

K.M.G. COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)

Approved by the Government of Tamil Nadu Permanently Affiliated to Thiruvalluvar University, Vellore Recognized under Section 2(f) and 12(B) of the UGC Act 1956 Accredited by NAAC (2nd Cycle) with (CGPA of 3.24/4) 'A' Grade

P.G. DEPARTMENT OF COMMERCE

(COMPUTER APPLICATIONS)

M.Com – COMPUTER APPLICATIONS SYLLABUS

(CHOICE BASED CREDIT SYSTEM)

Under

LEARNING OUTCOMES-BASED CURRICULUM

FRAMEWORK (LOCF)

(Effective for the Batch of Students Admitted from 2024-2025)

ABOUT THE COLLEGE

The College was founded in the new millennium 2000 by the vision of late Shri.K.M.Govindarajan fondly known as ayah, with a mission to offer higher education in the fields of Arts and Science to the needy and the poor middle class students of this area and make them fully employable and economically self reliant. With a humble beginning of launching an elementary school named Thiruvalluvar Elementary School in the year 1952, ayah groomed it into a Higher Secondary School and later into a college. Education was his soul & breath. The college has grown into a full fledged educational hub offering 12 under graduate programmes, 8 post graduate programmes, 5 M.Phil research programmes and 4 Ph.D programmes. The college has been accredited with A grade by NAAC in 2nd cycle and recognized under section 2(f) & 12(B) of the UGC act 1956. The College is permanently affiliated to Thiruvalluvar University. The College is an associate member of ICT Academy and registered member of NPTEL and Spoken Tutorials of IIT Bombay. The college is also a member of INFLIBNET and NDL.

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VISION OF THE COLLEGE

Empower young men and women by educating them in the pursuit of excellence, character building and responsible citizen.

MISSION OF THE COLLEGE

Offer higher education in the fields of Arts, Science & Management to the needy and make them fully self-dependent.

QUALITY POLICY OF THE COLLEGE

KMG Students achieve the best learning results and personal growth with modern education that equip them for working life and a changing society to become deserving citizens.

S. No	Courses	Establishment year
1	B.Com (Computer Applications)	2009
2	M.Com – (Computer Applications)	2017

VISION OF THE DEPARTMENT

To impart holistic and quality education in the field of Commerce with Computer Applications and develop a broad knowledge base in core managerial and computer skill with professional excellence and experience.

MISSION OF THE DEPARTMENT

- To provide in-depth knowledge in the course.
- To train and develop the students with the employable skills required for Commerce and IT sectors.
- To import the ability to use the expertise in computing to meet the ever growing demands of the society.
- To provide technical education to the students through well-equipped Labs.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

- **1. Professional Excellence:** Graduates will demonstrate competency and excellence in their chosen fields of study, applying theoretical knowledge to practical situations effectively.
- **2. Character Development:** Graduates will exhibit strong moral and ethical character, upholding values of integrity, honesty, and respect for others in both personal and professional endeavors.
- **3. Leadership and Citizenship:** Graduates will emerge as responsible leaders and active citizens, contributing positively to their communities and society at large through their actions and initiatives.
- **4. Continuous Learning:** Graduates will engage in lifelong learning and professional development activities, adapting to evolving technologies, methodologies, and societal needs.
- **5. Self-Dependency and Entrepreneurship:** Graduates will possess the skills and mindset necessary to be self-reliant and entrepreneurial, capable of creating opportunities for themselves and others through innovation and initiative.
- **6. Effective Communication and Collaboration:** Graduates will demonstrate proficiency in communication skills, both verbal and written, and exhibit the ability to collaborate effectively with diverse teams and stakeholders.
- **7. Global Perspective:** Graduates will have a broad understanding of global issues and perspectives, demonstrating cultural sensitivity and adaptability in multicultural environments.

PROGRAM OUTCOMES (POs)

On successful completion of the M.Com CA programme, the students will be able to:

POs	Graduate Attributes	Statements
PO1	Problem Solving skill	Apply knowledge of Management theories and Human Resource Practices to solve business problems through research in Global Context.
PO2	Decision Making Skills	Foster analytical and critical thinking abilities for data based decision-making.
PO3	Ethical Value	Ability to incorporate quality, ethical and legal value – based perspectives to all organizational activities.
PO4	Communication Skill	Ability to develop communication, managerial and interpersonal skills.
PO5	Individual and Team Leadership skill	Capability to lead themselves and the team to achieve organizational goals and contribute significantly to society.
PO6	Employability Skill	Inculcate contemporary business practices to enhance employability skills in the competitive environment.
PO7	Entrepreneurial Skill	.Equip with skills and competencies to become an entrepreneur.
PO8	Contribution to Society	Succeed in career endeavors and contribute significantly to society.
PO 9	Multicultural competence	Possess knowledge of the values and beliefs of multiple cultures and a global perspective.
PO10	Moral and ethical awareness /reasoning	Ability to embrace moral/ethical values in conducting one's life.

PROGRAM SPECIFIC OUTCOMES (PSOs)

On successful completion of the B.Com CA, the students will be able to:

PSOs	Statements
PSO1	To prepare the students who will demonstrate respectful engagement with others' ideas, behaviors, beliefs and apply diverse frames of reference to decisions and actions.
PSO2	To create effective entrepreneurs by enhancing their critical thinking, problem solving, decision making and leadership skill that will facilitate startups and high potential organizations.
PSO3	To produce employable in IT and IT enabled sectors with ethical and innovative professionalism to sustain in the dynamic business world.

Correlation Rubrics:

High	Moderate	Low	No Correlation
3	2	1	-

Mapping of PSOs with POs:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
PSO1	3	3	3	3	3	3	3	3	2	3
PSO2	3	3	3	3	3	3	3	3	3	3
PSO3	3	3	3	3	3	3	3	3	3	3

K.M.G. COLLEGE OF ARTS AND SCIENCE

(AUTONOMOUS)

Subject and Credit System- M.Com (Computer Applications) (Effective for the Batch of Students Admitted from 2024-2025)

Semester	Part	Category	Course Code	Course Title	Ins.Hrs/	Credit	Maximum Marks						
Semester	Tart	Category	Course Coue	Course True	Week	Credit	Internal	External	Total				
		Core-I	APCCP11	Business Finance	07	05	25	75	100				
		Core-II	APCCP12	Digital Marketing	07	05	25	75	100				
		Core-III	APCCP13	Banking and Insurance	06	04	25	75	100				
3R - I	Ι -	Elective – I	APECP14A	Introduction to Industry 4.0	05	03	25	75	100				
SEMESTER	Part	(Choose any One)	APECP14B	Big Data Analytics	03	03	23	13	100				
SEM		Elective – II (Choose any	APECP15A	Enterprise Resource Planning	05	03	25	75	100				
		One)	APECP15B	Database Management System	03	03	23	13	100				
				Semester Total	30	20							
	1	Γ	1		Т	Г	Т						
		Core-IV	APCCP21	Strategic Cost Management	06	05	25	75	100				
		Core-V	APCCP22	Corporate Accounting	06	05	25	75	100				
		Core-VI	APCCP23	Setting up of business entities	06	04	25	75	100				
		Elective-III	APECP24A	Data Mining and Data Interpretation	02	0.2	25		100				
3R - II	Part - I		Part -]	Part -]	Part -]	(Choose any One)	APECP24B	Technology in Banking	03	03	25	75	100
SEMESTER		Elective-IV	APECP25A	Financial Analytics (Practical)	02	0.2	25	75	100				
SEM		(Choose any One)	APECP25B	Management Information System	03	03	25	75	100				
		SEC - I	APSCP26	Advertising and Media	04	02	25	75	100				
	Part -	Compulsory	APHR20	Human Rights	02	02	25	75	100				
	II	Compulsory	APMOOC20	MOOC COURSE	-	02	-	100	100				
				Semester Total	30	26							

Semester	Part	Category	Course Code	Course Title	Ins.Hrs/	Credit	Maximum Marks		ks	
Semester	rart	Category	Course Coue	Course Title	Week	Credit	Internal	External	Total	
	Ī	Core-VII							I	
		Cole-VII	APCCP31	Taxation	6	5	25	75	100	
		Core-VIII	APCCP32	Research Methodology	6	5	25	75	100	
Ħ		Core-IX	APCCP33	Computer Application in Business	6	5	25	75	100	
ER -	Part - I	Core-X	APCCP34	International Business	6	4	25	75	100	
SEMESTER - III	Pa	Elective-V	APECP35A	Applied Data Analytics and Machine Learning	03	02	25	75	100	
SE		(Choose any One)	APECP35B	Python R Programming	03	03	23			
		SEC - II	APSCP36	Stock Market Operations	03	02	25	75	100	
		Compulsory	APICP37	Internship / industrial Activity (Credits)	-	2	100	-	100	
			•	Semester Total	30	26				
		Core-XI	APCCP41	Corporate and Economic Laws	6	5	25	75	100	
		Core-XII	APCCP42	Human Resource Analytics	6	5	25	75	100	
		Project with Viva	APPCP43	Project with viva	10	7	25	75	100	
2	I-	Elective VI	APECP44A	VI A – Cyber and Data Security	4	3	25	75	100	
1	Part -	One)	APECP44B	VI B – E-Commerce			23	75	100	
SEMESTER			SEC – III / Professional Competency Skill	APSCP45	Consumer Behaviour	4	2	25	75	100
	Part - II	Compulsory	APEA40	Extension Activity	-	1	100	-	100	
			•	Semester Total	30	23				

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Subject and Credit System- M.Com (Computer Applications) (Effective for the Batch of Students Admitted from 2024-2025)

Consolidated Semester wise and Component wise Credit distribution

Parts	Semester-I	Semester-II	Semester-III	Semester-IV	Total Credits
Part-I	20	22	26	22	90
Part-II	-	4	-	1	5
Total	20	26	26	23	95

*Part I and Part II components will be separately taken into account for CGPA calculation and classification for the post graduate programme and has to be completed during the duration of the programme as per the norms, to be eligible for obtaining the PG degree.

