

Affiliated to

DR. A.P.J. ABDUL KALAM TECHNICAL UNIVERSITY UTTAR PRADESH, LUCKNOW



Evaluation Scheme & Syllabus

For

Masters of Business Administration MBA

Second Year

(Effective from the Session: 2023-24)

Masters of Business Administration MBA EVALUATION SCHEME

SEMESTER-III

S.	Subject Code	Subject Name		erio	ds	E	valua	ation Sch	eme		End ester		
No	Subject code			T	P	CT	TA	Total	PS	TE	PE	Total	Credit
1	AMBA0301	Strategic Management	3	0	0	30	20	50	0	100	0	150	3
2	AMBA0302	Corporate Governance, Values & Ethics	3	0	0	30	20	50	0	100	0	150	3
3		Specialization Group -1 Elective -1	3	1	0	30	20	50	0	100	0	150	4
4		Specialization Group -1 Elective- 2	3	1	0	30	20	50	0	100	0	150	4
5		Specialization Group -1 Elective- 3	3	1	0	30	20	50	0	100	0	150	4
6		Specialization Group -2 Elective- 1	3	1	0	30	20	50	0	100	0	150	4
7		Specialization Group -2 Elective -2	3	1	0	30	20	50	0	100	0	150	4
		Summer Internship Project Report	0	0	4				50		100	150	2
		GRAND TOTAL											28

Abbreviation Used:-

L: Lecture, T: Tutorial, P: Practical, CT: Class Test, TA: Teacher Assessment, PS: Practical Sessional, TE: Theory End Semester Exam., PE: Practical End Semester Exam.

MBA III SEMESTER

S.No	Subject Code	Semester	Subject name										
Core Subjects III Semester													
1	AMBA0301	III SEM	Strategic Management										
2	AMBA0302	III SEM	Corporate Governance, Values and Ethics										
	PROJECT												
1	AMBA0359	III SEM	Summer Internship Project										
ELECTIVE SUBJECTS													
	Finance Specialization												
1 AMBAFM0311 III SEM Security Analysis and Portfolio Management													
2	AMBAFM0312	III SEM	Corporate Tax Planning										
3	AMBAFM0313	III SEM	Indian Financial Market and Services										
			HR Specialization										
1	AMBAHR0311	III SEM	HR Analytics										
2	AMBAHR0312	III SEM	Employee Relations and Labor Law										
3	AMBAHR0313	III SEM	Performance and Reward Management										
	T		arketing Specialization										
1	AMBAMK0311	III SEM	Digital and Social Media Marketing										
2	AMBAMK0312	III SEM	Product and Brand Management										
3	AMBAMK0313	III SEM	Consumer Behavior and Advertising Management										
	1	,	ess Intelligence) Specialization										
1	AMBABI0311	III SEM	ERP Modules										
2	AMBABI0312	III SEM	Machine Learning & Artificial Intelligence										
3	AMBABI0313	III SEM	Cloud and Big Data										
			oly Chain Management Specialisation										
1	AMBALS0312	III SEM	Supply chain Planning and Demand Forecasting										
2	AMBALS0311	III SEM	Procurement and Vendor Development										
3 AMBALS0313 III SEM Warehouse and Distribution Management													
	A N A D A 0.0212		ss Analytics Specialisation										
1	AMBABA0312	III SEM	Introduction to Data Science										
2	AMBABA0311	III SEM	Business Intelligence and Data Warehousing										
3	AMBABA0313	III SEM	Predictive Analytics										

Masters of Business Administration MBA

EVALUATION SCHEME

SEMESTER-IV

S.	Subject Code	Subject Name	Periods			E	valua	tion Sch	eme	End Semester		T . 4 . 1	G . 1'4
No	, and the second	Ü	L	T	P	CT	TA	Total	PS	TE	PE	Total	Credit
1	AMBA0401	Project Management	3	0	0	30	20	50	0	100	0	150	3
2		Specialization Group -1 Elective -4	3	1	0	30	20	50	0	100	0	150	4
3		Specialization Group -1 Elective -5	3	1	0	30	20	50	0	100	0	150	4
4		Specialization Group -1 Elective -6	3	1	0	30	20	50	0	100	0	150	4
5		Specialization Group -2 Elective- 3	3	1	0	30	20	50	0	100	0	150	4
6		Specialization Group -2 Elective- 4	3	1	0	30	20	50	0	100	0	150	4
7	7 AMBA0459 Research Project Report*		0	0	6				100		100	200	3
		GRANI	TOT	ΊΑL								1100	26

^{*} Satisfactory completion of minimum 1 'Research Publication' in a listed Journal is mandatory for award of degree.

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MBA IV SEMESTER

S.No	Subject Code	Semester	Subject name										
			Core Subjects IV Semester										
1	AMBA0401	IV SEM	Project Management										
			PROJECT										
1	AMBA0459	IV SEM	Research Project Report										
			ELECTIVE SUBJECTS										
	Finance Specialization												
1	AMBAFM0411	IV SEM	Financial Modeling										
2	AMBAFM0412	IV SEM	Working Capital Management										
3	AMBAFM0413	IV SEM	Financial Derivatives & Risk Management										
			HR Specialization										
1	AMBAHR0411	IV SEM	Talent Management										
2	AMBAHR0412	IV SEM	Strategic Human Resource Management										
3	AMBAHR0413	IV SEM	Diversity of Work Force (IHRM)										
			Marketing Specialization										
1	AMBAMK0411	IV SEM	Sales & Retail Management										
2	AMBAMK0412	IV SEM	Marketing Analytics										
3	AMBAMK0413	IV SEM	Marketing of Services										
		BI (Bu	nsiness Intelligence) Specialization										
1	AMBABI0411	IV SEM	Cyber Security										
2	AMBABI0412	IV SEM	Data Base Technology										
3	AMBABI0413	IV SEM	System Analysis & Design										
		istics and S	upply Chain Management Specialisation										
1	AMBALS0412	IV SEM	Information Systems in Logistics and Supply Chain										
2	AMBALS0411	IV SEM	Global Business Management for Logistics and Supply Chain										
3	AMBALS0413	IV SEM	Supply Chain Analytics										
	,	Bus	iness Analytics Specialisation										
1	AMBABA0412	IV SEM	Machine Learning and Artificial Intelligence										
2	AMBABA0411	IV SEM	Data Visualisation										
3	AMBABA0413	IV SEM	Social Media Analytics										

MBA SECOND YEAR													
Course	Code	AMBA0301	L	T	P	Credit							
Course	Title	Strategic Management	3	0	0	3							
Course	objectiv	ve: Objective of this course is to:	Dur	ation	36 Ho	ours							
1	A clea	ar understanding of the key concepts and principles of s	trateg	ic mar	nageme	nt.							
2	A set of useful analytical skills, tools and techniques for analyzing a company strategically.												
3	To provide a basic understanding of the nature and dynamics of the strategy formulation and implementation processes.												
4	To en	courage students to think critically and strategically.											
5	The a	bility to identify strategic issues and design appropriate	cours	ses of a	action.								

Pre-requisites: Business Environment

Course Contents / Syllabus

UNIT-I Introduction to Business Policy and Strategies 6 Hours

Introduction, Fundamentals of Strategy, Conceptual Evolution of Strategy, Scope and Importance of Strategies, Purpose of Business, Difference between Goals and Objectives of Business, Strategic Intent through Vision and Mission Statements, Core Competencies of Business, levels of strategy

Case study related to Goals and objectives of business, Core Competencies

UNIT-II Environmental Scanning 8 Hours

Analyzing Company's **External Environment:** Environmental appraisal Scenario planning Preparing Environmental Threat Opportunity Profile an and (ETOP), PESTEL analysis, EFE Matrix

Analyzing Industry Environment: Industry Analysis - Porter's Five Forces Model of competition, Entry & Exit Barriers, Strategic Group analysis.

Analyzing Company's Internal Environment: Resource based view of a firm, meaning, types & sources of competitive advantage, analyzing Company's Resources and Competitive Position, VRIO Framework, competitive advantage, competitive parity & competitive disadvantage, Core Competence, characteristics of core competencies, Distinctive competitiveness, Benchmarking as a method of comparative analysis.

Case Study on Environmental scanning

UNIT-III Strategy Formulation and Strategic Analysis 8 Hours

Generic Competitive Strategies: Meaning of generic competitive strategies, Low cost, Differentiation, Focus – when to use which strategy.

Grand Strategies: Stability, Growth (Diversification Strategies, Vertical Integration Strategies, Mergers, Acquisition & Takeover Strategies, Strategic Alliances), Retrenchment— Turnaround, Divestment, Liquidation, Outsourcing Strategies.

Structural analysis of competitive environment, Strategic analysis and choice-Criteria for evaluating strategic alternatives, Tools of strategic analysis, strategic choice-BCG Matrix, Ansoff Grid, GE 9 Cell grid.

Case Study on Strategy formulation

UNIT-IV	Strategy Implementation, Evaluation and control	8 Hours

Components of a strategic plan, barriers to implementation of strategy, Mintzberg's 5 Ps, 7 S framework, Leadership and corporate culture, functional plans to implement strategy, Ethics and social responsibility.

Strategic evaluation and control, Strategic control and operational control, techniques of strategic evaluation.

Case Study on strategy implementation

UNIT-V	Contemporary issues	6 Hours

Balance score card, Porter five forces model, Red ocean and blue ocean strategy. Strategies for situation like competing in emerging industries, maturing or declining industries, fragmented industries.

Case Study

Course	Course outcome: At the end of course, the student will be able to:											
CO 1	Formulate organizational vision, mission, goals and values	Apply (K3)										
CO 2	Develop strategies and action plans to achieve an organization vision, mission and goals	Create (K6)										
CO 3	Develop powers of managerial judgment, how to assess business risk and improve ability to make sound decisions and achieve effective outcomes	Create (K6)										
CO 4	Evaluate and revise programs and procedures in order to achieve org goals	Evaluate (K5)										
CO 5	Consider the ethical dimension of the strategic mgt process	Analyze(K4)										

Text books

- 1. Strategic Management and Business Policy by Azhar Kazmi, Tata McGraw-Hill
- 2. Wheelen, L. Thomas and Hunger, David J.; Strategic Management and Business Policy, Crafting and Executing Strategy; Pearson Education, Thirteenth edition.

