and report the case studies that will have impact on business decision-making in each chapter.										
3	Conduct	a surv	ey re	eport	on the	dem	and fo	orecas	sting fo	r a pro	oduct.
4	Choose		duct	and	app	ly pi	ice e	elastic	ity in	real	marke
5	Prepare o	detaile	d cha	arts o	n Con	sume	Surp	lus.			
6	Conduct pattern o							cons	umptio	on and	savin
Book for Re	_										
1	Mithani, D House.	D. M. (20	021). I	Busine	ss Eco	nomics	s (2nd e	ed.). Hi	imalaya	Publishi	ng
2	Reddy, P. (2nd ed.). Penram In					021). E	ssentia	als of	Busines	s Econo	omics
3	Agarwal, S					nics (3)	rd ed.).	Taxma	ınn Puhi	lications	
4	Varshney,										
4	Sultan Chand & S		U 1V1U	icsiwi	ли, Ν.	(2021)	, iviail	ugeria	LCOIL	mues (2	-1111 CU.)
5 Seth, M. L. (2021). Textbook of Economic Theory (2nd ed.). Chand S Publications.											
6 Reddy, G. S., & Reddy, M. S. (2021). Business Economics (2nd ed.). Vikas Publishing											
Mapping of	House. f CO and P	О									
CO/PO I	PO1 PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	H H	M	M	L	L					L	
								1	İ		<u> </u>

CO2	Н	Н	M	M	L	L			L	
CO3	Н	L	M	M	L	Н			L	
CO4	Н	L	M	M	L	L				
CO5	Н	Н	M	M	L	L			L	
CO6	Н	Н		M	L	L			L	

				nt of Commo				
Semes	ster	Course Code	Course Title	Course Duration	Course Type	Teachin g Hours Per week	Cre	dits
II		C5 24 MC 204	Business Law	60 Hours	Major Core	4	4	Į.
Course Object		The course is mercantile and	s designed kee _l d global law and	ping in vied their redre	ew the know essal mechani	rledge re ism.	quire	d for
		tcomes: letion of the cou	rse, the students	will be able	to:		T Lev els	K Lev els
CO1	-	plain the scorious Business.	pe of Business transactions.	Law and	d its implica	ation on	T2	K2
CO2		_	al framework oing a valid cont		Contract Act	and its	Т3	K3
CO3								
CO4	and its essentials for obtaining Intellectual Property Rights.							K3
CO5								K3
CO6	and im	d related offe plication on	visions of Cyber ences and the formation, con ation at global le	Global le stitution	gal system	and its	T5	K3
Modu	le 1	Jurisprudence	and Scope				4 H	lours
in Cou	ırts.	Meaning and S	assification of la Scope of busines	w – Hieraro s law – Sou	chy of Courts arces of India	 Brief of n busines 	s law.	•
		Indian Contrac						lours
Capac	ity (of parties - Fro	ontract – Essent ee consent– Leg contract – Remed	ality of ob	ject and cons	ideration		
Modu	odule 3 Sale of Goods Act 1930							
Perfor	aw of Sale of Goods - Conditions and Warranties - Transfer of owner erformance of contracts - Remedial measures.							
Modu	le 4	Intellectual Pr	roperty Legislatio	ons			8 H	lours
	_	_	llectual Propertion					_
	_	_	ound - Objective					
			dure for grant of				O rul	es as
			ts to patentee – tection Act [COP	_	in – Keineules	•	8 H	lours

Background - Definition - Consumer, Consumer Dispute, Complaint, Deficiency, Service - Consumer Protection Council - Consumer Redressal Agencies - District Forum - State Commission and National Commission. Key highlights of the Consumer Protection Act, 2019 - Impact of unethical practices in selling and consumption like adulteration, hoarding, black marketing, on the achievement of SDG-3 (good health and well-being) and SDG-12 (Responsible consumption and production)

Module 6 | Cyber Laws 1999 and Global Law

10 Hours

Information Technology Act, 2000 - Objectives - Definitions and salient features - Provisions pertaining to piracy and related offences and penalties.

Essential elements of legal systems- Business, political and International legal regulation and conflicts of laws Formation and constitution of business organizations -Agency law, Partnerships, corporations and legal personality, insolvency law and administration. Governance and ethical issues relating to business - Corporate fraudulent behaviour.