Title of the Course	Business Finance	Hours/Week	07
Course Code	APCCP11	Credits	05
Category	Core I	Year & Semester	I & I
Prerequisites	UG Commerce (Computer Applications)	Regulation	2024

- > To outline the fundamental concepts in finance
- > To estimate and evaluate risk in investment proposals
- > To evaluate leasing as a source of finance and determine the sources of startup financing
- > To examine cash and inventory management techniques
- > To appraise capital budgeting techniques for MNCs

UNITS	Contents	COs	Cognitive
ONTS	Contents	COS	Levels
	Introduction to Business Finance and Time vale of money		
	Business Finance: Meaning, Objectives, Scope -Time Value of		
ĿI	money: Meaning, Causes - Compounding - Discounting - Sinking	CO1	V1 V2 V2
UNIT-I	Fund Deposit Factor – Capital Recovery Factor – Multiple		K1,K2,K3
	Compounding- Effective rate of interest - Doubling period (Rule of		
	69 and Rule of 72) – Practical problems.		
UNIT-II	Risk Management Risk and Uncertainty: Meaning – Sources of Risk – Measures of Risk – Measurement of Return – General pattern of Risk and Return – Criteria for evaluating proposals to minimise Risk (Single Asset and Portfolio) – Methods of Risk Management–Hedging currency risk.	CO2	K1,K2,K3, K5
UNIT-III	Startup Financing and Leasing Startup Financing: Meaning, Sources, Modes (Bootstrapping, Angel investors, Venture capital fund) - Leasing: Meaning – Types of Lease Agreements – Advantages and Disadvantages of Leasing – Financial evaluation from the perspective of Lessor and Lessee.	CO3	K1,K2

	Cash, Receivable and Inventory Management		
	Cash Management: Meaning, Objectives and Importance - Cash		
	Cycle – Minimum Operating Cash – Safety level of cash – Optimum		
IV	cash balance - Receivable Management: Meaning - Credit policy -	CO4	K1,K2
UNIT-IV	Controlling receivables: Debt collection period, Ageing schedule,		
Ω	Factoring – Evaluating investment in accounts receivable – Inventory		
	Management: Meaning and Objectives - EOQ with price breaks -		
	ABC Analysis.		
	Multi National Capital Budgeting		
	Multi National Capital Budgeting: Meaning, Steps involved,		
>	Complexities, Factors to be considered- International sources of		K1,K2,K3,
UNIT-V	finance - Techniques to evaluate multi-national capital expenditure	CO5	K4,K5
5	proposals: Discounted Pay Back Period, NPV, Profitability Index,		
	Net Profitability Index and Internal Rate of Return – Capital rationing		
	-Techniques of Risk analysis in Capital Budgeting.		

THEORY – 60%, PROBLEMS – 40%

Recommended Text Books

- 1. Maheshwari S.N., (2019), "Financial Management Principles and Practices", 15th Edition, Sultan Chand &Sons, New Delhi.
- 2. Khan M.Y &Jain P.K, (2011), "Financial Management: Text, Problems and Cases", 8th Edition, McGraw Hill Education, New Delhi.
- 3. Prasanna Chandra, (2019), "Financial Management, Theory and Practice", 10th Edition, McGraw Hill Education, New Delhi.
- 4. Apte P.G, (2020), "International Financial Management" 8th Edition, Tata McGraw Hill, New Delhi.

Reference Books

- 1. Pandey I. M., (2021), "Financial Management", 12thEdition, Pearson India Education Services Pvt. Ltd, Noida.
- 2. Kulkarni P. V. & Satyaprasad B. G., (2015), "Financial Management", 14th Edition, Himalaya Publishing House Pvt Ltd, Mumbai.
- 3. RustagiR. P., (2022), "Financial Management, Theory, Concept, Problems", 6 th Edition, Taxmann Publications Pvt. Ltd, New Delhi.
- 4. Arokiamary Geetha Rufus, Ramani N. & Others, (2017), "Financial Management", 1 st Edition, Himalaya Publishing House Pvt Ltd, Mumbai.

Website and e-learning source

- 1. https://resource.cdn.icai.org/66674bos53808-cp8.pdf
- 2. https://resource.cdn.icai.org/66677bos53808-cp10u2.pdf
- 3. https://resource.cdn.icai.org/66592bos53773-cp4u5.pdf
- 4. https://resource.cdn.icai.org/65599bos52876parta-cp16.pdf

Course Learning Outcomes (for Mapping with POs and PSOs)

COs	CO Description	Cognitive Level
CO1	Explain important finance concepts	K1,K2,K3
CO2	Estimate risk and determine its impact on return.	K1,K2,K3,K5
CO3	Explore leasing and other sources of finance for startups	K1,K2
CO4	Summarize cash, receivable and inventory management techniques	K1,K2
CO5	Evaluate techniques of long term investment decision incorporating risk factor.	K1,K2,K3,K4,K5

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	3	2	3	2	3	2	3	2	3	2	2	2
CO2	3	3	3	3	2	3	3	2	2	3	3	3	3
CO3	3	3	3	3	3	3	3	3	2	3	3	3	3
CO4	3	3	3	2	3	3	2	2	2	3	3	3	3
CO5	3	3	3	3	2	3	3	2	2	3	3	3	3

Title of the Course	Digital Marketing	Hours/Week	07
Course Code	APCCP12	Credits	05
Category	Core II	Year & Semester	I & I
Prerequisites	UG Commerce (Computer Applications)	Regulation	2024

- > To assess the evolution of digital marketing
- > To appraise the dimensions of online marketing mix
- > To infer the techniques of digital marketing
- > To analyse online consumer behavior
- > To interpret data from social media and to evaluate game based marketing

UNITS	Contents	COs	Cognitiv
			e Levels
UNITI	Introduction to Digital Marketing Digital Marketing – Transition from traditional to digital marketing – Rise of internet – Growth of e-concepts – Growth of e-business to advanced e-commerce – Emergence of digital marketing as a tool – Digital marketing channels – Digital marketing applications, benefits and limitations – Factors for success of digital marketing – Emerging opportunities for digital marketing professionals.	CO1	K1,K2
UNIT-II	Online marketing mix – E-product – E-promotion – E-price – E-place – Consumer segmentation – Targeting – Positioning – Consumers and online shopping issues – Website characteristics affecting online purchase decisions – Distribution and implication on online marketing mix decisions.	CO2	K1,K2,K 3

	Digital media channels		
	Digital media channels – Search engine marketing – ePR – Affiliate		
Ħ	marketing - Interactive display advertising - Opt-in-email marketing		K1,K2,K
UNIT-III	and mobile text messaging, Invasive marketing - Campaign	CO3	3
S	management using - Facebook, Twitter, Corporate Blogs -		3
	Advantages and disadvantages of digital media channels – Metaverse		
	marketing.		
	Online consumer behavior		
	Online consumer behavior - Cultural implications of key website		K1,K2,K
UNIT-IV	characteristics - Dynamics of online consumer visit - Models of	CO4	4
	website visits - Web and consumer decision making process - Data		4
נ	base marketing - Electronic consumer relationship management -		
	Goals – Process – Benefits – Role – Next generation CRM.		
	Analytics and Gamification		
	Digital Analytics – Concept – Measurement framework –		
	Demystifying web data - Owned social metrics - Measurement		
	metrics for Facebook, Twitter, YouTube, Slide Share, Pinterest,		
>	Instagram, Snapchat and LinkedIn - Earned social media metrics -		K1,K2,K
UNIT-V	Digital brand analysis - Meaning - Benefits - Components - Brand	CO5	3
S	share dimensions - Brand audience dimensions - Market influence		3
	analytics - Consumer generated media and opinion leaders - Peer		
	review - Word of mouth - Influence analytics - Mining consumer		
	generated media - Gamification and game based marketing -		
	Benefits – Consumer motivation for playing online games.		

- 1.Puneet Singh Bhatia, (2019) "Fundamentals of Digital Marketing", 2ndEdition,Pearson Education Pvt Ltd, Noida.
- 2. Dave Chaffey, Fiona Ellis-Chadwick,(2019) "Digital Marketing", Pearson Education Pvt Ltd, Noida.
- 3. Chuck Hemann& Ken Burbary, (2019) "Digital Marketing Analytics", Pearson Education Pvt Ltd, Noida.
- 4. Seema Gupta, (2022) "Digital Marketing" 3rdEdition, McGraw Hill Publications Noida.
- 5. Kailash Chandra Upadhyay,(2021) "Digital Marketing: Complete Digital Marketing Tutorial", Notion Press, Chennai.
- 6. Michael Branding, (2021) "Digital Marketing", Empire Publications India Private Ltd, New Delhi.

Reference Books

- 1. Vandana Ahuja, (2016) "Digital Marketing", Oxford University Press. London.
- 2. Ryan Deiss& Russ Henneberry, (2017) "Digital Marketing", John Wiley and Sons Inc. Hoboken.
- 3. Alan Charlesworth, (2014), "Digital Marketing A Practical Approach", Routledge, London.
- 4. Simon Kingsnorth, Digital Marketing Strategy,(2022) "An Integrated approach to Online Marketing", Kogan Page Ltd. United Kingdom.
- 5. MaityMoutusy,(2022) "Digital Marketing" 2ndEdition, Oxford University Press, London.