- 1. Business Policy and Strategic Management by P. Subba Rao
- 2. Crafting and Executing Strategy- The Quest for Competitive Advantage by Thompson, Strickland, Gamble & Jain, Tata McGraw-Hill
- 3. Business Strategy formulation by Anthony Ulwick

							I	MF	BA	SE	CCC	ON:	D Y	YEA	R									
Course	Code	AM	ИВА	0302	,													I	,	Т		P		Credit
Course	Title	Cor	rpo	rate (Gove	erna	ance	:e, \	Val	lues	s &	E E	thic	es				3		0		0		3
Course			-															Dı	ıra	tion:	36	Hou	ırs	
1	Introduc	e the co	conc	ept and	d imp	ortar	nce o	of c	corp	orat	te go	ove	rnan	ice ir	n bu	sine	SS							
2	Make stu																							
3	Understa	anding	g of v	various	aspe	ects a	and d	dim	nensi	ions	of	ethi	ics i	n ma	ınag	eme	nt							
Discuss the ethical values and that drive the modern businesses																								
5 Develop the understanding of modern challenges and issues in corporate Governance.																								
Pre-req	uisites:	Princi	ciple	es & F	Pract	ice	of N	Ma	ınag	gem	ien	t, C	Orga	aniz	atio	onal	Be	havio	our					
							Co	our	rse	Co	nte	ents	s / S	Sylla	abu	IS								
UNIT-I			C	orpora	ate G	Fover	rnar	nce	;															Hours: 7
Meaning	g, Defini	ition, l	, Na	ture, l	Issue	es, n	need	d o	of co	orpo	ora	te ş	gov	erna	ance	e co	ode,	Cod	e of	Cor	por	ate F	rac	tices,
Corporat	te Socia	l Resp	spor	ısibili	ty, (Corp	pora	ate	So	cial	1 R	epo	orti	ng,	Co	rpo	rate	Gov	ern	ance	ano	d the	Ro	ole of
Board (BOD),	Corp	pora	ite G	love	rnan	nce	S	yste	em	W	Vor	ldw	ide	, C	Corp	ora	te D	isc	losur	e	and	Inv	estor
Protectio	on in Ind	lia.	•						•							_								
UNIT-I	Ī.		C	orpora	ate G	Fover	rnar	nce	Fra	ame	woı	rk i	n In	dia									I	Hours: 8
Corpora	te Board	ds and	d Its	s Pow	ers,	Res	spor	nsil	bili	ities	s ar	nd l	Dis	qua	lific	cati	ons	Boa	rd (Comi	nit	tees a	and	their
Function							-							-										
Grievano																•	-							
Commit	tee, and	Audi	dit C	Comm	ittee	e; R	egu	ılat	tory	y Fr	ram	new	ork	cof	Co	orpo	orate	e Go	veri	nance	in	Ind	ia;	SEBI
Guidelin							_		•							-								
Governa												•											•	
UNIT-I	II		V	alues i	in Mo	oder	n Bı	usii	ness	S														Hours: 7
Values – through personal	Human	Value	ies;	Spirit	ual V	Valu	ues.	. M																
UNIT-I				usines		_																		Hours: 7
Meaning	. Defin	ition	1. N	ature	Im	nnor	tana	ce	E	thic	 cal	Di	len	ıma	ı –	Ef	hica	ıl De	ecis	ion 1	Ma]	kinø	F	thical
Reasonii	•					-																_		
Ethics in	•						_				•					-								0 0
of Ethics													. 01	op	-6 -		. 01	• • • • • • • • • • • • • • • • • • • •		11500			· op ·	
UNIT-V		- P vo - 1		thics																			,	Hours: 7
Institutio	onalizing intary ac	ctions.	Ethi s. Et	cs, Ti	radit	tiona	al v M, I	viev Eth	w, (Cor s an	d N	Mar	rket	ing,	, Ét								R	egulatory g, Ethical
Course	outcom	e:	At	the e	end o	of co	our	rse,	, th	ie st	tud	len	t w	ill b	e a	ble	to							
CO 1	Have in	nsights	ts into	o vario	us co	ncep	ots &	k ca	ases	rela	ited	to (Corp	orat	te Go	over	nan	ce.			Ur	nders	tan	d (K 2)

CO 2	Gain a deeper understanding of the about the Corporate Governance framework.	Apply (K 3)
CO 3	Develop the ability to practice various aspects, factors related value in business.	Analyzing (K 4)
CO 4	Work and discharge responsibilities in an ethical way in the organization	Applying (K 3)
CO 5	Understand modern practices of Corporate Governance in various areas of business.	Understand (K 2)

- 1. Fernando A C Business Ethics & Corporate Governance, 2e, Pearson
- 2. Kumar T N Satheesh- Corporate Governance, Oxford University Press
- 3. Mandal S K Ethics in business and corporate governance, 2e, McGraw-Hill

- 1. Hartman Laura P & Chatterjee Abha Business Ethics, Tata McGraw Hill
- 2. Mohapatra, Sreejesh- Case Studies in Business Ethics & Corporate Governance, 1e, Pearson

	MBA SECOND YEAR													
Course	Code	AMBA0359 L	T	P	Credit									
Course	Title	Summer Internship Project 0	0	4	2									
Course	objectiv	e: Objective of this project is to:	ntact F	Iours	: 10									
1 Assess interest and abilities in their field of Study.														
2	Develo	p work habits and attitudes necessary for job success.												
3	Demon	strate an understanding of professional and ethical practice.												
4	Develo	p analytical skills including the ability to understand information	on and											
	interpre	et data.												
5	Develo	p interpersonal skills which will enable them to build pr	rofessio	onal										
	relationships, work within a team structure and to manage conflict in the													
	workpl	ace.												

Guidelines:

- 1. At the end of second semester examination, it is mandatory for every student of MBA to undergo on-the-job practical training in any manufacturing, service or financial organization. The training will be of 6 to 8 weeks duration. The student is expected to undergo a compulsory training for the mentioned period.
- 2. During the training, the student is expected to learn about the organization and analyze and suggest solutions of a live problem. The objective is to equip the student with the knowledge of actual functioning of the organization and problems faced by them for exploring feasible suggestions.
- 3. During the course of training, the organization (where the student is undergoing training) will assign a problem/project to the student.
- 4. The student, after the completion of training will submit a report to the College/Institute which will form part of third semester examination.
- 5. The report (based on training/the problem/project studied) prepared by the student will be known as Summer Internship Project. The report should ordinarily be based on primary data. It should reflect in depth study of micro problem, ordinarily assigned by the organization where student undergoes training. Relevant tables and bibliography should support it. One comprehensive chapter must be included about the organization where the student has undergone training. This should deal with brief history of the organization, its structure, performance products/services and problem faced. This chapter will form part 1 of the report. Part 2 of the report will contain the study of micro research problem. The average size of report ordinarily will be of minimum 40-60 pages in standard font size (12) and double spacing. Two neatly typed and soft bound (paperback) copies of the report will be submitted to the College/Institute. The report will be typed in A-4 size paper.
- 6. The report will have two certificates. One by the Head of the Department and the other by the Reporting Officer of the organization where the student has undergone training. These two certificates should be attached in the beginning of the report.
- 7. The Summer Internship Project Report will carry 100 marks and will be evaluated by two examiners (external and internal). The evaluation will consist of (1) Project Report evaluation (2) Project Presentation and Viva. The Project Report evaluation will comprise of 50 marks and would be evaluated by internal project guide. The Presentation and Viva Voce would comprise of 100 marks and would be evaluated by two examiners (1 external and 1 internal). Only such person will evaluate the project report who has minimum three years of experience of teaching MBA classes in a College/University. Experience of teaching MBA

classes as guest faculty shall not be counted.

problems

- 8. It is mandatory that the student will make presentation in the presence of teachers and students. The student is expected to answer to the queries and questions raised in such a meeting.
- 9. The student shall prepare the Summer Internship Project Report as per the format given in the Summer Training Manual as prescribed by the Institute.
- 10. Students must publish their research paper in national / international journal or can present their research paper in national / international conference or conference proceedings.

paper in na	paper in national / international conference of conference proceedings.												
Project Report Evaluation: (Internal)													
Relevance of Objectives with Topic (10)				ance of Research hodology (20)	Interpretation and Analysis (20)	Total (50)							
Presentati	ion a	nd Viva V	Voce Prese	entation: (External)									
Objectives Res		Rese	earch logy (20)	Interpretation and Analysis (30)	Presentation and Communication Skills (30)			Total (100)					
Course ou	itcon	ne: At	the end o	f course, the studen	t will be able to:								
CO1	Ider	ntify and a	ınalyze bus	siness problem in an	organization through rese	earch.	Unde (K2)	erstanding					
CO2	Dev	elop the a	bility to id	lentify the various fu	nctions of the organization	n.	Anal	yze (K4)					
CO3	O3 Identify causes and effects of the problem. Evaluating (K5)												
CO4	Dev	elop abili	ty to interp	oret data and draw co	onclusions		Crea	ting (K6)					
CO5	Dev	elop Mu	lti-Discipli	inary Approach for	r identifying and solvir	ng business	Crea	ting (K6)					

MBA SECOND YEAR								
Course	e Code	AMBAI	FM0311	L	T	P	Credit	
Course	Title	Security	Analysis and Portfolio Management	3	1	0	4	
Course objective: Objective of this course is to:				D	urati	on: 40	hours	
1		e students stock port	to stock, stock market and approaches to investing folios.	in the	stock	market	t and	
2		erstanding of investment theory will be stressed and tied in with discussion of applicable niques such as portfolio selection.						
3		ip students with techniques that can be applied in different business situations regarding by portfolio management.						
4	Expose the students to the concepts and approaches applicable in the field of security analysis and portfolio management.							
5	Encourag	ge student	s to apply stock and debt valuation models in portfo	lio man	ageme	ent.		
Pre-rec	quisites: Re	equired Ba	asic Knowledge of capital market and time value of	money				
			Course Contents / Syllabus					
UNIT	'-T		Investment Environment				Hours:	

UNIT-I Investment Environment Hours:8

The Investment Environment - Meaning and objective of investment, investment vs. gambling and speculation, investment alternatives, investment process and Type of investors .Overview of Capital Market: Market of securities, Stock Exchange and New Issue Markets - their nature, structure, functioning and limitations; Securities trading - Equity and debentures/ bonds; Types of orders, margin trading, Participants in the financial market ,clearing and settlement procedures. Regularity systems for equity markets. Concept of return and risk.

UNIT-II Capital market Analysis Hours:8

Fundamental analysis: economic analysis, industry analysis and company analysis.

Technical analysis: DOW Theory, Support and Resistance level, Type of charts & its interpretations, moving averages and market indicators, Trend line, Gap Wave Theory, Relative strength.

Efficient market theory: weak form hypothesis, semi-strong form hypothesis and strong form hypothesis.

UNIT-III Bond and Equity Valuation Hours:1

Valuation of Equity Discounted Cash-flow techniques: Balance sheet valuation, Dividend discount models, Intrinsic value and market price, earnings multiplier approach, P/E ratio, Price/Book value, Price/sales ratio. CAPM (Capital Asset Pricing Model) and Arbitrage Pricing Theory. Case Studies

Valuation of Debentures/Bonds: nature of bonds, valuation, Bond theorem, Term structure of interest rates and concept of duration

UNIT-IV Portfolio Theory Hours:7

Risk & Return: Concept of Risk, Component & Measurement of risk, covariance, and correlation risk. Portfolio risk and return, Beta as a measure of risk, calculation of beta, Selection of Portfolio: Markowitz's Theory, Single Index Model, Case Studies.