Behavioral ethics and justice: - Relationship between justice perceptions in employees and comparison of ethical and unethical behaviors like violation of conscience, failure to honor commitments, unlawful conduct, disregard of company law.

company	
Skill Deve	
	vities are only indicative, the Faculty member can innovate)
1	Analyse and prepare a report on the importance of Bankruptcy law.
2	Draft a 'rent agreement' incorporating all the essential features of a valid agreement
3	Draft an agreement to repay a loan borrowed from a bank on installment basis.
4	Analyse and prepare a report on Case laws 'involving points of law of contracts'
5	Draft a complaint against 'unfair trade practice' adopted by a businessman, to the consumer forum.
6	Prepare a report on the latest cases of both High Court and Supreme Court on Environmental issues with both facts and judgements [at least 2 cases].
7	Analyse and discuss examples of violation of Cyber Laws
8	Make a visit to the nearby Civil court, and present your observations of a case attended to the class
9	Develop Mock Court scenario in the class to present a latest popular case from the consumer court
10	Prepare and discuss the role and importance of Limited Liability Partnership in class.
Book for R	
1	Singh, A. (2022). Business Law (6th ed.). Pearson India.
2	Tuli, P. (2021). Business law: Text and Cases (2nd ed.). McGraw-Hill Education.

Ashwathappa, K. (2021). Business Law (3rd ed.). Himalaya Publishing House.

4	Sen, S. (2020). Business law: Text and Cases (3rd ed.). Cengage Learning India.
5	Kapoor, N. D. (2021). Business Law (4th ed.). Sultan Chand & Sons.
6	Maheshwari, S. K. (2020). Business Law (2nd ed.). Vikas Publishing House.

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	Н	Н	L	M	M			L				
CO2	Н	Н	L	M	M			L		L		
CO3	Н	Н	L	M	M			L		L		
CO4	Н	L		M	Н			L		L		
CO5	Н	L		M	Н			M		L		
CO6	Н	L	L	M	Н			M		L		

		Department o B. Com (A		e				
Semest	er Course Code	Course Title	Course Duration	Cours e Type	Teach Hou Per w	rs	Cred its	
II	UG 24 CC 201	Constitutional Values II	30 Hours	Compulsory Course	2		2	
Course Objectiv	executive and provisions, del	ns to provide an p High Court. St bates, and contentitution on govern	udents wi nporary is	ll explore ke sues to critic	ey con	stitut	ional	
Course Outcomes: After completion of the course, the students will be able to:								
CO1	Analyze the r federalism in stre		ralization ian politica		erative	T4	K2	
CO2 Discuss the effectiveness of constitutional provisions and affirmative actions in promoting social welfare, equality, and protection of vulnerable groups.								
CO3	Demonstrate the p India.	powers and functi	ons of Elec	tion Commis	sion in	T2	K2	
Module	e 1 State Legislatur	re and State Execut	tive			10]	Hours	
	ns - State Executive and functions - C ges							
Module	e 2 Democratic De	centralisation				10]	Hours	
Democratic Decentralization; Local Self-Government, Urban Governments - 73rd and 74th Constitutional amendments, contemporary challenges - Constitutional Amendment Procedure in India; Simple, Special and Special with Concurrence of States - Basic Structure of Indian Constitution with special reference to Keshavananda Bharathi Case								
Module 3 Election Commission of India 10 Hours								
Flection	Commission of Ir	ndia; Composition	n, Powers a	and Function	s - Pul	olic S		
Commis Reserva within) I	ssions; UPSC and tion for SC/ST (23 t's Relevance. velopment:						ction	
Commis Reserva within) l Skill De	tion for SC/ST (20 t's Relevance. velopment: tivities are only indicate.	3%), OBC (27%), 1	EWC (10%)	and Women	(33%	Reser	oction, vation	

3	Study the Keshava Nanda case and make a report and also present it in the class with your observations.
Book for Ro	eference:
1	Ambedkar, B. R. (1948), The Constitution of India, Government of India.
2	Basu, D. D. (2018). Introduction to the Constitution of India, LexisNexis.
3	Austin, G. (1999). The Indian Constitution: Cornerstone of a Nation, Oxford University Press.
4	Sharma, B. K. (2021). Introduction to the Constitution of India. Prentice Hall.
5	Khosla, M. (2012). The Indian Constitution, Oxford University Press

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	Н	L	Н	L			M			L	M	
CO2	Н		Н	L			M	L		L	M	
CO3	Н	L	Н	L			M			L	M	