Website and e-learning source

https://www.digitalmarketer.com/digital-marketing/assets/pdf/ultimate-guide-to-digital-marketing.pdf

- 2. https://uwaterloo.ca/centre-for-teaching-excellence/teaching-resources/teaching-tips/educational-technologies/all/gamification-and-game-based-learning
- 3. https://journals.ala.org/index.php/ltr/article/download/6143/7938

Course Learning Outcomes (for Mapping with POs and PSOs)

COs	CO Description	Cognitive Level
CO1	Explain the dynamics of digital marketing	K1,K2
CO2	Examine online marketing mix	K1,K2,K3
CO3	Compare digital media channels	K1,K2,K3
CO4	Interpret online consumer behavior	K1,K2,K4
CO5	Analyse social media data.	K1,K2,K3

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	2	3	3	3	2	2	2	3	2	3	2	2	2
CO ₂	3	3	3	3	3	3	3	3	2	3	3	3	3
CO3	3	3	3	3	3	3	3	3	2	3	3	3	3
CO4	2	2	3	3	2	3	3	3	2	3	3	3	3
CO5	3	3	3	3	3	3	3	3	2	3	3	3	3

Title of the Course	Banking and Insurance	Hours/Week	06
Course Code	APCCP13	Credits	04
Category	Core III	Year & Semester	I & I
Prerequisites	UG Commerce (Computer Applications)	Regulation	2024

- > To understand the evolution of new era banking
- > To explore the digital banking techniques
- > To analyse the role of insurance sector
- > To evaluate the mechanism of customer service in insurance and the relevant Regulations
- > To analyse risk and its impact in banking and insurance industry

UNITS	Contents	COs	Cognitive
CIVIIS	Contents	COs	Levels
UNIT-I	Introduction to Banking Banking: Brief History of Banking - Rapid Transformation in Banking: Customer Shift - Fintech Overview - Fintech Outlook - The Financial Disruptors - Digital Financial Revolution - New Era of Banking. Digital Banking - Electronic Payment Systems - Electronic Fund Transfer	CO1	K1,K2,K3
	System – Electronic Credit and Debit Clearing – NEFT – RTGS – VSAT–SFMS–SWIFT.		
UNIT-II	Contemporary Developments in Banking Distributed Ledger Technology – Blockchain: Meaning - Structure of BlockChain - Types of Block Chain - Differences between DLT and Blockchain - Benefits of Blockchain and DLT - Unlocking the potential of Blockchain – Crypto currencies, Central Bank Digital Currency (CBDC) - Role of DLT in financial services - AI in Banking: Future of AI in Banking - Applications of AI in Banking - Importance of AI in banking - Banking reimagined with AI. Cloud banking - Meaning - Benefits in switching to Cloud Banking.	CO2	K1,K2,K3

	Indian Insurance Market		
	History of Insurance in India – Definition and Functions of Insurance –		
	Insurance Contract – Indian Insurance Market – Reforms in Insurance		
UNIT-III	Sector – Insurance Organisation – Insurance organisation structure.	CO3	K1,K2,K3
	Insurance Intermediaries: Insurance Broker – Insurance Agent -		
	Surveyors and Loss Assessors - Third Party Administrators (Health		
	Services) – Procedures - Code of Conduct.		
	Customer Services in Insurance		
	Customer Service in Insurance – Quality of Service - Role of Insurance		
>	Agents in Customer Service-Agent's Communication and Customer		W1 W2 W2
UNIT-IV	Service –Ethical Behaviour in Insurance – Grievance Redressal System	CO4	K1,K2,K3
N S	in Insurance Sector -Integrated Grievance Management System-		
	Insurance Ombudsman - Insurance Regulatory and Development		
	Authority of India Act (IRDA) – Regulations and Guidelines.		
	Risk Management		
L-V	Risk Management and Control in banking and insurance industries -	CO5	K1,K2
UNIT-V	Methods of Risk Management – Risk Management by Individuals and	COS	K1,K2
	Corporations – Tools for Controlling Risk.		

- 1. Indian Institute of Banking and Finance (2021), "Principles & Practices of Banking", 5th Edition, Macmillan Education India Pvt. Ltd, Noida, Uttar Pradesh.
- 2. Mishra M N & Mishra S B, (2016), "Insurance Principles and Practice", 22nd Edition, S.Chand and Company Ltd, Noida, Uttar Pradesh.
- 3. Emmett, Vaughan, Therese Vaughan M., (2013), "Fundamentals of Risk and Insurance", 11th Edition, Wiley & Sons, New Jersey, USA.
- 4. Theo Lynn, John G. Mooney, Pierangelo Rosati, Mark Cummins (2018), Disrupting Finance: FinTech and Strategy in the 21st Century (Palgrave Studies in Digital Business & Enabling Technologies), Macmillan Publishers, NewYork (US)

Reference Books

- 1. Sundharam KPM & Varshney P. N., (2020), "Banking Theory, Law and Practice", 20th Edition, Sultan Chand & Sons, New Delhi.
- 2. Gordon & Natarajan, (2022), "Banking Theory, Law and Practice", 9th Edition, Himalaya Publishing House Pvt Ltd, Mumbai.
- 3. Gupta P. K. (2021), "Insurance and Risk Management" 6th Edition, Himalaya Publishing House Pvt Ltd, Mumbai.
- 4. Susanne Chishti., & Janos Barberis(2016), The Fintech book: The financial technology handbook for investors, entrepreneurs and visionaries. John Wiley & Sons.

Website and e-learning source

- 1. https://corporatefinanceinstitute.com/resources/knowledge/finance/fintech-financial-technology.
- 2. https://mrcet.com/downloads/digital_notes/CSE/IV%20Year/CSE%20B.TECH%20IV%20YEAR%20II%20SEM%20BCT%20(R18A0534)%20NOTES%20Final%20 PDF.pdf
- 3. https://www.irdai.gov.in/ADMINCMS/cms/frmGeneral_Layout.aspx?page=Page No108&flag=1

Note: Latest edition of the books may be used

Course Learning Outcomes (for Mapping with POs and PSOs)

COs	CO Description	Cognitive Level
CO1	Relate the transformation in banking from traditional to new age	K1,K2,K3
CO2	Apply modern techniques of digital banking	K1,K2,K3
CO3	Evaluate the role of insurance sector	K1,K2,K3
CO4	Examine the regulatory mechanism	K1,K2,K3
CO5	Assess risk mitigation strategies	K1,K2

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	3	3	3	3	3	2	2	2	3	3	3	3
CO ₂	3	3	3	3	3	3	2	2	2	3	3	3	3
CO3	2	3	3	3	3	3	2	2	2	3	3	3	3
CO4	2	3	3	3	3	3	2	2	2	3	3	3	3
CO5	3	3	3	3	3	3	2	2	2	3	3	3	3

Title of the Course	Introduction to Industry 4.0	Hours/Week	05
Course Code	APECP14 A	Credits	03
Category	Elective IA	Year & Semester	I & I
Prerequisites	UG Commerce (Computer Applications)	Regulation	2024

- > To enable the students to comprehend the change from industry 1.0 to 4.0
- To gain knowledge on the challenges and future prospects of applying artificial
 - > Intelligence
 - > To learn the applications of big data for industrial growth and development
 - > To understand the applications of IoT in various sectors
 - > To understand why education has to be aligned with industry 4.0

UNITS	Contents	COs	Cognitive Levels
UNIT-I	Introduction Industry: Meaning, Types - Industrial Revolution: Industrial Revolution 1.0 to 4.0: Meaning, Goals and Design Principles - Technologies of Industry 4.0 - Big Data – Artificial Intelligence (AI) – Industrial Internet of Things - Cyber Security – Cloud – Augmented Reality.	CO1	K1,K2,K3
UNIT-II	Artificial Intelligence Artificial Intelligence (AI): Need, History and Foundations -The AI - environment - Societal Influences of AI - Application Domains and Tools - Associated Technologies of AI - Future prospects of AI - Challenges of AI.	CO2	K1,K2,K3

	Big Data		
	Evolution - Data Evolution - Data : Terminologies - Essential of Big		
	Data in Industry 4.0 - Big Data Merits and Limitations - Big Data		
	Components : Big Data Characteristics - Big Data Processing		
п	Frameworks - Big Data Tools - Big Data Applications - Big Data		
UNIT-III	Domain Stack: Big Data in Data Science - Big Data in IoT - Big	CO3	K1,K2,K3
UN	Data in Machine Learning - Big Data in Databases - Big Data		
	Usecases: Big Data in Social Causes - Big Data for Industry - Big		
	Data Roles - Learning Platforms; Internet of Things (IoT) :		
	Introduction to IoT - Architecture of IoT Technologies for IoT -		
	Developing IoT Applications - Applications of IoT - Security in IoT.		
	Applications of IoT IoT in Manufacturing – Healthcare – Education – Aerospace and		
VI	Defence - Agriculture - Transportation and Logistics - Impact of	CO4	
UNIT-IV	Industry 4.0 on Society: Impact on Business, Government, People -		K1,K2,K3
i i	Tools for Artificial Intelligence - Big Data and Data Analytics -		
	Virtual Reality - Augmented Reality - IoT - Robotics.		
_	Industry 4.0		
V-T	Education 4.0 – Curriculum 4.0 – Faculty 4.0 – Skills required for	CO5	
UNIT-V	Future - Tools for Education – Artificial Intelligence Jobs in 2030 –		K1,K2
1	Jobs 2030 - Framework for aligning Education with Industry 4.0.		

- 1. Seema Acharya J, Subhashini Chellappan, (2019) "Big Data and Analytics", 2nd Edition, Wiley Publication, New Delhi.
- 2. Russel S, Norvig P (2010), "Artificial Intelligence: A Modern approach", 3rdEdition, Prentice Hall, New York.
- 3. Pethuru Raj and Anupama C. Raman, (2017),"The Internet of Things: Enabling Technologies, Platforms, and Use Cases", Auerbach Publications

Reference Books

- 1. Judith Hurwitz, Alan Nugent, Fern Halper, Marcia Kaufman, "Big Data for Dummies", John Wiley & Sons, Inc.
- 2. Nilsson (2000), Artificial Intelligence: A new synthesis, Nils J Harcourt Asia PTE Ltd.