UNIT-V Active Portfolio Management Hours:7

Portfolio Management and Performance Evaluation: Performance Evaluation of existing portfolio, Sharpe, Treynor and Jensen measures; Finding alternatives and revision of portfolio; Portfolio Management and Mutual Fund Industry

Course outcome: At the end of course, the student will be able to:

CO 1	Understand about various investment avenues.	(Understand) K2
CO 2	Understand the valuation of assets and manage investment portfolio.	(Understand) K2
CO 3	Measure risk of a stock or a portfolio position.	(Understand) K2
CO 4	Analyze and evaluate portfolio performance.	(Analyze) K4
CO 5	Understand and create various investment strategies on the basis of various market conditions.	(Create) K6

- 1) Rustagi R.P-Investment Analysis and Portfolio Management (Sultan Chand, 2nd Ed.)
- 2) Chandra P Investment Analysis and Portfolio Management (Tata McGraw Hill, 3rd Ed)
- 3) Kevin S. -Security Analysis and Portfolio Management (PHI, 2nd Ed.)

- 1) Ranganatham Security Analysis and Portfolio Management (Pearson Education, 2nd Ed.)
- 2) William F. Sharpe, Gordon J.Alexander and Jeffery V.Bailey: Investments, (Prentice Hall, 6th Ed).
- 3) Donald E. Fischer and Ronald J.Jordan: Security Analysis and Portfolio Management, (Pearson Education, 6th Ed)

		MBA SECOND YEAR					
Course	Code	AMBAFM0312	L	T	P	Cı	edit
Course	Title	Corporate Tax Planning	3	1	0		4
Course	objective: Objec	tive of this course is to:	D	urati	on:	40 Ho	urs
1		participants with the principles, problems and structure of	diff	eren	t typ	oes of	
2	_	riplete knowledge of basic concepts of income tax, understanceme and calculate Residential status of a person.	and	the p	rovi	sions	
3	Compute the total	al income under the various heads of income					
4	Get familiarize v	with the adjustments to be made in the taxable income.					
5	A broad underst	anding about the relevance of GST in taxation policy of the	ecoi	nomy	/		
Pre-req	uisites: Required	basic knowledge of taxation					
		Course Contents / Syllabus					
UNIT-I		Introduction to Direct Taxation				Hours	s: 6
Year,Inc	come Tax, Impo	Cannons of Taxation Person, Assesses, Income, Pre rtant Dates and Forms. Residential Status & Tax Incident atment of Agricultural income					
UNIT-II	UNIT-II Heads of Income					Hours	·· 10
		 Income from Salary includes allowances and Perquisi 				from	House
Property Long ter UNIT-III Clubbing	y, Profits & Gains, Image of incomes, Canal Cana	- Income from Salary includes allowances and Perquisis from Business or Profession, Capital Gains – Short term noome from Other sources Aggregation of income and adjustments Alculation of Taxable Income, Tax Calculation including	su	pital rchai	gain ge a	from ns (ST Hour and M	House CG) & s: 8
Property Long ter UNIT-III Clubbing relief, D	y, Profits & Gaing rm capital gains, I g of incomes, Ca Deduction, Rebate	- Income from Salary includes allowances and Perquisis from Business or Profession, Capital Gains – Short term noome from Other sources Aggregation of income and adjustments Aggregation of Taxable Income, Tax Calculation including Relief, Set Off & Carry Forward of Losses – Princip	su	pital rchai	gain ge a	from ns (ST Hour and M	House CG) & s: 8
Property Long ter UNIT-III Clubbing relief, E adjustme	y, Profits & Gaing rm capital gains, I g of incomes, Co Deduction, Rebate ent, Inter – source	- Income from Salary includes allowances and Perquisis from Business or Profession, Capital Gains – Short term noome from Other sources Aggregation of income and adjustments alculation of Taxable Income, Tax Calculation including e, Relief, Set Off & Carry Forward of Losses – Princip adjustment and Intra – head Set Off,	su	pital rchai	gain ge a	from ns (ST Hour and M ng, Int	House CG) & s: 8 argina er-head
Property Long ter UNIT-III Clubbing relief, D adjustme UNIT-IV	y, Profits & Gains, Imm capital gains, Imm capital gains, Imm g of incomes, Capeduction, Rebate ent, Inter – source	- Income from Salary includes allowances and Perquisis from Business or Profession, Capital Gains – Short term income from Other sources Aggregation of income and adjustments Alculation of Taxable Income ,Tax Calculation including Relief, Set Off & Carry Forward of Losses – Principe adjustment and Intra – head Set Off, Tax Planning & Management	Su ples	rchai	gain ge a	from as (ST Hour and M ag, Inte	House CG) & s: 8 argina er-head
Property Long ter UNIT-III Clubbing relief, D adjustme UNIT-IV Tax Pla appointment of tax, (y, Profits & Gains, Imm capital gains, Imm capital gains, Imm g of incomes, Capeduction, Rebate ent, Inter – source anning & Managment- Jurisdiction Offences, penaltic	- Income from Salary includes allowances and Perquisis from Business or Profession, Capital Gains – Short term noome from Other sources Aggregation of income and adjustments alculation of Taxable Income, Tax Calculation including e, Relief, Set Off & Carry Forward of Losses – Princip adjustment and Intra – head Set Off,	Su ples e Ta	rchar, Me	gainge anim	from ns (ST Hour and M ng, Interpretation Hour orities f tax-	House CG) & s: 8 argina er-head s:8
Property Long ter UNIT-III Clubbing relief, D adjustme UNIT-IV Tax Pla appointr of tax, O	y, Profits & Gains, Imm capital gains, Imm capital gains, Imm g of incomes, Capeduction, Rebate ent, Inter – source anning & Managment- Jurisdiction Offences, penaltic	— Income from Salary includes allowances and Perquisis from Business or Profession, Capital Gains — Short term income from Other sources Aggregation of income and adjustments Allowed alculation of Taxable Income ,Tax Calculation including e, Relief, Set Off & Carry Forward of Losses — Principle adjustment and Intra — head Set Off, Tax Planning & Management	Su ples e Ta	rchar, Me	gainge anim	from ns (ST Hour and M ng, Interpretation Hour orities f tax-	House CG) & s: 8 argina er-head s:8 Thei Refund
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CO 4	Have knowledge about various Tax Dates, Rates and Forms	(Apply) K3
CO 5	Understand how GST can be calculated & managed.	(Understand) K2

- 1) Dr. Vinod K. Singhania & Dr. Monica Singhania Students Guide to Income Tax (Taxmann Publication, Latest Edition according to assessment year
- 2) Girish Ahuja & Ravi Gupta Direct Tax Laws & Practice (Bharat Law House, Latest Edition)
- 3) Dr.B.K. Agarwal & Dr. Rajeev Agarwal Tax Planning and Management(Nirupam Publication, Latest Edition according to assessment year)

- 1) Dr. Vinod K. Singhania & Dr. Kapil Singhania Students Guide to Income Tax (Taxmann Publication, Latest Edition)
- 2) Parthasarathy Corporate Governance: Principles, Mechanisms & Practice (Wiley, Latest Edition)
- 3) H. P. Ranina Corporate Taxation (Orient Law House, Latest Edition)
- 4) Income Tax Reports, Company Law institute of India PvtLtd(Chennai Latest Edition)
- 5) Taxman, Taxman Allied SerivesPvtLtd.(New DelhiLatest Edition)

					MBA SECOND YEAR		
Credit	P	T	L		AFM0313	irse Code AMBAF	Course
4	0	1	3		Financial Market & Services	rse Title Indian F	Course
) Hours	on: 40	ratio	Du		ve of this course is to:	rse objective: Objective	Course
	ns,	utio	nstit	nancial I	of the Financial System of India, the role of Fina	Impart knowledge of	1
					and Financial Instruments.		
		ns,	ratio	its Ope	s' with the mechanism of Commercial Banking, i	Aware the students'	2
					lations etc.	Instruments Regulati	
	the	et in	larke	apital M	in acquiring analytical skills in the Money and ca	Help the students in	3
					medium and long term Funds		
	nism	echa	ıl me		s with the Microfinance as a growing source of F		4
					ciation among the students for Insurance products	T T T T	5
			5.	Services	Basic Knowledge for Indian Financial Market & S	-requisites: Required Bas	Pre-req
		ı			Course Contents / Syllabus		
Hours:6					Structure of Indian financial system	IT-I	UNIT-I
-					ial system: An overview. Theories of the Impa		
lation theory,	l regul	ncial	Fina	avings, I	ry, Credit creation Theory, Theory of forced sav		
TT 10					RBI & Financial Institutions	nncial liberation Theory.	
Hours:10					RBI & Financial Institutions	11-11	UNIT-I
RBI, Banking	-				rganization, management and functions, Recent		
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	foreign market.	(K3)
CO 4	Interpret the knowledge about the banking industry and demonstrate the various market demand analysis	Applying (K4)
CO 5	Understand the various insurance products and its regulations.	Understanding (K2)

- 1. Bhole, L M; Financial Institutions and Markets; McGraw-Hill Education
- 2. Khan, M.Y.; Indian Financial System; McGraw-Hill Education
- 3. Pathak, Bharti V.; Indian Financial System; Pearson Education

- 1. Singh, S.P.; Indian Financial System; Wisdom Publication
- 2. Machiraju, H.R.; Indian Financial System; Vikas Publishing House
- 3. Dorfman Marks S., "Introduction to Risk Management and Insurance", 5th Edition, Prentice Hall Inc, Englewood Cliffs N.J.

	MBA SECOND YEAR						
Cor	urse Code	AMBAHR0311		T	P	Credit	
Co	urse Title	HR Analytics 3	3	1	0	4	
Cou	rse objectiv	e: Objective of this course is to:	Duration: 40 Hours			ours	
1	Understand	I the concept of HR Analytics, analytic value chain, organization	onal s	system			
2	Equip stud	ents with knowledge of various HR Analytics Framework	HR	benchi	marks	and	
	metrics rele	evant to organizational goals					
3	Knowledge	e about the practices using HR analytics to support data-driven	decis	sion m	aking		
4	Understand and apply the concept of HR metrics analysis which includes the recruitment &						
	selection a	nalysis, diversity analysis, performance analysis					
5	Understand	I the concept of HR Scorecard, interventions & formulation	on of	evide	ence-b	ased	
	practices						
Pre-	requisites: I	Basics of HRM					

Course Contents / Syllabus

UNIT-I HR Analytics in Perspective

8 Hours

Introduction to HR Analytics, Defining HR Analytics, Basic of HR Analytics, Role & Capability of Analytics, Evolution of HR Analytics, Typical Application of HR Analytics, Analytic Value Chain, HR Analytics: The wave for HR value creation. Valuing HR Analytics in the Organizational System. Understanding the Organizational System, Locating the HR Challenges in the System.