Website and e-learning source

- 1. https://sist.sathyabama.ac.in/sist_coursematerial/uploads/SEEA1403.pdf
- 2. https://library.oapen.org/bitstream/handle/20.500.12657/43836/external_content.pdf? sequence=1
- 3. https://www.vssut.ac.in/lecture_notes/lecture1428643004.pdf

Course Learning Outcomes (for Mapping with POs and PSOs)

COs	CO Description	Cognitive Level
CO1	Discuss on the change from industry 1.0 to 4.0	K1,K2,K3
CO2	Discover the challenges and future prospects of applying artificial intelligence	K1,K2,K3
CO3	Apply big data for industrial growth and development	K1,K2,K3
CO4	Apply IoT in various sectors like Manufacturing, Healthcare, Education, Aerospace and Défense	K1,K2,K3
CO5	Appraise why education has to be aligned with industry 4.0	K1,K2

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	3	3	3	3	3	3	3	3	3	3	3	3
CO ₂	3	3	3	3	3	3	3	3	3	3	3	3	3
CO3	3	3	3	3	3	3	3	3	3	3	3	3	3
CO4	3	3	3	3	3	3	3	3	3	3	3	3	3
CO5	3	3	3	3	3	3	3	3	3	3	3	3	3

Title of the Course	BIG DATA ANALYTICS	Hours/Week	5
Course Code	APECP14B	Credits	3
Category	Elective IB	Year & Semester	I & I
Prerequisites	UG Commerce (Computer Applications)	Regulation	2024

- 1. To understand the various aspects of data science and applying them in health care
- 2. To learn the applications of big data for industrial growth and development
- 3. To understand the characteristics of 5 V's
- 4. To know the big data problems
- 5. To understand the Hadoop

UNITS	Contents	COs	Cognitive
			Levels
	Introduction to Data Science		
+	Introduction to data science - Case Studies - Data Science in	CO1	K1,K2
UNIT-I	Biomedicine and Healthcare – Sequence Processing – Medical Image	001	111,112
5	Analysis - Natural Language Processing - Network Modelling and		
	Probabilistic Modelling.		
	Big Data		
	Big data: Meaning – Importance of Big Data – Example of Big Data		
UNIT-II	- Source of Big Data - Machine - Generated Data - Advantages - Big	CO2	K1,K2,K3
5	Data generated by people - Organization of Generated Data -		
	Integrating the data.		
	Characteristics of Big Data		
	Characteristics of big data volume - Variety -Velocity -		V1 V2 V2
UNIT-III	Characteristics of Big Data - 23 Veracity - Valence and Value -	CO3	K1,K2,K3
	Getting value out of Big Data using 5-step process to structure your		
	analysis.		

	Data Science: Getting value out of Big Data		
>	Building a Big Data Strategy – Happening of Big Data science – Five	GO 4	V1 V2 V4
UNIT-IV	Components of Data Science. Steps in Data Science: Acquiring Data,	CO4	K1,K2,K4
N ₂	Preprocessing and Exploring Data - Analysing Data -		
	Communicating results – Turning insights into action.		
	Big Data Systems and Hadoop		
	Meaning of Distributed File System – Scalable Computing over the		
	Internet - Programming Models for Big Data - Introduction to		
-	Hadoop systems – The Hadoop Distributed File System: A Storage	COF	
UNIT-V	System for Big Data – YARN: A Resource Manager for Hadoop –	CO5	K1,K2,K3
	Map Reduce: Simple Programming for Big Results - When to		
	Reconsider Hadoop? - Cloud Computing: An important Big Data		
	enabler.		

- 1. Peter Guerra and Kirk Borne (2016), "Ten Signs of Data Science Maturity", O'Reily Media Pvt Ltd, USA
- 2. Tom White (2012), "Hadoop: The Definitive Guide" Third Edition, O'Reily Media, USA.
- 3. SeemaAcharya (2015), SubhasiniChellappan, "Big Data Analytics", Wiley, USA

Reference Books

- 1. Howard Wen, Big Ethics for Big Data, O'Reilly Media, USA.
- 2. Michael Mineli, Michael Chambers, AmbigaDhiraj (2013), Big Data, Big Analytics: Emerging Business Intelligence and Analytic Trends for Today's Businesses, Wiley Publications, USA.
- 3. Judith S.Hurwitz, Alan Nugent, Fern Halper, Marcia Kaufman (2015), "Big Data for Dummies", John Wiley & Sons, Inc., USA.

Website and e-learning source

- 1. https://www.coursera.org/learn/big-data-introduction/home/welcome
- 2. https://www.coursera.org/learn/bioconductor?action=enroll&authMode=login

Course Learning Outcomes (for Mapping with POs and PSOs)

COs	CO Description	Cognitive Level
CO1	Describe the Big Data landscape including examples of real world big data problems	K1,K2
CO2	Explain the advantages of Big Data.	K1,K2,K3
CO3	Explain the Vs of Big Data and its impacts of data collection, monitoring, storage, analysis and reporting	K1,K2,K3
CO4	Identify what are and what are not big data problems and be able to recast big data problems as data science questions	K1,K2,K4
CO5	Explain Hadoop technology	K1,K2,K3

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	3	3	3	3	3	2	2	2	3	2	3	3
CO ₂	3	3	3	3	3	3	2	2	2	3	3	3	3
CO3	3	3	3	3	3	3	2	2	2	3	3	3	3
CO4	3	3	3	3	3	3	2	2	2	3	3	3	3
CO5	3	3	3	3	3	3	2	2	2	3	3	3	3

Title of the Course	ENTERPRISE RESOURCE PLANNING	Hours/Week	5
Course Code	APECP15A	Credits	3
Category	Elective IIA	Year & Semester	I & I
Prerequisites	UG Commerce (Computer Applications)	Regulation	2024

- 1. To learn the history and growth of ERP
- 2. To understand the risks involved while using ERP
- 3. To gain knowledge on the various ERP technologies
- 4. To learn the dynamics of ERP marketplace
- **5.** To choose appropriate ERP solutions or packages

UNITS	Contents	COs	Cognitive Levels
UNIT-I	Enterprise an Overview Business Functions and Business Processes - Integrated Management Information - Business Modelling - Integrated Data Model. Business Processes: Major Business Processes. Introduction to ERP: Common ERP Myths - A Brief History of ERP - Reasons for the Growth of ERP Market - Advantages of ERP.	CO1	K1,K2
UNIT-II	Risk of ERP People Issues - Process Risks - Technological Risks - Implementation Issues-Operation and Maintenance Issues - Unique Risks of ERP Projects - Managing Risks on ERP Projects. Benefits of ERP: Information Integration - Reduction of Lead Time - On-Time Shipment - Reduction in Cycle Time - Improved Resource Utilization - Better Customer Satisfaction - Improved Supplier Performance - Increased Flexibility - Reduced Quality Costs - Better Analysis and Planning Capabilities - Improved Information Accuracy and Decision Making Capability - Use of Latest Technology.	CO2	K1,K2,K3

	ERP and Related Technologies		
	Business Process Reengineering (BPR) - Business Intelligence (BI) -		
	Business Analytics (BA) - Data Warehousing- Data Mining - On -		
	Line Analytical Processing (OLAP) - Product Life Cycle		V1 V2 V4
UNIT-III	Management (PLM) - Supply Chain Management (SCM) - Customer	CO3	K1,K2,K4
	Relationship Management (CRM) - Geographic Information Systems		
	(GIS) - Intranets and Extranets. Advanced Technology and ERP		
	Security: Technological Advancements - Computer Crimes - ERP		
	and Security - Computer Security - Crime and Security.		
	ERP Market Place and Market Place Dynamics		
	Market Overview - ERP Market Tiers. Market Place Dynamics -		
IV	Industry - Wise ERP Market Share - ERP: The Indian Scenario.	CO4	K1,K2,K3
UNIT-IV	Business Modules of an ERP Package: Functional Modules of ERP		
Ω	Software: Integration of ERP, Supply Chain, and Customer		
	Relationship Applications.		
	ERP Implementation		
	Benefits of Implementing ERP - Implementation Challenges. ERP		
>	Implementation Life Cycle: Objectives of ERP Implementation -		
UNIT-V	Different Phases of ERP Implementation Reasons for ERP	CO5	V1 V2 V2
	Implementation Failure. ERP Package Selection: ERP Package		K1,K2,K3
	Evaluation and Selection - The Selection Process - ERP Packages:		
	Make or Buy.		

Books for study:

- 1. Alexis Leon (2008), "Enterprise Resource Planning", 2nd edition, Tata McGraw-Hill, Noida.
- 2. Jagan Nathan Vaman (2008), "ERP in Practice", Tata McGraw-Hill, Noida.
- 3. MahadeoJaiswal and Ganesh Vanapalli (2009), "ERP", Macmillan India, Noida.

Reference Books

- 1. Sinha P. Magal and Jeffery Word (2012), "Essentials of Business Process and Information System", Wiley India, USA.
- 2. Summer (2008), "ERP", Pearson Education, Noida.
- 3. Vinod Kumar Grag and N.K. Venkitakrishnan (2006), "ERP- Concepts and Practice", Prentice Hall of India, New Delhi.

Website and e-learning source

- 1. https://mrcet.com/downloads/digital_notes/CSE/III%20Year/ERP%20Digital%20notes.pdf
- $2. https://mrcet.com/downloads/digital_notes/ME/III\% 20 year/ERP\% 20 Complete\% 20 Digital\% 20 notes .pdf$
- 3. https://www.vssut.ac.in/lecture_notes/lecture1428643004.pdf

Course Learning Outcomes (for Mapping with POs and PSOs)

COs	CO Description	Cognitive Level
CO1	Recall the history and growth of ERP	K1,K2
CO2	Appraise the risks involved while using ERP	K1,K2,K4
СОЗ	Select from among various ERP technologies	K1,K2,K3
CO4	Analyse the dynamics of ERP marketplace	K1,K2,K3
CO5	Distinguish and choose appropriate ERP solutions or packages	K1,K2,K3

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	3	3	3	2	3	3	2	2	3	3	3	3
CO2	3	3	3	3	2	3	3	2	2	3	3	3	3
CO3	3	3	3	3	3	3	3	2	2	3	3	3	3
CO4	3	3	3	3	3	3	3	2	2	3	3	3	3
CO5	3	3	3	3	3	3	3	2	2	3	3	3	3

Title of the Course	DATABASE MANAGEMENT SYSTEM	Hours/Week	5
Course Code	APECP15B	Credits	3
Category	Elective IIB	Year & Semester	I & I
Prerequisites	UG Commerce (Computer Applications)	Regulation	2024

- 1. To introduce the basic concepts of Relational Database Management System and the working knowledge of Linux environment
- 2. To understand designing databases and queries in SQL
- 3. To learn RDBMS
- 4. To upskill the functions and operators
- 5. To understand the constraints, locks and MySQL

UNITS	Contents	COs	Cognitive
			Levels
	Introduction to Database Systems and Linux		
	Introduction to File and Database systems Database System Structure		
	- Data Models Introduction to Network Models: ER Model,	CO1	IZ1 IZO
UNIT-I	Relational Model - Introduction to Linux Operating System -	CO1	K1,K2
5	Properties of Linux - Desktop Environment - Linux basics commands		
	- Working with Files - Text Editors - I/O Redirections - Pipes, Filters,		
	and Wildcards - Changing Access Rights.		
	SQL Definition and Normalization		
	SQL – Data Definition - Queries in SQL - Updates - Views - Integrity		
UNIT-II	and Security. Relational Database design - Functional dependences	CO2	K1,K2
5	and Normalization for relational databases (up to BCNF) - Query		
	Forms.		

	Files and RDBMs		
	Record Storage and Primary File Organization - Secondary Storage		
	Devices - Operations on Files - Heap File - Sorted Files - Hashing		
	Techniques - Index Structure for Files - Different Types of Indexes -		V1 V2 V2
UNIT-III	B-Tree - B+Tree - Query Processing - Multimedia Databases - Basic	CO3	K1,K2,K3
N 5	Concepts and Applications - Indexing and Hashing - Text Databases -		
	Overview of RDBMs - Advantages of RDBMs over DBMs -		
	Introduction to Data Mining.		
	Data Definition and Manipulation Language		
	Data Definition Language - Data Manipulation Language -		
>	Transaction Control - Data Control Language Grant - Revoke	CO4	V1 V2 V2
UNIT-IV	Privilege Command - Set Operators - Joins- Kinds of Joins - Table	CO4	K1,K2,K3
S	Aliases - Sub queries - Multiple and Correlated Sub Queries -		
	Functions - Single Row - Date, Character, Numeric, Conversion and		
	Group Functions		
	Constraints and MYSQL		
>	Constraints - Domain, Equity, Referential Integrity Constraints Locks		
UNIT-V	- Types of Locks, Table Partitions - Synonym - Introduction to	CO5	V1 V2 V2
5	PL/SQL - Introduction - MySQL as an RDBMS Tool - Data types		K1,K2,K3
	and Commands.		

- 1. Ramakrishnan Raghu and Gehrke Johannes, "Database Management Systems", McGraw-Hill, USA.
- 2. Rajendra Prasad Mahapatra and GovindVerma, "Database Management System", Khanna Publications, New Delhi.

Reference Books

- 1. Ramon A Mata-Toledo and Pauline K Cushman, "Database Management System", Schaun's Outlines, New York.
- 2. Abraham Silberschatz, Henry F Korth and S. Sudarshan, "Database System Concepts" McGraw-Hill, USA.

Website and e-learning source

- $1. \quad http://education-portal.com/academy/lesson/what-is-a-database-management system purpose-and-function.html.$
- 2. http://www.comptechdoc.org/os/linux/usersguide/linux_ugbasics.html.
- 3. http://www.dummies.com/how-to/content/common-linux-commands.html.

Course Learning Outcomes (for Mapping with POs and PSOs)

COs	CO Description	Cognitive Level
CO1	Identify models and schemas in DBMS and LINUX	K1,K2
CO2	Demonstrate Queries in SQL	K1,K2
CO3	Discuss handling files and databases	K1,K2,K3
CO4	Apply skills on functions and operators in RDBMS	K1,K2,K3
CO5	Apply constraints and locks in SQL	K1,K2,K3

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	2	2	3	3	3	3	1	1	2	2	2	3	2
CO ₂	2	2	3	3	3	3	1	1	2	2	2	3	2
CO3	2	2	3	3	3	3	1	1	2	2	2	3	2
CO4	2	2	3	3	3	3	1	1	2	2	2	3	2
CO5	2	2	3	3	3	3	1	1	2	2	2	3	2

Title of the Course	STRATEGIC COST MANAGEMENT	Hours/Week	06
Course Code	APCCP21	Credits	05
Category	Core-IV	Year & Semester	I & II
Prerequisites	UG Commerce	Regulation	2024

- > To analyse the aspects of strategic and quality control management
- > To analyse and select cost control techniques
- > To apply activity based costing for decision making
- > To utilise transfer pricing methods in cost determination
- > To apply cost management techniques in various sectors

UNITS	Contents	COs	Cognitive
			Levels
UNIT-I	UNIT I (18 hrs) Introduction to Strategic Cost Management Introduction to Strategic Cost Management (SCM) – Need for SCM – Differences between SCM and Traditional Cost Management - Value Chain Analysis: Meaning and Steps - Quality Cost Management: Meaning of Quality and Quality Management – Cost of Quality –Indian Cost Accounting Standard 21 on Quality Control - Introduction to Lean System – Benefits of Lean System – Kaizen Costing. – Theory only		K1 K2 K3 K4
UNIT-II	UNIT II (18 hrs) Cost Control and Reduction Cost Management Techniques: Cost Control: Meaning and Prerequisites - Cost Reduction: Meaning and Scope - Differences between Cost control and cost reduction - Pareto Analysis: Meaning, importance and applications - Theory only	CO1 CO2	K1 K2 K3 K4
UNIT-III	UNIT III (18 hrs) Decision Involving Alternative Choices – Pricing Decisions and Strategies – Relevant Cost Analysis - Target Costing - Product Life Cycle Costing – Asset Life Cycle Costing – Simple Problems.	CO3	K1, K2 K3 K4 K5
UNIT-IV	UNIT IV (18 hrs) Transfer Pricing Transfer Pricing: Meaning, Benefits, Methods: Pricing based on cost, Market price as transfer price, Negotiated pricing and Pricing based on opportunity costs – Practical Problems.		K1, K2 K3, K4 K5

UNIT-V	UNIT V (18 hrs) Activity Based Cost Management and Just in Time (JIT) Activity Based Cost Management: Concept, Purpose, Stages, Benefits, Relevance in Decision making and its Application in Budgeting - Just in Time - Introduction, Benefits, Use of JIT in Measuring the Performance – Practical problems.		K1, K2 K3, K4 K5
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Note: Theory 40% & Problems 60%

Recommended Text Books

- 1. Ravi M Kishore (2018), "Strategic Cost Management", 5thEdition, TaxmannPublications Pvt. Ltd, New Delhi.
- 2. Bandgar P. K., (2017), "Strategic Cost Management", 1stEdition, HimalayaPublishing House Pvt Ltd, Mumbai.
- 3. Sexena V. K., (2020), "Strategic Cost Management and Performance Evaluation", 1stEdition, Sultan Chand & Sons, New Delhi.

Reference Books

John K Shank and Vijay Govindarajan (2008), Strategic Cost Management, Simon & Schuster; Latest edition, UK

- 2. JawaharLal, (2015), "Strategic Cost Management", 1st Edition, Himalaya Publishing House Pvt Ltd, Mumbai.)
- 3. Arora M. N., (2021), "A Text Book of Cost and Management Accounting", 11thEdition, Vikas Publishing House Pvt. Ltd., New Delhi.

Website and e-learning source

- 1. https://www.accountingtools.com/articles/strategic-cost-management.html#:~:text= Strategic%20cost%20management%20is%20the,it%20or%20have%20no%20impact.
- 2. https://ca-final.in/wp-content/uploads/2018/09/Chapter-4-Cost-ManagementTechniques.pdf
- 3. https://resource.cdn.icai.org/66530bos53753-cp5.pdf

Note: Latest edition of the books may be used

Course Learning Outcomes (for Mapping with POs and PSOs)

COs	CODescription	CognitiveLevel
CO1	Explain strategic cost management and Quality Control	K1, K2, K3, K4
CO2	Choose the appropriate technique for cost control	K1, K2, K3, K4
CO3	Choose different methods of decision making techniques	K1, K2, K3, K4, K5
CO4	Choose transfer pricing methods to solve problems	K1, K2, K3, K4, K5
CO5	Make use of activity based costing in practice	K1, K2, K3, K4, K5

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	2	-	-	-	-	-	2	-	2	3	2	1
CO2	3	2	-	-	-	-	-	2	-	2	3	2	1
CO3	3	2	-	3	2	2	2	2	-	2	3	2	1
CO4	3	2	_	2	2	-	_	2	-	2	3	3	1
CO5	3	2	1	-	ı	1	1	2	ı	1	3	2	1

Title of the Course	CORPORATE ACCOUNTING	Hours/Week	06
Course Code	APCCP22	Credits	05
Category	Core V	Year & Semester	I & II
Prerequisites	UG Commerce (Computer Applications)	Regulation	2024

- 1. To understand the accounting treatment for issue of shares
- 2. To determine profits for fire and marine insurance
- 3. To prepare consolidated financial statements
- 4. To account for price level changes
- 5. To adopt financial reporting standards

UNITS	Contents	COs	Cognitive
UNITS	Contents	COS	Levels
UNIT-I	UNIT 1 (18 hrs) Issue of Shares and Final Accounts of Companies Issue of Shares: ESOPs - ESPS - Sweat Equity Shares - Book Building- Buy-back of Shares - Conversion of debentures into shares - Final accounts of Companies as per Schedule III of the Companies Act, 2013 – Managerial remuneration.	CO1	K1 K2 K3 K4
UNIT-II	UNIT II (18 hrs) Insurance Company Accounts Insurance Company Accounts: Types of Insurance - Final accounts of life assurance Companies- Ascertainment of profit- Valuation Balance Sheet-Final accounts of Fire, Marine and miscellaneous Insurance Companies.	CO2	K1 K2 K3 K4
UNIT-III	Unit III (18 hrs) Consolidated financial statements Consolidated financial statements as per AS 21: Consolidated Profit and Loss Account—Minority interest— Cost of control—Capital reserve—Inter-company holdings—Preparation of consolidated Balance Sheet.	CO3	K1 K2 K3 K4
UNIT-IV	UNIT IV (18 hrs) Contemporary Accounting Methods Accounting for price level changes – Social responsibility accounting – Human resource accounting.	CO4	K1 K2 K3 K4