UNIT-II HRA Frameworks

8 Hours

Current approaches to measuring HR and reporting value from HR contributions, Strategic HR Metrics versus Benchmarking, HR Scorecards & Workforce Scorecards and how they are different from HR Analytics, HR Maturity Framework: From level 1 to level 5, HR Analytics Frameworks: (a) LAMP framework; (b) HCM:21 Framework and (c) Talent ship Framework, 5 overarching components of an effective Analytics framework.

UNIT-III

Insight into Data Driven HR Analytics & HR Metrics

8 Hours

Defining metrics, Demographics, data sources and requirements, Types of data, tying data sets together, Difficulties in obtaining data, Typical data sources, Typical questions faced (survey), Typical data issues, Connecting HR Analytics to business benefit (case studies), Techniques for establishing questions, building support and interest, Obtaining data, Cleaning data (exercise), Supplementing data, ethics of measurement and evaluation. Human capital analytics continuum.

UNIT-IV

HR Metric Analysis

8 Hours

Recruitment and Selection Analytics: Evaluating Reliability and validity of selection models, finding out selection bias, Predicting the performance and turnover. Diversity Analysis: Equality, diversity, and inclusion, measuring diversity and inclusion, Testing the impact of diversity, Workforce segmentation and search for critical job roles. Performance Analysis: Predicting employee performance, training requirements, evaluating training and development, Optimizing selection and promotion decisions

UNIT-V

HR Scorecard

8 Hours

Assessing HR Program, engagement, and Turnover, finding money in Analytics, Linking HR Data to operational performance, HR Data, and stock performance. Creating HR Scorecard, develop an HR measurement system, guidelines for implementing a HR Scorecard. Monitoring impact of Interventions: Tracking impact interventions, Evaluating stress levels and value-change. Formulating evidence-based practices and responsible investment. Evaluation mediation process, moderation, and interaction analysis

Course	outcome: At the end of course, the student will be able to:	
CO 1	Understand the concepts & fundamental of HR analytics, value chain & organizational system	Understand (K2)
CO 2	Apply relevant HR Analytics framework for problem solving	Apply (K3)
CO 3	Analyzing different techniques of data driven and HR metrics	Analyze (K4)
CO 4	Apply various analysis techniques and should use for decision making	Apply (K3)
CO 5	Analyze the HR Scorecard, monitoring the impact of interventions & evaluate the mediation process, moderations and interaction analysis.	Analyze (K4)

- 1, Edwards Martin R, Edwards Kirsten Predictive HR Analytics: Mastering the HR Metric", Kogan Page Publishers, 2019.
- 2. By Dipak Kumar Bhattacharyya, HR Analytics-Understanding Theories and Applications, Sage Publications ,2017.

- 1. HR Analytics: The What, Why and How, by Tracey Smith, Edition ,2013.
- 2. Rachal Johnson, Lindsay McFarlane et.al. Murrey The Practical Guide to HR Analytics, Society For Human Resource, 2018

MBA SECOND YEAR						
Course Code		AMBAHR0312	L	T	P	Credit
Cour	se Title	Employee Relations and Labor Law	3	1	0	4
Cour	se objectiv	e: Objective of this course is to:	Duration: 40 Hours			
1	Provide co	onceptual framework of Industrial Relations.				
2		d and apply the concept of industrial relations stem in which it operates.				
3	Make awa	are of the present state of Industrial relations in India.				
4		d the laws relating to Industrial Relations, Social Security and and major reforms in labour laws.	d Wo	rking		

Pre-requisites: Basics of HRM

Course Contents / Syllabus

UNIT-I Employee Relations Management (ERM) & Industrial Relation

Hours 8

Employee Relations Management (ERM) & Industrial Relation: Introduction and Importance of Employee Relations Management, Employee Relations Management Tool, Aspects of Industrial Relations, Emerging challenges of IR in India, Linking Industrial Relations with economic growth of a country, Negotiations and Counseling.

Trade Unionism: Development of trade unionism, functions, type and structure, problems & suggestive remedial measures of trade unions, The Trade Unions Act 1926: Objective, Recognition and registration, Industrial Democracy & Participative Management. Case Studies

UNIT-II Collective Bargaining Hours 8

Collective Bargaining: Significance, types & procedure of Collective bargaining Discipline: The Industrial Employment (Standing Orders) Act 1961, Misconduct, Disciplinary Action, Types of Punishments, Code of Discipline, Domestic Enquiry, Grievance Handling in IR: Grievance Settlement Procedure, Industrial Disputes, Preventive & Settlement Machinery in India. Employee Participation and Empowerment: Objectives, Employee Participation, Advantages of Employee Participation, Employee Participation in India, Methods of Participation, Employee Empowerment.

Case Studies

UNIT-III Labor Law-I

Hours 8

The Factories Act, 1948 & The shop & Establishment Act, 1948; The Payment of Wages Act, 1923; The Workmen's compensation Act, 1972; The Industrial Disputes Act, 1947.

Conflict management: Definition, Levels, Sources, Stages, Cause and Effects of conflicts, Reactions and Responses towards conflict, Conflict Resolution Process.

UNIT-IV Labor Law-II Hours 8

The Payment of Minimum Wages Act 1936, The Contract Labor (Abolition & regulative) Act; The ESI Act, 1948; The Trade Unions Act, 1926, Child Labour (Prohibition & Regulation) Act, 1986 and its latest amendment. Scheduled Castes and Scheduled Tribes Commission.

UNIT-V Labor Law-III Hours 8	UNIT-V	Labor Law-III	Hours 8
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The payment of Bonus Act, 1965; The payment of Gratuity Act, 1972; The Maternity Benefit Act, 1961; Employee's Provident fund & Miscellaneous Provisions Act, 1952.

The Industrial Relations Code Bill, 2020; Code on Social Security Bill, 2020 and the Occupational Safety, Health and Working Conditions Code Bill, 2020.

Course outcome: At the end of course, the student will be able to:

CO 1	Knowledge of Industrial Relation framework	(Understand) K2
CO 2	Competency to understand the importance of Employee Relation within the perspective of Industrial Relation	(Understand) K2
CO 3	Knowledge about relevant Laws of HR management	(Apply) K3
CO 4	Competency to interpret and implement the Labour Laws within organization	(Evaluate) K5
CO 5	Competency to use Collective Bargaining and Grievance redressal Mechanism	(Apply) K3

Text books

- 1. Srivastava SC Industrial Relations and Labour Laws (Vikas, 2020, 7th Edition.)
- 2. Taxmann Labour Laws", Taxmann Allied Services Pvt. Ltd., 2019

- 1. Monappa Arun, "Industrial Relations and Labor laws", Tata McGraw Hill Edition, New Delhi,., 2E Edition, 2012.
- 2. Industrial Relations, Chaganti Satya Venkata Ratnam, Manoranjan Dhal, 2017.
- 3. Mamoria, Mamoria and Gankar, "Dynamics of Industrial Relations", Himalaya Publishing House, New Delhi, 2016.
- 4. D. P Sahoo: Employee Relations Management Texts and Cases (Sage Publication) 2020

			MBA SECOND YEAR				
Course	Code	AMBA	AHR0313	L	T	P	Credit
Course '	Title	Perfor	mance and Reward Management	3	1	0	4
Course o	bjective	: Obje	ctive of this course is to:	Dura	tion:	40 H	ours
			rstanding of the key concepts of performance managements	gement	and co	ontem	porary
n	nethods	for adn	ninistering compensation and rewards in practices				
			enefits of using a performance development plan ar	nd the c	onseq	uence	s of
	ot havir						
	Distingu	iish the	elements of an effective, integrated performance de	velopn	nent sy	ystem.	
4 F	Familiari	ize the	students with the concept of competency mapping a	nd und	erstan	ding it	ts
			velopment			Ü	
u	ındersta	nd vario	dents with various aspects of compensation system is ous issues linked with the process of fixing salary do e and benefits.				
Pre-requi	isites: B	asics o	f HRM.				_
Course C							
UNIT-I			Introduction to Performance Management				8 Hours
Introducti	ion to	Perforn	nance Management System : Meaning, Uses an	d purp	ose o	of Per	rformance
			ce Management vs Performance Appraisal, Perfo				
Managem						_	
_		rrent s	cenario Performance management as a System	and	Proces	s Es	tablishing
challenge	s in cu		cenario, Performance management as a System				_
challenges Performar	s in cu		cenario, Performance management as a System developing an Effective Appraisal System, Criteria				_
challenges Performar Studies	s in cu		developing an Effective Appraisal System, Criteria				KPI). Case
challenges Performar Studies UNIT-II	s in cu	erion of	_	ı (KRA	, KSA	VS F	XPI). Case 8 Hours

Managing Performance: Methods of managing performance of all the levels of Management, 360 degree Performance Appraisal, MBO and Performance analysis for Individual and organizational development. Human Resource Development: Introduction, Concept & Definition, Features, Objectives & Essentials

HRD at Micro and Macro levels , Significance of HRD Distinction between Personnel Function and HRD , Instruments or Mechanism of HRD, Implementation of HRD, HRD in Indian Industry, HRD

Strategies. Case Studies

UNIT-III	Competency Mapping	8 Hours
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Contemporary Issues: Potential appraisal, Competency mapping ,Competency mapping approaches & its linkage with Career Development and Succession planning, Balance score card: Introduction and Applications, Advantages and limitations. Benchmarking.

UNIT-IV	Reward System	8 Hours
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Reward System: Compensation- Definition, Function, and significance. Job evaluation: Methods of job evaluation, Inputs to job evaluation, Practical implication for technical/non-technical and executive/managerial positions and significance of wage differentials. Case Studies

UNIT-V	Compensation System	8 Hours
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Compensation: Method of pay and Allowances, Pay structure: Basic Pay, DA, HRA, Gross Pay, Take home pay etc, Calculation of :PF, ESI, BONUS and Gratuity, Cost To Company. Incentive schemes; Methods of payment: Time and piece rate. Fringe benefits & other allowances: Overtime, City compensatory, Travelling etc. Regulatory compliance: Introductions, Wage and Pay commissions, Overview of minimum wages Act-1948 and Equal Remuneration Act-1976. Profit Sharing options; Case Studies.

Course outcome: At the end of course, the student will be able to:

CO 1	Knowledge of Performance Management and Performance Appraisal	(Understand) K2
CO 2	Competency to understand the importance of importance of Performance Management	(Understand) K2
CO 3	Knowledge about the Compensation and Reward Systems	(Understand) K2
CO 4	Competency to implement the effective reward systems in the organization	(Evaluate) K5
CO 5	Ability to explain the relevance of competency mapping and understanding its linkage with career development	(Apply) K3

Text books

- 1. Robert Bacal, Performance Management, McGraw-Hill Education, 2012.
- 2. TV Rao, Performance Management, Toward Organizational Excellence, 2016.