Financial reporting Financial reporting: Meaning, Objectives, Characteristics – Indian Accounting Standards (AS 5, AS 10, AS 19, AS 20) – Corporate Social Responsibility: Meaning, Key provisions of Companies Act, 2013, Accounting for CSR expenditure, Reporting of CSR, Presentation and disclosure in the financial statements. K1 K2 K3 K4		UNIT V (18 hrs)		
- Corporate Social Responsibility: Meaning, Key provisions of Companies Act, 2013, Accounting for CSR expenditure, Reporting of CSR, Presentation K3 K4	NIT-V	Financial reporting Financial reporting: Meaning, Objectives,		K1
Act, 2015, Accounting for CSR experienture, Reporting of CSR, Presentation K4		Characteristics – Indian Accounting Standards (AS 5, AS 10, AS 19, AS 20)		K2
Act, 2013, Accounting for CSR experienture, Reporting of CSR, Presentation K4		- Corporate Social Responsibility: Meaning, Key provisions of Companies		K3
	U	Act, 2013, Accounting for CSR expenditure, Reporting of CSR, Presentation		-
		and disclosure in the financial statements.		124

- 1. Gupta R. L. &Radhaswamy M. (2021), "Corporate Accounting Volume I & II", 14thEdition, Sultan Chand &Sons, New Delhi.
- 2. Maheshwari S. N., Sharad K. Maheshwari&Suneel K. Maheshwari, (2022), "Advanced Accountancy Volume I &II", 11thEdition, Vikas PublishingHouse Pvt. Ltd., New Delhi.
- 3. Jain S. P., Narang K. L., Simmi Agrawal and Monika Sehgal (2019), "Advanced Accountancy Corporate Accounting Volume II", 22ndEdition, Kalyani Publishers, New Delhi.
- 4. Reddy T. S. &Murthy A., (2022), "Corporate Accounting Volume I &II", 17th Edition, Margham Publications, Chennai.

ReferenceBooks

- 1. Arulanandam M.A &Raman K.S., (2021), "Advanced Accounting (Corporate Accounting II)", 8th Edition, Himalaya Publishing House Pvt Ltd, Mumbai.
- Shukla M C, Grewal T S and Gupta S C, (2022), "Advanced Accounts Volume II", 19th Edition, Sultan Chand &Sons, New Delhi.
- 3. Gupta R. L., (2022), "Problems and Solutions in Company Accounts", 2nd Edition, Sultan Chand &Sons, New Delhi.

Website and e-learning source

- 1. https://resource.cdn.icai.org/66550bos53754-p1-cp9.pdf
- 2. https://resource.cdn.icai.org/66545bos53754-p1-cp4.pdf
- 3. https://resource.cdn.icai.org/66638bos53803-cp1.pdf
- 4. http://ppup.ac.in/download/econtent/pdf/MBA%201st%20sem%20Lecture%20note %20on%20forensic%20accounting%20by%20Anjali.pdf

Course Learning Outcomes (for Mapping with POs and PSOs)

COs	CO Description	Cognitive Level
CO1	Determine profit and financial position by preparing financial statements of companies as per schedule III of Companies Act, 2013	KI,K2,K3,K4
CO2	Apply the provisions of IRDA Regulations in the preparation of final accounts of Life Insurance and General Insurance Companies.	K1,K2,K3,K4
CO3	Determine the overall profitability and financial position by preparing consolidated financial statements of holding companies in accordance with AS21.	
CO4	Analyze contemporary accounting methods	K1,K2,K3,K4
CO5	Examine Financial Reporting based on appropriate Accounting Standards and provisions of Companies Act 2013 with respect 4 40 Corporate Social Responsibility	KIK7KKK

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	3	-	-	-	-	-	-	-	-	3	2	-
CO2	3	3	-	-	-	-	-	-	-	-	3	2	-
CO ₃	3	3	-	3	2	2	1	1	_	-	3	2	1
CO4	3	3	-	3	2	2	-	-	-	-	3	2	1
CO5	3	3	-	3	2	2	-	-	-	-	3	2	1

Title of the Course	SETTING UP OF BUSINESS ENTITIES	Hours/Week	06
Course Code	APCCP23	Credits	04
Category	Core VI	Year & Semester	I & II
Prerequisites	UG Commerce (Computer Applications)	Regulation	2024

- 1. To understand the start-up landscape and its financing
- 2. To analyze the formation and registration of Section 8 company
- 3. To outline the concept of LLP and business collaboration
- 4. To understand the procedure for obtaining registration and license
- 5. To create awareness about the legal compliances governing business entities

UNITS	Contents	COs	Cognitive
CIVIIS	Contents	COS	Levels
	Start-ups in India Start-ups – Evolution – Definition of a Start-up –		
	Start-up landscape in India – Start-up India policy – Funding support		K 1
÷	and incentives – Indian states with Start-up policies – Exemptions for	CO1	K2
UNIT-I	start-ups – Life cycle of a Start-up – Important points for Start-ups –	COI	K3
Ú	Financing options available for Start-ups – Equity financing – Debt		
	financing - Venture capital financing - IPO - Crowd funding -		
	Incubators - Mudra banks -Successful Startups in India.		
	Non-Profit Organisations Formation and registration of NGOs -		
	Section 8 Company - Definition - Features - Exemptions -		K1
II	Requirements of Section 8 Company – Application for incorporation	CO2	K2
UNIT-II	- Trust: Objectives of a trust - Persons who can create a trust -		К3
	Differences between a public and private trust – Exemptions available		
	to trusts - Formation of a trust - Trust deed -Society - Advantages -		
	Disadvantages – Formation of a society – Tax exemption to NGOs.		

UNIT-III	Limited Liability Partnership and Joint Venture Limited Liability Partnership: Definition – Nature and characteristics – Advantages and disadvantages – Procedure for incorporation – LLP agreement – Annual compliances of LLP-Business collaboration: Definition – Types – Joint venture: Advantages and disadvantages – Types – Joint venture agreement - Successful joint ventures in India.	CO3	K1 K2 K3
UNIT-IV	Registration and License Registration and License: Introduction – Business entity registration – Mandatory registration – PAN – Significance – Application and registration of PAN – Linking of PAN with Aadhaar –TAN – Persons liable to apply for TAN – Relevance of TAN – Procedure to apply for TAN –GST: Procedure for registration – Registration under Shops and Establishment Act – MSME registration – Clearance from Pollution Control Board – FSSAI registration and license – Trade mark, Patent and Design registration.	CO4	K1 K2 K3
UNIT-V	Environmental Legislations in India Water (Prevention and Control of Pollution) Act, 1974 – Air (Prevention and Control of Pollution) Act, 1981 – Environment Protection Act, 1986 – National Green Tribunal Act, 2010.	CO5	K1 K2 K3

- 1. Kailash Thakur, (2007) "Environment Protection Law and Policy in India", 2nd Edition, Deep & Deep Publication Pvt. Ltd., New Delhi.
- 2. Avtar Singh, (2015), "Intellectual Property Law", Eastern Book Company, Bangalore
- 3. Zad N.S and DivyaBajpai, (2022) "Setting up of Business Entities and Closure" (SUBEC), Taxmann, Chennai
- 4. Amit Vohra &RachitDhingra (2022) "Setting Up Of Business Entities & Closure", 6 th Edition, Bharath Law House, New Delhi

Reference Books

- 1. Setting up of Business Entities and Closure (2021), Module 1, Paper 3, The Institute of Company Secretaries of India, MP Printers, Noida
- 2. The Air (Prevention and Control of Pollution) Act, 1981, Bare Act, 2022 Edition, Universal/LexisNexis, Noida
- 3. The Water (Prevention and Control of Pollution) Act, 1974, Bare Act, 2022 Edition, Universal/LexisNexis, Noida
- 4. Cliff Ennico, (2005) "Small Business Survival Guide Starting Protecting and Securing your Business for Long-Term Success", Adams Media, USA
- 5. Daniel Sitarz,(2011) "Sole Proprietorship: Small Business Start-up Kit", 3rdEdition, Nova Publishing, USA

Website and e-learning source

- 1.https://www.icsi.edu/media/webmodules/FINAL_FULL_BOOK_of_EP_SBEC_201 8.pdf
- 2. https://www.mca.gov.in/MinistryV2/incorporation_company.html
- 3.https://legislative.gov.in/sites/default/files/The%20Limited%20Liability%20 Partnership%20 Act,%202008.pdf
- 4. https://legislative.gov.in/sites/default/files/A1999-48.pdf
- $5. https://www.indiacode.nic.in/bitstream/123456789/6196/1/the_environment_protection_act \% 2C1986.pdf$

Note: Latest edition of the books may be used

Course Learning Out comes(for Mapping with POs and PSOs)

COs	CODescription	CognitiveLevel
CO1	Compare the various avenues of acquiring finance to setup a business entity	K1, K2,K3
CO2	Recall the legal requirements for Section 8 Company	K1, K2,K3
CO3	Examine the provisions for LLP and joint venture	K1, K2,K3
CO4	Analyse the registration and licensing procedure	K1, K2,K3
CO5	Examine the compliance of regulatory framework regarding environment	K1, K2,K3

Department of Commerce CA - Syllabus (Effect from 2024-2025)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	3	-	2	2	2	2	2	_	2	3	3	2
CO2	3	3	3	-	2	2	2	2	_	2	3	3	2
CO ₃	3	3	3	-	2	2	2	2	-	2	3	3	2
CO4	3	3	-	2	2	2	2	2	_	2	3	3	2
CO5	3	3	-	2	2	2	2	2	_	2	3	3	2

Title of the Course	DATA MINING AND DATA WAREHOUSING	Hours/Week	03
Course Code	APECP24 A	Credits	03
Category	Elective III	Year & Semester	I & II
Prerequisites		Regulation	2024

- > To understand the basic concepts, principles and need of data warehousing
- > To gain knowledge on the data warehouse architecture, modelling and its implementation.
- > To understand steps in implementing data mart and its various dimensions
- > To learn the features, types and challenges of data mining
- > To aid the students to understand the various data mining tools and techniques

UNITS	Contents	COs	Cognitive
UNIIS	Contents	COS	Levels
	UNIT I (12 hrs)		
	Data Warehouse		
	Definition - history of data warehouse - features of data warehouses -		
I-I	characteristics of data warehouse - goals of data warehousing-	CO1	K2
UNIT-I	principles of data warehousing - need for data warehouse - benefits of		
	data warehouse - need for separate data warehouse - difference		
	between database and data warehouse - applications of data		
	warehouses - components of data warehouse- data staging component.		
	UNIT II (12 hrs)		
UNIT-II	Data Warehouse Architecture Data warehouse architecture - properties of data warehouse architectures - types of data warehouse architectures- three-tier data warehouse architecture - ETL (extract, transform, and load) process - selecting an ELT tool- Difference between ETL and ELT types of data warehouses - data warehouse modelling - data modelling life cycle - types of data 43 warehouse models- data warehouse design - data warehouse implementation- implementation guidelines - meta data - necessary of metadata in data warehouses - types of metadata- metadata repository - benefits of metadata repository.	CO2	K4

	UNIT III (12 hrs)		
	Data Mart		
	Data Mart- Reasons for creating a data mart- Types of Data Marts-		
	Steps in Implementing a Data Mart- Difference between Data	CO3	K4
UNIT-III	Warehouse and Data Mart Dimensional Modeling-Objectives of	003	
n	Dimensional Modeling- Advantages of Dimensional Modeling -		
	Elements of Dimensional Modeling - Dimension Table-		
	Multidimensional Data Model Data Cube.		
	UNIT IV (12 hrs)		
	Data Mining		
>	Definition - History of Data Mining- Features of Data Mining - Types		K2
UNIT-IV	of Data Mining - Data Mining Vs Data Warehousing- Advantages and	CO4	KZ
No	Disadvantages of Data Mining - Data Mining Applications -		
	Challenges of Implementation in Data mining - Steps involved in Data		
	Mining - Classification of Data Mining Systems.		
	UNIT V (12hrs)		
	Data Mining Tools & Techniques		
7-7	Data Mining Implementation Process - Data Mining Architecture -		
UNIT-V	Clustering in Data Mining - Different types of Clustering - Text Data	CO5	K4
	Mining - Bitcoin Data Mining - Data Mining Vs Big Data - Data		
	Mining Models - Trends in Data Mining.		

- 1. Jiawei Han, MichelineKamber (2011), Data Mining, Concepts and Techniques, Morgan Kauffman Publishers, California.
- 2. Pang Ning Tan, Michael Steinbach, Vipin Kumar (2005), Introduction to Data Mining, Addison Wesley, USA. 3. K. P. Soman, ShyamDiwakar, V. Ajay (2006), Insight into Data Mining: Theory & Practice, Prentice Hall of India, New Delhi.

Reference Books

- 1. BPB Editorial Board (2004), "Data Mining", BPB publications, Noida.
- 2. Ian H. Witten & Eibe Frank (2011), "Data Mining, Practical Machine Learning Tools and Techniques", Morgan Kaufmann series.
- 3. Ramesh Sharda, Dursun Delen, Efraim Turban (2018), "Business Intelligence", Pearson Education Services Pvt Ltd, Noida.

Website and e-learning source

- https://mrcet.com/downloads/digital_notes/ME/III%20year/ERP%20 Complete%20Digital%20notes.pdf
- 2. https://mrcet.com/pdf/Lab%20Manuals/IT/DATA%20WAREHOUSING%20AND%020DAT A%20MINING%20(R18A0524).pdf00

Course Learning Outcomes (for Mapping with POs and PSOs)

COs	CO Description	Cognitive Level
CO1	Explain the basic concepts, principles and need of data warehousing	K2
CO2	Appraise data warehouse architecture, modelling and its implementation.	K4
CO3	Choose various steps in implementing data mart and its dimensions	K4
CO4	Recall the features and types of data mining	K2
CO5	Apply various data mining tools and techniques	K4

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	2	3	2	2	-	-	-	-	-	3	3	3
CO2	3	1	3	2	2	1	1	1	-	1	3	3	3
CO3	2	2	3	3	2	-	-	2	-	1	3	3	3
CO4	3	-	3	3	3	2	2	2	-		3	3	3
CO5	3	3	3	3	3	3	2	-	2	2	3	3	3

Title of the Course	TECHNOLOGY IN BANKING	Hours/Week	03
Course Code	APECP24 B	Credits	03
Category	Elective III	Year & Semester	I & II
Prerequisites		Regulation	2024

- 1. To understand the network essentials for an operational core banking system
- 2. To provide an overview of customer centric electronic banking.
- 3. To understand the evolution of electronic fund transfer systems in the banking sector
- 4. To analyse the digital technologies offered in banking services.
- 5. To understand the information security system

UNITS	Contents	COs	Cognitive Levels
UNIT-I	UNIT I (12 hrs) Introduction to Core Banking Computerization Essentials of Bank Computerization—Stand Alone and Multi User System — Local Area Network and Wide Area Network: Features, Advantages and Limitations — Core Banking: Essential Requirements	CO1	K2
UNIT-II	UNIT II (12 hrs) Electronic Payment System and Banking Facilities Electronic Payment Systems – ATM: Features – Advantages Disadvantages—Brown Labe land White Label ATM, PIN, Electro Magnetic Cards, Credit Cards, Debit Cards and Smart Cards: Features, Benefits and Limitations – Multiple Pin in Smart Card – Electronic Purse – Electronic Cheque – Electronic Cash – Electronic Banking – Home Banking(Corporate and Personal) – Update Facilities – Internet Banking – Mobile Banking: Features, Advantages and Limitations – Signature Storage and Retrieval System – Cheque Truncation – MICR and OCR: Characteristics –Advantages and Limitations.	CO2	K4

	UNIT III (12 hrs)		
UNIT-III	Electronic Fund Transfer and Its Transitions Electronic Fund Transfer System – Electronic Credit and Debit Clearing – NEFT, RTGS, VSAT, SFMS, SWIFT: Features, Advantages and Limitations – Digital Signature Unified Payments Interface (UPI): Concept, Mechanism and Services Covered – Digital Wallets (E-Wallets): Features, Benefits and Types.	CO3	K4
UNIT-IV	UNIT IV (12 hrs) Trends in Banking Technology Recent Developments in Banking Technology: Digital Account Opening – Application Programming Interface – Video Collaboration – Person-to-Person Payments – Cloud Computing – NUUP (National Unified USSD Platform), AePS (Aadhaar enabled Payment System) – APBS (Aadhaar Payments Bridge System) - Role of IDBRT (Institute of Development and Research in Banking) in banking technology development - Status of E-banking in India - Process of E-Banking - Benefits of E-banking - Emerging challenges in banking industry - Scope of IT to tackle the key challenges.	CO4	K2
UNIT-V	Information Security System Information security - Software based security systems - Hardware based security systems (smart card, M chip) — Hackers: Techniques used by the hackers, Phishing, Pharming, Key loggers, Screen loggers, Phishing - Trojans transaction poisoning - Card related fraud - Site cloning — False merchant site - Authentication methodologies and security measures (Password protection - Smart cards - Biometric characteristics) - Encryption and security - Customer confidentiality - Regulatory environment of internet banking - Legal Framework for Electronic Transactions — Cyber security as per Information Technology Act, 2000 — RBI Guidelines on Internet Banking.	CO5	К4

- 1. SangeethaR,(2013) "Technology in Banking", 1st Edition, Charulatha Publications, Chennai.
- 2. Sohani, A K, (2012) "Technology in Banking Sector", SBS Publishers and Distributors Pvt Ltd, New Delhi.
- 3. Uppal R K and Dhiraj Sharma, (2017) "Banking with Technology: A New Vision 2020", Bharti Publication, New Delhi
- 4. Indian Institute of Banking and Finance, (2017) "Information Technology, Data Communications and Electronic Banking", 3rd Edition, Macmillan Publishers India Private Limited, Noida.

Reference Books

- 1. Vadlamani Ravi, (2007) "Advances in Banking Technology and Management: Impacts of ICT and CRM", 1st Edition, Information Science Reference, Hershey, (USA).
- 2. Lucian Morrisand Tim Walker, (2021) "The Handbook of Banking Technology", John Wiley & Sons, New York.
- 3. Indian Institute of Banking and Finance, (2017), "Security in Electronic Banking", 3rd Edition, Macmillan Publishers India Private Limited, Noida.
- 4. Uppal R.K., AgrimUppal(2008) "Banking Services and Information Technology: The Indian Experience", New Century Publications, New Delhi.

Website and e-learning source

- 1. https://rbidocs.rbi.org.in/rdocs/Bulletin/PDFs/64767.pdf
- 2.https://www.researchgate.net/profile/RaviVadlamani/publication/237383828_Chapter_I_Introduction_to_Banking_Technology_and_Management/links/572a89bc08aef7c7e2c4fbc3/Chapter-I_Introduction-to_Banking-Technology-and-Management.pdf
- 3. https://eprocure.gov.in/cppp/rulesandprocs/kbadqkdlcswfjdelrquehwuxcfmijmuixngu dufgbuub gubfugbububjxcgfvsbdihbgfGhdfgFHytyhRtMjk4NzY=#:~:text=%5B9th%20June%2C%202000%5 D%20An,communication%20and%20storage%20of%20information% 2C

Course Learning Outcomes (for Mapping with POs and PSOs)

COs	CO Description	Cognitive Level
CO1	Discuss the utility of stand-alone and multi-user systems access in Core banking.	K2
CO2	Assess the multi-faceted electronic payment options available to customer and host transactions in banking.	K4
CO3	Evaluate the dynamic transitions in Electronic Fund transfer systems.	K4
CO4	Evaluate the enhanced utility and user interface and other recent developments in banking technologies.	K2
CO5	Assess the information security system	K4

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	2	3	2	2	-	-	-	-	-	3	3	3
CO2	3	1	3	2	2	1	1	1	-	1	3	3	3
CO3	2	2	3	3	2	-	-	2	-	1	3	3	3
CO4	3	-	3	3	3	2	2	2	-		3	3	3
CO5	3	3	3	3	3	3	2	1	2	2	3	3	3

Title of the Course	FINANCIAL ANALYTICS (PRACTICALS)	Hours/Week	03
Course Code	APECP25 A	Credits	3
Category	Elective IV	Year & Semester	I & II
Prerequisites		Regulation	2024

- > To understand the statistical concepts relating to Probability, decision making under uncertainty and analysis of exploratory data
- > To learn the use of regression, time series analysis and building of models using accounting data
- > To gain knowledge on R and python programming
- > To prepare, analyse and forecast financial statements using cash flow statements
- > To gain knowledge on concept, application, and issues in capital budgeting

UNITS	Contents	COs	Cognitive Levels
UNIT-I	UNIT I (12 hrs) Statistical Concepts Probability, Normal, Lognormal distribution properties, Decision making under uncertainty - Cleaning and pre-processing financial data, Exploratory Data Analysis in Finance	CO1	K2
UNIT-II	UNIT II (12 hrs) Simple Linear Models Use of Regression in Finance, Building Models using Accounting Data, Understanding stock price behaviour, time series analysis in finance.	CO2	K4
UNIT-III	UNIT III (12 hrs) Using R for Analysis of Data Quick introduction to R and Python, understanding data in finance, sources of data, Using R for analysis of data.	CO3	K4
UNIT- IV	UNIT IV (12 hrs) Cash Flow Concepts Cash flow statement – Prepare and Analyse, Modelling and forecasting of financial statements.	CO4	K2
UNIT-V	UNIT V (12 hrs) Capital Budgeting NPV, IRR – Concept, application, and issues, Use of real options for better financial outcomes.	CO5	K4

- 1. Gary Koop, "Analysis of Economic Data", 4th Edition, Wiley, USA.
- 2. David Ruppert, David S. Matteson, "Statistics and Data Analysis for Financial Engineering: with R examples", Springers, USA.