- 1.Armstrong's Handbook of Performance Management: An Evidence-Based Guide to Delivering High Performance, Kogan Page Publishers, 2009.
- 2. Kevin , R. Murphy , Jeanette N. Cleveland, Madison E. Hanscom \cdot , Performance Appraisal and Management , Sage Publications, 2018.
- 3. Arup Verma, Pawan Budhwar, Performance Management Systems: An Experiential Approach, Sage Publications, 2019.

MBA SECOND YEAR							
Cou	Course Code AMBAMK0311 L T P Cr						dit
Cou	rse Title	Digital and Social Media Marketing	3	1	0	4	
Cour	rse objecti	ve: Objective of this course is to:	Dura	tion:	40 Ho	urs	
1	Provide u	understanding of digital and social media marketing pra	actices	.			
2 Impart learning on various digital channels and how to acquire and engage consumers online.						age	
3 Provide understanding of the concept of social media platforms							
4 Provide insights on building organizational competency by way of digital marketing practices and cost considerations.							
5 Develop understanding of the latest digital practices for marketing and promotion.							
Pre-requisites: Understanding of Basics of marketing concepts and social media platforms							
Course Contents / Syllabus							
UNI	T_I	Introduction to Digital Marketing			08	Hours	

UNIT-I Introduction to Digital Marketing 08 Hours

Introduction to Digital Marketing: The new digital world - trends that are driving shifts from traditional marketing practices to digital marketing practices, the modern digital consumer and new consumer's digital journey. Marketing strategies for the digital world - latest practices. Skills required in Digital Marketing.

Marketing Mix (7Ps) in online context, Integrated Internet Marketing communication.

UNIT -2 Acquiring & Engaging Users through Digital Channels

08 Hours

Acquiring & Engaging Users through Digital Channels: Understanding the relationship between content and branding and its impact on sales.

Digital Promotion Technique: overview of search engine optimization (SEO), search engine marketing, mobile marketing, video marketing, email marketing, viral marketing, content marketingand social-media marketing, Marketing gamification, Online campaign management; using marketing analytic tools to segment, target and position.

UNIT-3 Social Media Marketing

08 Hours

Social Media Marketing –The Role of Social Media Marketing, Meaning, Purpose, types of social media websites. Introduction to Blogging, Create a blog post for your project. Include headline, imagery, links and post, Content Planning and writing. Introduction to Facebook, Twitter, Google +, LinkedIn, YouTube, Instagram and Pinterest; their channel advertising and campaigns.

UNIT-4 Designing Organization for Digital Success

08 Hours

Designing Organization for Digital Success: Digital transformation, digital leadership principles, online P.R. and reputation management. ROI of digital strategies, how digital marketing is adding value to business, and evaluating cost effectiveness of digital strategies.

Planning website design, understanding site user requirement, site design and structure, develop and testing site.

UNIT-5 Digital Innovation and Trends

08 Hours

Digital Innovation and Trends: The contemporary digital revolution, digital transformation framework; security and privatization issues with digital marketing, Understanding trends in digital marketing – Indian and global context, online communities and co-creation. Managing online customer experience and e-survey.

Course	Course outcome: At the end of course, the student will be able					
CO1	Students will develop an understanding of digital and social media marketing practices.	Apply (K3),				
CO2	Students will develop understanding of the social media platforms	Evaluate (K5)				
CO3	Students will acquire the skill to acquire and Engage consumers online	Create (K6)				
CO4	Students will develop understanding of building organizational competency by way ofdigital marketing practices and cost considerations	Create (K6)				
CO5	Students will develop understanding of the latest digital practices for marketing and promotion.	Analyze (K4)				

Text Book

- 1. Moutsy Maiti: Internet Marketing, Oxford University Press India, First Edition
- 2. Vandana, Ahuja; Digital Marketing, Oxford University Press India, First Edition

- 1. Eric Greenberg, and Kates, Alexander; Strategic Digital Marketing: Top Digital Experts Share the Formula for Tangible Returns on Your Marketing Investment; McGraw-Hill Professional, First Edition
- 2. Ryan, Damian; Understanding Digital Marketing: marketing strategies for engaging the digital generation; Kogan Page, First Edition
- 3. Tracy L. Tuten& Michael R. Solomon: Social Media Marketing, Sage Publication, Second Edition

MBA SECOND YEAR						
Course Code		AMBAMK0312	L	T	P	Credit
Course Title		Product and Brand Management	3	1	0	4
Course objective: Objective of this course is to: Duration:40 Hours					ırs	
1	Learn fundamentals of Product and Brand Management.					
2	Make understand about competition at product level as well as brand level.					
3	Understand the role of brands, components of brands, brand equity					
4	unders	tand the Brand Positioning and Brand marketing Programs				
5	5 Provide insights into the conceptual framework for Strategic Brand Management.					
Dwg waa	rrigitage]	Having an understanding of Dasies of Draduat and Drand Mar	2000	aant	·	

Pre-requisites: Having an understanding of Basics of Product and Brand Management

Course Contents / Syllabus

UNIT-I Introduction to Product Management

08 Hours

Introduction to Product & Product Related Concepts: Product Management & Scope, Define Product, Classification of Product, Product Levels, Product Hierarchy.

Product Life Cycle: Product Life Cycle Stages and corresponding Strategies and Product Evaluation. Product Portfolio: Concept, Factors influencing Product Portfolio, The BCG Growth Matrix, Shell's Directional Policy Matrix

UNIT -2 New Product Strategy

08 Hours

New Products: New Product Categories, Organization for Product Management, prototyping, New Product Development Process, test marketing.

New product strategy: The need for Product Innovation Strategy, the components of new Product Strategy Commercialization: Test Marketing, Time to Market, Breaking into the Market, Managing Growth,

Resistance to Change, Leveraging new Product Growth, Sustaining Differentiation

Managing the mature Product: Offensive Strategies, Extending the product life cycle, Customer Relationship Management.

UNIT-3 Introduction to Brand Management and Brand Equity

08 Hours

Branding Basics: Brand, branding and significance of branding, Branding challenges and opportunities, Brand equity concept, Strategic brand management process, Identifying and establishing brand positioning, Planning and implementing brand marketing programs, Measuring and interpreting brand performance, growing and sustaining brand equity.

Brand Equity concept and Brand Equity Models: Brand Asset Valuation, Aaker Model, Brand Resonance.

UNIT-4

Brand Positioning and Brand Marketing Programs

08 Hours

Brand knowledge, Customer-based Brand equity Sources of brand equity - Brand Awareness, Brand Image, The Four steps of brand building, Creating customer value Identifying and establishing brand positioning, Positioning guidelines.

Planning and Implementing Brand Marketing Programs: Choosing brand elements to build brand equity, Options and tactics for Brand, Integrating marketing communication to build brand equity, Conceptualizing the leveraging process, Co- branding, Celebrity Endorsement.

UNIT-5

Measuring, Growing and Sustaining Brand Equity

08 Hours

The brand value chain, Designing brand tracking studies, Capturing customer mind set through quantitative research techniques.

Brand architecture, Brand hierarchy, Designing brand strategy, Brand extensions- advantage and disadvantage- Reinforcing brands, Revitalizing brands, Brand Failures.

Course	Course outcome: At the end of course, the student will be able			
CO1	Students will develop an understanding of Product and brand management	Apply (K3)		
CO2	Students will develop understanding of the Product Level and Brand level	Evaluate (K5)		
CO3	Students will acquire the skill to Brand management and Brand equity	Create (K6)		
CO4	To enable learners to understand basics of brand equity, insights into the conceptual framework for Strategic Brand Management	Create (K6)		
CO5	Understand the various aspects of Product Management and Product Strategy, strategic significance of Product and Brand Management in business.	Analyze (K4)		

Text Book

- 1. Product Strategy and Management, Michael Baker and Susan Hart, Pearson Education, Second Edition.
- 2. Strategic Brand Management, Kevin Lane Keller, M.G. Rameswaram and Isaac Jacob, Pearson Education, Third Edition.

Reference Books

- 1. Product Management, Donald R. Lehmann and Russell S. Winer, TMH, Fourth Edition
- 2. Innovation Management and New Product Development, Paul Trott, Pearson, Fourth Edition
- 3. Startegic Brand Management, Kapferer, J.-N. (1997). London: Kogan Page Limited
- 4. Brand Management, , H. V. Verma, 2004, New Delhi: Excel Books
- 5. Branding, A reference guide to solving your toughest branding problems andstrengthening your market position, B. VanAuken, 2007. Jaico Publishing House

Web resources:

- 1. http://www.entrepreuner.com/
- 2. http://www.ibef.org.com

		MBA SECOND YEAR				
Course Code	AMB	AMK0313	L	T	P	Credit
Course Title	Consu	mer Behavior & Advertising Management	3	1	0	4
Course objecti	Course objective: Objective of this course is to: Duration: 40 Hours					
1 Understa	and consum	er behavior and explain the consumer decision making proc	ess.			
2 Define	external	and internal influences on buying behavior.				
3 Unders	tand adve	ertising management and its framework.				
4 Unders	tand the	heoretical aspects of advertising effectiveness on	consun	ners.		
5 Unders	tand the	ethics related to advertising and consumer behavio	r. Also	create	es	
underst	anding o	f Budgetary control in advertising.				
Pre-requisites:	Having	basic understanding of Consumer Behavior &	Advert	tising		
Course Conten	ts / Sylla	bus				
UNIT-I		Introduction to Consumer Behavior			(08 Hours
Introduction: I	ntroducti	on to Consumer Behavior; Applications of co	onsume	er beh	avior	knowledge i
_		nd Customer, Consumer Behavior in the Contemp				
		formation Search, Evaluation of Alternatives, Po	st-Purc	chase	Behav	ior, Attributio
theory and Diff	usion of l					
UNIT-II		Consumers as individuals and in the social context				08 Hours
		s and in the social context: Consumer Perception				
-		rning theories and cognitive learning theories t				
		* & Age Influences, Social Class & Consumer	Behavi	ior, C	ultural	Influences o
Consumer Beha	wior.					
UNIT-III		Advertising Management				08 Hours
		g Management: Introduction, Meaning and Fran				
		g to Persuade the Buyer; Importance of Adv				
_		ng Mix and Positioning; Advertisers and Adv	ertisin	g Age	encies	; Choosing a
Advertising Ag	ency.	Concents of Advertising and its kinds				
INITE TY						NO TT arres

UNIT-IV Concepts of Advertising and its kinds 08 Hours

Structure of an Advertising Agency: Introduction, Overview of an Advertising Agency; Marketing research department; Ancillary Services; Interfacing with Client's Organization; Integration of Services. Advertising Effectiveness; Kinds of Advertising Objectives; The Advertising Communication System, its Process, Advertising Copy and Design strategy, Types of advertising copy; Creativity in Advertising.