Reference Books

- 1. Ang Clifford, "Analyzing Financial Data and Implementing Financial Models Using 'R", Springers, USA.
- 2. Wayne L. Winston, "Microsoft Excel 2013: Data Analysis and Business Modeling", Microsoft Publishing, USA.

Website and e-learning source

- 1. https://personal.ntu.edu.sg/nprivault/MH8331/financial_risk_analytics.pdf
- 2. https://dynamics.microsoft.com/en-us/finance/what-is-financial-analytics/

Course Learning Outcomes (for Mapping with POs and PSOs)

COs	CO Description	Cognitive Level
CO1	Analyse decisions under uncertainty and also analyse exploratory	K2
CO2	Build models using accounting data and analyse using regression and time series tools	K4
CO3	Apply R and python programming	K4
CO4	Estimate and analyse financial statements using cash flow statements	K2
CO5	Select appropriate capital budgeting techniques for decision making	K4

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	2	3	2	2	-	-	-	-	-	3	3	3
CO2	3	1	3	2	2	1	1	1	-	1	3	3	3
CO3	2	2	3	3	2	-	-	2	-	1	3	3	3
CO4	3	-	3	3	3	2	2	2	-		3	3	3
CO5	3	3	3	3	3	3	2	-	2	2	3	3	3

Title of the Course	MANAGEMENT INFORMATION SYSTEM	Hours/Week	03
Course Code	APECP25B	Credits	03
Category	Elective IV	Year & Semester	I & II
Prerequisites		Regulation	2024

- 1. To understand the basic concept of Information system
- 2. To identify the importance of MIS
- ${\bf 3.}\ To\ understand\ the\ Functional\ Management\ Information\ System$
- 4. To learn the role of system analyst
- 5. To apply the concept of Enterprise Resource Planning

UNITS	Contents	COs	Cognitive Levels
UNIT-I	UNIT I (12 hrs) Information System Introduction to information system - Management - Structure and Activities - Information needs and sources - Types of management decisions and information need - System classification - Elements of system, input, output, process and feedback.	CO1	K2
UNIT-II	UNIT II (12 hrs) Types of Management Information Systems Transaction Processing Information System - Information system for managers - Intelligence information system - Decision support system - Executive information systems.	CO2	K4
UNIT-III	UNIT III (12 hrs) Functional Management Information Systems Functional Management Information System: Production Information system - Marketing Information Systems - Accounting Information System - Financial Information System - Human Resource Information System.	CO3	K4
UNIT-IV	UNIT IV (12 hrs) System design and Database System Analysis and Design: The work of a system analyst - SDLC- System design — Requirement analysis - Data flow diagram - Relationship diagram - Design Implementation - Evaluation and maintenance of MIS - Database System: Overview of Database - Components - Advantages and disadvantages of database.	CO4	K2

	UNIT V (12 hrs)		
UNIT-V	Enterprise Resource Planning Enterprise Resource Planning (ERP) System - Benefits of the ERP - How ERP is different from conventional packages - Need for ERP - ERP components - Selection of ERP Package - ERP implementation - Customer Relationship management - Organisation & Types - Decision Making - Data & information - Characteristics & Classification of information - Cost & value of information - Various channels of information and MIS	CO5	K4

- 1. Azam, M (2012), "Management Information System", McGrawHill Education, Noida.
- 2. Laudon, K., Laudon, J. and Dass, R. (2010), "Management Information Systems Managing the Digital Firm", 11th Edition, Pearson, Noida.
- 3. Murdick, R.G., Ross, J.E. and Claggett, J.R. (2011), "Information Systems for Modern Management", 3rd Edition, PHI, New Delhi.

Reference Books

- 1. O'Brien, J.A., Morakas, G.M. and Behl, R. (2009), "Management Information Systems", 9th Edition, Tata McGraw-Hill Education, Noida.
- 2. Saunders, C.S. and Pearson, K.E. (2009), "Managing and Using Information Systems", 3rd Edition, Wiley India Pvt. Ltd., New Delhi.
- 3. Stair, R. and Reynolds, G. (2012), "Information Systems", 10th Edition, Cengage Learning, Noida.

Website and e-learning source

- 1. https://cleartax.in/g/terms/mis-meaning-mis-full-form-marketing-information system/amp
- 2. https://www.techtarget.com/searchitoperations/definition/MIS-management information-systems

Course Learning Outcomes (for Mapping with POs and PSOs)

COs	CO Description	Cognitive Level
CO1	Identify the basic concept of Information system	K2
CO2	Understand various types of Management Information System	K4
CO3	Apply MIS in Functional areas of business	K4
CO4	Describe the role of system analyst	K2
CO5	Apply the concept of Enterprise resource planning	K4

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	2	3	2	2	-	-	-	-	-	3	3	3
CO ₂	3	1	3	2	2	1	1	1	-	1	3	3	3
CO3	2	2	3	3	2	-	-	2	-	1	3	3	3
CO4	3	-	3	3	3	2	2	2	-		3	3	3
CO5	3	3	3	3	3	3	2	-	2	2	3	3	3

Title of the Course	ADVERTISING AND MEDIA MANAGEMENT	Hours/Week	04
Course Code	APSCP26	Credits	02
Category	SKILL ENHANCEMENT	Year & Semester	I & II
Prerequisites		Regulation	2024

- 1. To acquaint students with creative strategies in advertising
- 2. To educate students on the importance of media advertising
- 3. To assist students to create an Advertisement Copy
- 4. To acquaint students with creative strategies in advertising
- 5. To educate students on the importance of media advertising

UNITS	Contents	COs	Cognitive Levels
UNIT-I	UNIT 1 (12 hrs) Introduction Meaning, Definition and Evolution of Advertising – Role of Advertising – Advertising as a Promotional tool –Economic, Social and Ethical Aspects of Advertising – Advertising as a Communication Process	CO1	K2
UNIT-II	UNIT 2 (12 hrs) Creative Strategy Management Advertisement Copy and Advertisement Designing Meaning – Preparation and process – Types of Advertisement Copy –Elements of Advertisement Copy and advertisement Design Advertisement Layout Structure of an Advertisement Layout—Principles of Advertisement Layout	CO2	K4
UNIT-III	UNIT 3 (12 hrs) Advertising and Campaign Planning Marketing Strategy and Situational Analysis—Advertising Plan and Objectives—DAGMAR Approach—Preparation of Campaign-Stages in Campaign Process	CO3	K4
UNIT-IV	UNIT 4 (12 hrs) Advertising Media Strategy Role of Media, Types of Media Indoor, Outdoor, Electronic and Online Advantages and Disadvantages – Media Planning Selection and Scheduling	CO4	K2

V-TIND	UNIT 5 (12 hrs) Media Management strategies Media Choice Criteria-Factors affecting Choice of Media –Choosing the right Agency Role, Types and Functions of Advertisement Agencies, Selection and Coordination of Advertising Agency – Advertisement Budgeting – Types –Affordable Rate Method, Percentage of Sales Method, Competitive Parity Method and Objective and Task Method	CO5	K4
	Theory 80% Practical Exposure 20%		

Belch. Advertising and Promotion. New Delhi, Tata Mc Graw Hill, 2017

2. Kenneth, E. Clow & Donald E. Baack. Integrated Advertising Promotion & Marketing Communication. New Delhi: Prentice Hall, 2015.

Reference Books

- Bovee, John. Courtland. L. George, Dovel.P and Wood, Marian Burk. Advertising Excellence, New Delhi, TataMcGraw Hill.1994
- 2. Wells. Advertising Principles and Practice, New Delhi, Prentice Hall of India, 2016
- 3. Christ in a Spurgeon. Advertising and New Media. USA Taylor & Francis, latest edition
- 4. Appannaiah .H. RandRamnath, Advertising and Media Management, Himalaya Publisher,2016

Website and e-learning source

Journals:

Journal of Advertising, Research Journal of Advertising Education

Note: Latest edition of the books may be used

Course Learning Outcomes (for Mapping with POs and PSOs)

COs	CO Description	Cognitive Level
CO1	Understand advertising and its communication process and develop advertising copy	K2
CO2	Analyze individual media businesses and understand the economic drivers of the media economy	K4
CO3	Analysis marketing strategy and prepare campaign	K4
CO4	Develop an integrated marketing plan using a wide variety of media	K2
CO5	Understand media choices and prepare advertisement budgeting	K4

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PSO1	PSO2	PSO3
CO1	3	3	1	3	2	2	-	-	-	-	3	1	2
CO2	2	2	3	2	3	3	1	1	-	1	2	2	1
CO3	2	1	2	3	2	2	-	2	-	1	3	3	3
CO4	1	3	1	2	1	1	2	2	-		2	2	2
CO5	3	2	2	2	2	2	2	-	2	2	1	1	1