UNIT-V Ethics and Budget of Advertising 08 Hours

Advertising Budgets: Introduction, Factors Influencing Budget Setting, Typical Spending Patterns, Common Budgeting Approaches, Budgeting Methods, Decision Support System (DSS), Structure of DSS, Allocating the Marketing Communication Budget. Ethics in Advertising, Introduction, The Advertising Standards Council of India (ASCI); Forms of Ethical Violations; Misleading advertising; Advertising to children, Product endorsements, Stereotyping, Cultural, religious and racial sensitivity in advertising.

Course outcome: At the end of course, the student will be able to

CO 1	Understand the three major influences on customer choice: the process of human decision making in a marketing context; the individual customers make up; the environment in which the customer is embedded.	Understand (K2)
CO 2	Develop the cognitive skills to enable the application of the above knowledge to marketing decision making and activities.	Create (K6)
CO 3	Understand advertising management, its role, importance, types in marketing positioning,	Understand (K2)
CO 4	Develop the understanding of advertising agency advertising effectiveness, types, communication process and design strategy.	Apply (K3)
CO 5	Understand the factors influencing budget setting and ethics related to advertising and consumer behavior.	Evaluate(K5)

- 1. Consumer Behavior, Schiffman, L. G. and Kanuk, L. L. Pearson.
- 2. Kruti Shah & Alan D' Souza: Advertising & promotions an IMC Perspective-McGraw Hill education
- 3. George E Belch & Michael A Belch: Advertising and promotion- An integrated Marketing Communication Perspective-McGraw Hill Education

- 1. Chunawala & Sethia: Foundations of Advertising Theory & Practice; Himalaya Publishing.
- 2. Copley Paul: Marketing Communications Management Concepts & Theories, Cases and Practices; Butterworth Heinemann Publication.

	MBA SECOND	YEAR			
Course Code	AMBABI0311	\mathbf{L}	T	P	Credit
Course Title	ERP Modules	3	1	0	4
Course objecti	ve: Objective of this course is to:	Dur	ation	: 40 H	ours
1 Impart kno	wledge about Enterprise Resource Planning (ERP)			
2 Impart kno	wledge of related technologies				
3 Impart kno	wledge about implementation of ERP				
4 Analyze the	e applications of ERP at operational levels				
5 Analyze th	e applications of ERP at managerial practices				
Pre-requisites:					
	Course Contents / S	Syllabus			
UNIT-I	Introduction to ERP	8He	ours		
Enterprise: Ove	erview of Enterprise Resources & Business F	unctions, Classifications	of Bu	siness	Processe
	ss Management System; Information: Charac				
	stem: Components of an Information System				-
	tive Information System & Management Inf				
•	nd Structuring of Business Processes, Bu	<u> </u>			
	Integrated Enterprise Systems;			6 (21	11). 010
UNIT-II	ERP Technologies	8 H	ours		
	tems and Enterprise Resources Planning (ernrica	System
	dications and ERP, Evolution of ERP System	,		-	•
	Database & Data Warehouse, Data Mining				
		g, On-Line Analytical	11000	ssing,	WOIKIIO
Management Sy UNIT-III	ERP Modules	0 11	ours		
					(7777)
	Finance, Production planning, Sales & Distriction			_	,
•	rol System, Quality Management, Cost Management	•		_	
	n Management and Customer Relationship M	=			
	RP Domains: Sector specific ERP Solutions, I	ntroduction and Charact	eristic	s of SA	AP, BAA
and Oracle ERI					
UNIT-IV	ERP Implementation		ours		
ERP and Valu	e Chain: Impacts of ERP on Value Chain	n (Porter's Value Chair	Mod	lel), C	Competitiv
Advantages of	ERP; Future Directions in ERP: New Trend	s in ERP, ERP to ERP I	I, ER	o and	e-busines
SOA Factors in	n ERP; ERP Implementation: Evaluation an	d Selection of ERP Pacl	cage,	Projec	t Plannin
Testing & En	d User's Training, Post Evaluation and	Maintenance, Issues an	d Cha	illenge	es in ER
_	, Latest ERP Implementation Methodologies			J	
UNIT-V	Post ERP Implementation		ours		
ERP Project To	eam: Composition, Organization and Worki			am. S	uccess at
	in ERP Project. Post ERP Implementation				
	Review, Post Implementation Support,				
Application.	222.10, 1 out implementation support,	Liti Security.IDIII			10100/01
		11 11 4			
Course outcom	16. At the 6NU VI CUILLE THE CHINGHT WIL	I he able to:			
Course outcon	ne: At the end of course, the student wil	be able to:			

(Understand) K2

CO1

Knowledge of ERP Technology and its importance

CO2	Able to analyze the organizational readiness for ERP	(Analyze) K4
CO 3	Able to implement ERP in functional area of businesses and management	(Analyze) K4
CO4	Interpreting the impacts of ERP on business processes	(Evaluate) K5
CO5	Understanding the Market Trends in ERP applications	(Apply) K3

Text Books

- 1. ERP Demystified: Leon, Alexis (McGraw-Hill Education)
- 2. Concepts in Enterprise Resource Planning: Joseph, A. Brady, Ellen, F. Monk and Wangner, Bret J. (Thomson Learning)
- 3. ERP in practice Vaman– TMH

- 1. Daniel E.O'Leary, Enterprise Resource Planning Systems, Cambridge University Press, 2002.
- 2. Ellen Monk, Bret Wagner, Concepts in Enterprise resource planning, Cengage learning, Third edition, 2009.

	MBA SECOND YEAR				
Course Code	AMBABI0312	L	T	P	Credit
Course Title	Machine Learning & Artificial Intelligence	3	1	0	4
Course object	ve: Objective of this course is to:	Dura	tion:	40 Ho	ours
1 Introduce	he basic concepts of machine learning.				
	trong foundation of fundamental concepts in AI.				
3 Help stude	nts to learn the application of machine learning / AI algorithms i	n diffe	rent		
	anagement.				
	student to apply these techniques in application which involve p	ercept	ion,		
reasoning	and learning.				
	Course Contents / Syllabus			0.77	
UNIT-I	Foundation of Machine Learning			8 Ho	
_	ntroduction: Overview, Motivation, Definition & Functionalit				_
	ocessing, Data Cleaning: Missing Values, Noisy Data, (Binn				
-	Human inspection), Inconsistent Data, Data Integration and Tran				
	Aggregation, Dimensionality reduction, Data Compression	n, N	umero	sity	Reduction
	and Concept hierarchy generation.				
	rning (ML) ML Techniques overview Validation Techn				
Feature Reduc	ion/Dimensionality reduction Principal components analysis	(Eigen	value	es, Eig	en vectors
Orthogonality)					
				8 Ho	ours
Classification	Definition, Data Generalization, Analytical Characterization	on, 8	Anal	ysis o	f attribut
relevance, Min	ing Class comparisons, Statistical measures in large Databases,	Statist	ical-B	ased A	Algorithms
Distance-Based	Algorithms, Decision Tree-Based Algorithms.				
	s ID4C4.5 CARTBasic Ensembles methods – Bagging	& boo	sting	and its	s impact of
	ce C5.0 boosting Random forest – Advanced Gradient Boos				1
UNIT-III	Un-Supervised Learning Techniques			8 Ho	ours
	stance measures Different clustering methods (Distance, Den	sity. H	ieraro		
	clustering Dealing with continuous,categorical values i				
	ster K-Medoids k-Mode and density-based clustering Mea				
	Rule mining The applications of Association Rule				
	on Engines, etc A mathematical model for association a		-		
	iles Apriori-Constructs large item sets with mini sup by it	-		_	
	ociation rules Application examples Association analysis vs				_
	rning Applications across IndustriesHealthcare— R				Services—
	—HospitalityCloud Based ML Offerings.	ctan	rinani	ciai	SCI VICCS—
UNIT-IV	Introduction of Artificial Intelligence			8 Ho	allec
		r	AT Tri		
	What is Artificial Intelligence (AI)Definitions, The Foundation Artificial Intelligence Agents and Environments. The Consent				•
	Artificial Intelligence, Agents and Environments, The Concept			•	
	The Structure of Agents, Problem Solving Agents, Computer	1 V 1S1	oii. N	vatural	Languag
Possessing. UNIT-V	Searching & Trends in Artificial Intelligence.			Q II a	allec
O1111- A	Searching & Frence in Artificial Intelligence.			8 Ho	urs

Introduction to Search: Searching for solutions, Uniformed search strategies, Informed search strategies, Local search algorithms and optimistic problems, Adversarial Search, Search for games, Alpha - Beta pruning.

Recent Trends: Neural networks, Reinforcement learning, Emerging NN architectures -- Recurrent Neural Networks, Building recurrent Neural Networks, Long Short-Term Memory, Time Series Forecasting. AI in Cyber security, The Fusion of AI and IoT, Conversational AI& Expert System.

Course outcome: At the end of course, the student will be able to:

CO1	Understand the concepts of data mining & machine learning	(Understand) K2
CO2	Use different machine learning techniques to design AI Machine and enveloping applications for real world problems.	(Apply) K3
CO 3	Use non supervised learning techniques to design and solve AI Issues.	(Apply) K3
CO4	Demonstrate fundamental understanding of artificial intelligence.	(Apply) K3
CO5	Apply basic principles of AI in solution that require problem solving , knowledge presentation and learning.	(Create) K6

Text Books

- 1. Jiawei Han Micheline Kamber Jian Pei, "Data Mining: Concepts and Techniques", Morgan Kaufmann.
- 2. Alex Berson, Stephen J. Smith "Data Warehousing, Data-Mining & OLAP", TMH
- 3. Elaine Rich and Kevin Knight: Artificial Intelligence, Tata McGraw Hill

- 1. Artificial Intelligence: A Modern Approach. Stuart Russell, Peter Norvig, Pearson Education 2nd Edition.
- 2. Elaine Rich and Kevin Knight: Artificial Intelligence, Tata McGraw Hill
- 3. Dan W.Patterson, Introduction to Artificial Intelligence and Expert Systems, PrenticeHall of India
- 4. David W Rolston: Principles of Artificial Intelligence and Expert System Development, McGraw Hill

Course			MBA SECOND YEAR				
000250	Code	AMBA	ABI0313	L	T	P	Credit
Course '	Title	Cloud	& Big Data	3	1	0	4
Course	objectiv	e: Obje	ctive of this course is to:	Durat	tion:40	Hou	rs
1	Provide	estudents	with the fundamentals and essentials of Cloud Computing.				
2	Enable	students t	o start using and adopting Cloud Computing services and tools	in thei	ir real lif	e scena	rios.
3	Understand the importance of information management for a business organization.						
4	Provide	e basic kn	owledge on Big Data.				
			Course Contents / Syllabus				
UNIT-I			Introduction to Cloud Computing			8 Hot	ırs
demand	Provisio		Distributed Computing –Cloud Characteristics – Ela	asticit			
UNIT-II			Cloud Architecture, Services and Storage. Eure Design – NIST Cloud Computing Reference Architecture	<u> </u>		3 Ho	
			S – PaaS – SaaS – Architectural Design Challenges – of Cloud Storage – Cloud Storage (Block Vs Object				
UNIT-II	II		Cloud Enabling Technologies			8 Ho	urs
Service	Oriented	. A 1 *.	· DEGE 10 · CO · W110 ·		N 1 1' 1	α 1	
Posice o			ecture – REST and Systems of Systems – Web Service				
Structure	f Virtual es – Too	lization - ls and M	ecture – REST and Systems of Systems – Web Servic – Types of Virtualization – Implementation Levels of Mechanisms – Virtualization of CPU – Memory – I/O and Disaster Recovery	Virtu	ıalizati		
Structure	f Virtual es – Too ization S	lization - ls and M	 Types of Virtualization – Implementation Levels of Mechanisms – Virtualization of CPU – Memory – I/O 	Virtu	ıalizati ices –		⁷ irtualizatio
Virtuali UNIT-I Inter Cle Global E	f Virtual es – Too ization S V oud Res Exchange	lization list and Mupport a source Muppo	- Types of Virtualization - Implementation Levels of Mechanisms - Virtualization of CPU - Memory - I/O and Disaster Recovery	Virtu Devi ce Pro Chall	ualizationices — ovision lenges	on – V 8 Hou ing M – Soft	Virtualizatio urs Iethods — ware-as-a
Virtuali UNIT-I Inter Cle Global E	f Virtual es – Too ization S V oud Res Exchange Security	lization list and Mupport a source Muppo	Types of Virtualization - Implementation Levels of Mechanisms - Virtualization of CPU - Memory - I/O and Disaster Recovery Resource Management and Security in Cloud Management - Resource Provisioning and Resource and Resource - Security Overview - Cloud Security	Virtu Devi ce Pro Chall	ualization ices – ovision lenges rity Sta	on – V 8 Hou ing M – Soft	virtualizatio urs lethods — ware-as-a s.
Virtuali UNIT-IV Inter Cle Global E Service S UNIT-V Introduc Environi – Federa	f Virtual es – Too ization S V oud Res Exchange Security tion to B ment for ted Serv	lization lis and Mupport a source Muppor	Types of Virtualization—Implementation Levels of Mechanisms — Virtualization of CPU — Memory — I/O and Disaster Recovery Resource Management and Security in Cloud Management — Resource Provisioning and Resource and Resource — Virtual Machine Security — IAM — Cloud technologies and Advancements 5 V's of Big Data & Hadoop — Virtual Box — Goog App Engine — Open Stack — Federation in the Cloud Applications — Future of Federation. Research Trend	Virtu Devi Ce Pro Chall Secur gle Aj d – Fo	ovision lenges rity Sta	8 Houing M Soft Soft Indard Houine - I	virtualizatio urs Iethods — ware-as-a s. urs Programmin
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CO 4	Gain knowledge about the security in Cloud Computing.	(Apply) K3
CO 5	Learn the application of recent Cloud Technologies	(Analyze) K4
Text bo	ooks	

- 1. Kai Hwang, Geoffrey C. Fox, Jack G. Dongarra, "Distributed and Cloud Computing, From Parallel Processing to the Internet of Things", Morgan Kaufmann Publishers, 2012.
- 2. Rittinghouse, John W., and James F. Ransome, —Cloud Computing: Implementation, Management and Security, CRC Press, 2017
- 3. RajkumarBuyya, Christian Vecchiola, S. ThamaraiSelvi, —Mastering Cloud Computing, Tata Mcgraw Hill, 2013.
- 4. Toby Velte, Anthony Velte, Robert Elsenpeter, "Cloud Computing A Practical Approach, Tata Mcgraw Hill, 2009
- 5. George Reese, "Cloud Application Architectures: Building Applications and Infrastructure in the Cloud: Transactional Systems for EC2 and Beyond (Theory in Practice), O'Reilly, 2009.

- 1. Rhoton, John; Cloud Computing Explained: Implementation Handbook for Enterprises; Kindle Edition
- 2. Linthicum, David S.; Cloud Computing and SOA Convergence in your Enterprise: A StepbyStep Guide; Addison Wesley Information Technology Series

Course Name: MBA/Second Year-Semester 3					
Course Code	AMBALS0312	L	T	P	Credit
Course Title	Supply chain Planning and Demand Forecasting	3	0	0	3
Course Objective: Objective of this course is to: Duration: 40 Hours					

To provide fundamental understanding about the planning in Supply Chain Management and create strategies through demand forecasting.

Course Contents / Syllabus

	v	
UNIT-I	Fundamentals of Supply Chain Planning	8 Hours

Introduction, meaning and Components of Supply Chain Planning, Evolution Management and Latest Trends in Supply Chain Management, Understanding Logistics and Total Cost Management, Integrated Logistics Management. Introduction to Supply Chain Structures and Supply Chain Strategies. Supply Chain Operations Reference Model (SCOR), Case Studies and Latest Updates.

UNIT-II	Supply Chain Strategies	9 Hours

Preparing the Supply Chain Strategy, Stages and Performance Attributes of Supply Chain Strategy, Process Drivers of Supply Chain Performance, Supply Chain Strategy Matrix, Concept of Supply Chain Strategic Fit, Supply Chain Strategy Performance Metrics, Supply Chain Strategy. Risk Management. SCRM Maturity Model, Case Studies and Latest Updates.

UNIT-III Agility in Supply Chain and Lean Thinking	7 Hours
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The Concept of Agility in Supply Chain. Agile Drivers and Practices in Supply Chain- Joint Decision, End Customer First, Shared Goal. Inter firm Planning and Control for Supply Chain. Application of Lean Thinking to Business Processes and Supply Chain. Case Studies and Latest Update.

UNIT-IV Demand Management in SCM 9 Hours

Components of Demand Management, Formulating Demand Strategies, Demand Planning. Developing the Demand Forecast, Creating the Supply Plan, Balancing the Demand and Supply Plans of Production, Implementing Sales and Operations Planning (S&OP) Grid in SCM. Case Studies and Latest Updates.

UNIT-V	Integrating the Supply Chain	7 Hours
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Internal Integration- Function to Function. Intercompany Integration, Electronic Integration, Efficient Customer Response (ECR) in Supply Chain. Collaborative Planning, Forecasting and Replenishment, Overview of JIT and Quick Response. Enabling Sustainability in Supply Chain Strategy. Case Studies and Latest Updates.

Course	Course outcome: At the end of course, the student will be able to:				
CO1	Understand various fundamentals for effective Supply Chain Planning.	Understanding (K2)			
CO2	Analyse various risk involved in Supply Chain Management.	Analysing (K4)			
CO3	Understand the concept of agility in supply chain and application of lean thinking.	Understanding (K2)			
CO4	Apply various techniques of planning and forecasting of demand in real world.	Applying (K3)			
CO5	Understand the integration of the Supply Chain with business processes.	Understanding (K2)			

Text Books:

- 3. Ross, D.F. Distribution Planning and Control- Managing in the Era of Supply Chain Management. Springer
- 4. Meredith, J. R., & Shafer, S. M. (2023). Operations and supply chain management for MBA. John Wiley & Sons.
- 5. Foster, S. T., & Gardner, J. W. (2022). Managing quality: Integrating the supply chain. John Wiley & Sons.

Reference Books:

- 4. Ivanov, D., Tsipoulanidis, A., & Schönberger, J. (2019). Global supply chain and operations management: A decision-oriented introduction to the creation of value (Vol. 2). Cham, Switzerland: Springer International Publishing.
- 5. Leeman, J. J. (2020). Supply Chain Management: Fast, Flexible Supply Chain in Manufacturing and Retailing--. BoD–Books on Demand.
- 6. Phadnis, S. S., Sheffi, Y., & Caplice, C. (2022). Strategic Planning for Dynamic Supply Chains: Preparing for Uncertainty Using Scenarios. Palgrave Macmillan.
- 7. Rushton, A., Croucher, P., & Baker, P. (2022). The handbook of logistics and distribution management: Understanding the supply chain. Kogan Page Publishers.

Links:

- 1. https://youtu.be/sWdmGcaTras
- 2. https://youtu.be/geadkAL5YwY
- 3. https://youtu.be/Q35AsGJmCAM
- 4. https://youtu.be/pQBOR8E3Sh4

Course Name: MBA/Second Year- Semester 3						
Course Code	AMBALS0311	L	T	P	Credit	
Course Title	Procurement and Vendor Development	3	0	0	3	
Course Objective: Objective of this course is to: Duration: 40 Hours						

To give an understanding of domestic and international procurement and sourcing strategies in Supply Chain Management.

Course Contents / Syllabus

UNIT-I Framework of Procurement Management 8 Hours

Introduction to Sourcing, Sourcing v/s Procurement, Introduction to Purchasing and Supply Chain Management, Purchasing Process, Purchasing Policies & Procedures, 8 R's of Purchasing, Role of a Purchase Manager. Risks associated with purchasing process and its mitigation, Placing Orders, Budgets and Expense Allocation, Make or buy decision. Types and Methods of Sourcing in Retail, Organising for purchase, Case Studies.

UNIT-II Buying Process 9 Hours

Fundamental Steps of the Buying Process, Terms and Condition of Purchase, Buying Documentation, Negotiation in Procurement, Use of IT in Sourcing, Global Tenders and E-Procurement, Reverse Auctions, Overview of Global Purchasing, Case Studies. Terms and Condition of Purchase, Buying Documentation, Negotiation in Procurement, Use of IT in Sourcing, Global Tenders and E-Procurement, Reverse Auctions, Overview of Global Purchasing, Case Studies and Latest Updates.

UNIT-III Vendor Selection 7 Hours

Vendor Selection Process, Evaluation of Existing Vendors, Vendor quality management: Vendor management and development – Vendor performance measurement. Rationalization and optimization: Creating a manageable supply base., New Vendor Development Process, Managing Quality in Sourcing, Key Supplier Account Management, Vendor Relationship Development, Vendor Monitoring, Promoting SME suppliers. Case Studies.

UNIT-IV Aligning Inventory Objectives with Procurement 9 Hours

Integrating the objectives of purchasing management and Material Management with Supply Chain, Role of purchasing in Supporting Inventory Objectives. A structured approach to cost reduction - Price analysis - Cost analysis techniques - Total cost of ownership - Collaborative approaches to cost management, Hedging vs. Forward Buying, Managing Price Fluctuation and Volatility in International Finance, Payment Modes, Matching Supply with Customer Demand, Managing Inward Logistics. Case Studies

UNIT-V Global Procurement Management 7 Hours

Global Trade Barriers, Dealing with International Suppliers, UNO and GATT conventions, Legal, Socio-Cultural Issues in International Buying Environmental Issues & Green Purchasing, Industry Best Practices, Measurement of Sourcing Performance, Benchmarking in Retail Purchasing. Case Studies.

Course	Course outcome: At the end of course, the student will be able to:				
CO1	Understand the framework of procurement for SCM	Understanding (K2)			
CO2	Understand the buying process and documentation required for effective SCM	Understanding (K2)			
CO3	Apply vendor selection processes in SCM and Logistics	Applying (K3)			
CO4	Apply techniques of inventory management with procurement	Applying (K3)			
CO5	Analyse different issues and best practices for global procurement	Analysing (K4)			

- 1. Sollish, F. and Semanch, J. Strategic Global Sourcing: Best Practices. Wiley Publications
- 2. Chopra and Miendl. Supply Chain Management: Strategy, planning and operation. Pearson Books

Reference Books

- 1. Gordon. S. R. Supplier Evaluation and Performance Excellence: A Guide to Meaningful Metrics and Successful Results.
- 2. Sahay B.S. Emerging Issues in Supply Chain Management. McMillan
- 3. Harrison A. Logistics Management and Strategy. Pearson

Links:

https://youtu.be/Hsq-oqlLP0A

https://youtu.be/2v19C_BTYdE

https://youtu.be/a2n10AbEwxg

Course Name: MBA Second Year / Semester 3					
Course Code	AMBALS0313	L	T	P	Credit
Course Title	Warehouse and Distribution Management	3	0	0	3
Course Objecti	Course Objective: Objective of this course is to: Duration: 40 Hours				

To provide in-depth understanding of Warehouse Management and distribution channels in Supply Chain with basic understanding of various modes of transportations and its uses.

Course Contents / Syllabus

UNIT-I	Warehouse Management	8 Hours

Importance of Warehousing and Warehousing Functions, Types of Warehouses, Specialized Warehouse Services, Developing Warehouse Strategies Order Picking and Shipping, Receiving and Stocking, Sizing the Warehouse, Warehouse Layout & Automation.

UNIT-II Warehouse Management Process 8 Hours

Picking Strategies and Equipment, Order Picking Receiving and Put Away, Replenishment, Stock Counting, Cycle Counting, Return Processing and Dispatch, Documentations.

UNIT-III Warehouse Costs and Performance Management 8 Hours

Costs in Warehousing, Return on Investment, Traditional vs Activity Based Costing, Logistics Charging Methods, Selecting appropriate Performance Measures, Integrated Performance Model, Benchmarking, Balanced Scorecard, Health and Safety issues in Warehousing.

UNIT-IV	Distribution Management	8 Hours

Distribution Function, Basic Supply Chain Distribution Formats, Alternative Distribution Channel Formats, Role of Distribution Channels, Service Outputs and Functions of Distribution Channels, Transaction Flows, Inventory Flows, Substituting Information for Inventory, Sustainability in Distribution.

UNIT-V	Modes of Transportation	8 Hours

Modes of Transport-Rail, Road, Water, Air, Pipeline with their Characteristics and Cost Structure, Carrier Selection Decision, Determinants of Carrier Selection, Legal Classification of Carriers, Role of Couriers as Carriers. Transportation Costs - Fixed, Variable, Joint and Common Costs, Product Related & Market Related Factors Influencing Transport Cost.

Course	Course outcome: At the end of course, the student will be able to:				
CO1	Analyze the need for warehouses and its applications with real world problems	Analyze (K4)			
CO3	Implement Processes for Effective Warehouse Management and Aligning it with SCM Strategy	Apply (K3)			
CO3	Evaluate the Cost and Performance Factors in Warehouse Management.	Evaluate (K5)			
CO4	Analyze various Distribution Management Channels for Effective SCM and Logistics	Analyze (K4)			
CO5	Analyze the requirement and useof Various Modes of Transportations	Analyze (K4)			

- 1. Ross, D. F. (2019) Distribution Planning and Control Managing in the Era of Supply Chain Management.Springer
- 2. RichardG. (2018) Warehouse Management: A Complete Guide to Improving Efficiency and Minimizing Costs in the Modern Warehouse. Kogan Press

Reference Books

- 1. Bowersox, D. J. &Closs D. J. (2019). Logistical Management. Tata McGraw Hill Publishing Co. Ltd
- 2. Waters, D. (2020): Logistics. Palgrave Macmillan

Links:

https://www.youtube.com/watch?v=IMPbKVb8y8s

https://supplychainhandbook.jsi.com/wp-

content/uploads/2017/01/JSI_Supply_Chain_Manager's_Handbook_Chpt.8_Final.pdf

Course Name: MBA Second Year/Semester 3						
Course Code	AMBABA0312	L	T	P	Credit	
Course Title	Introduction to Data Science	3	0	0	3	
Course Objective: Objective of this course is to: Duration: 40 Hours						

The objective of this course is to make students understand the fundamental concepts of Data Science, various types of data and ways to handle data in different formats. This course will also help in giving the overview of data mining and data warehousing. Besides this, students will learn and execute exploratory data analysis.

Course Contents / Syllabus

UNIT-I Overview of Data Science 8 Hours

Introduction to Data Science, Skill sets needed, types of Data Analysis, and technologies, Need for Data Science, Evolution and Future of Data Science. Data Science Tools, Crowd-sourcing analytics, Data Security Issues, Analysis Vs Analytics Vs Reporting. Big Data-Meaning, the 5 V's, Big Data Ecosystem, Applications of Data Science in various fields Use cases -Amazon, Walmart, Airbus, Netflix.

UNIT-II Data Handling 8 Hours

Types of data – structured, unstructured, categorical, numeric, social network data, spatial data. Data Classification, Data Manipulation in different formats.

UNIT-III Data Mining 8 Hours

Meaning, need and forms of Data Pre-processing, understanding and extracting useful variables, KDD Process. Data Cleaning - handling missing data, outliers, Data Integration and Transformation, Data Reduction.

UNIT-IV Exploratory Data Analysis 8 Hours

Principal Component Analysis (PCA), Factor Analysis (FA) and Linear Discriminant Analysis (LDA), Univariate and Multivariate Exploratory Data Analysis.

UNIT-V Data Visualisation 8 Hours

Bar plot, Plotting categorical data, Stacked bar plot, Histogram, plot () function and line plot, pie chart / 3D pie chart, Scatter plot, Box plot, Heat Map, Mosaic Map, Map Visualization, 3D Graphs, Correlogram, Q-Q plots, Visualization of Geospatial Data.

Course outcome: At the end of course, the student will be able to:					
CO1	Understand the concepts of data science in the business.	Understanding (K2)			
CO2	Identify and analyse the various forms of data and its	Analyse (K4)			

	related concepts.	
CO3	Apply data pre-processing techniques to clean the data.	Apply (K3)
CO4	Analyse and evaluate data using exploratory data analysis.	Evaluate (K5)
CO5	Understand and apply the data visualization techniques.	Apply (K3)

- 1. Fan, J., Li, R., Zhang, C. H., & Zou, H. (2020). Statistical foundations of data science. CRC press.
- 2. Van Der Aalst, W. (2016). Process mining: data science in action (Vol. 2). Heidelberg: Springer

Reference Books

- 1. Igual, L., Seguí, S., Igual, L., & Seguí, S. (2017). Introduction to data science (pp. 1-4). Springer International Publishing.
- 2. Cielen, D., & Meysman, A. (2016). Introducing data science: big data, machine learning, and more, using Python tools. Simon and Schuster.
- 3. Kotu, V., & Deshpande, B. (2018). Data science: concepts and practice. Morgan Kaufmann.

Links:

- 1. https://www.youtube.com/watch?v=X3paOmcrTjQ
- 2. https://www.youtube.com/watch?v=QiqZliDXCCg
- 3. https://www.youtube.com/watch?v=BiGd8y5XB-Y

Course Name: MBA Second Year /Semester 3						
Course Code	AMBABA0311	L	T	P	Credit	
Course Title	Business Intelligence and Data Warehousing	3	0	0	3	
Course Objective: Objective of this course is to: Duration: 40 Hours						

The objective of this course is to make students understand the fundamentals of data warehousing and business Intelligence making them able to create dimensional models.

Course Contents / Syllabus

UNIT-I Introduction to BI and Data Warehousing 8 Hours

Definition of Business Intelligence (BI), Evolution of BI, Drivers for BI and DW, BI component Framework and Architectures. Data Warehousing (DW) and Corporate Performance Management (CPM), Need for Warehouse, Role of DSS, EIS, MIS and dashboards.

UNIT-II Digital Data 8 Hours

Structured data, Unstructured Data, Managing and storing unstructured data, Storage Challenges of Unstructured Data, Extraction of information from unstructured data, UIM Architecture for unstructured data. Sources of Semi Structured Data. Managing, Storing and extracting information from semi-structured data, XML as a solution for Semi-structured data.

UNIT-III OLAP and OLTP 8 Hours

OLTP Advantages, challenges, Shortcomings of OLTP. OLAP, Dimensions of Data -One Dimensional, Two Dimensional and Three-Dimensional Data, Beyond Third Dimension, MOLAP, ROLAP, HOLAP, OLAP versus OLTP, Data Models for OLAP and OLTP, OLAP Operations on multi-dimensional data: Slicing, Dicing, Roll Up, Drill Down, Drill Across, Drill Through.

UNIT-IV Data Integration 8 Hours

Data Mart, ODS, Kimball's approach versus Inmon's approach to Data warehousing, Goals of Data Warehouse, Data Sources for Data Warehouse, ETL, Data mapping, data staging, Approaches to Data integration, needs and advantages, Data Integration Technologies, Data Quality, maintaining data quality, Data Profiling.

UNIT-V Multi-Dimensional Data Modelling 8 Hours

Entity, Attribute, Cardinality, Conceptual data model, Logical data model, Physical model, Normalization modelling, Dimensional Modelling, Fact Table, Dimension Table, Hierarchies and Types, Star and Snowflake Schema, MS Excel 2010 Based Activity, Performance Management & Enterprise Reporting – Measures, Metrics, KPIs.

Course outcome: At the end of course, the student will be able to:

CO1	Understand the basic concepts of Business Intelligence and Data Warehousing.	Understanding (K2)
CO2	Analyzing the various forms of digital data.	Analyzing (K4)
CO3	Apply the OLTP and OLAP-related concepts.	Applying (K3)
CO4	Apply the data integration approaches in decision-making.	Applying (K3)
CO5	Designing the multi-dimensional model using Excel.	Creating (K6)

- 1. Collier, K. (2012). Agile analytics: A value-driven approach to business intelligence and data warehousing. Addison-Wesley.
- 2. Olszak, C. M. (2020). Business intelligence and big data: Drivers of organizational success. CRC press.

Reference Books

- 1. Sabherwal, R., & Becerra-Fernandez, I. (2013). Business intelligence: Practices, technologies, and management. John Wiley & Sons.
- 2. Dietrich, B. L., Plachy, E. C., & Norton, M. F. (2014). Analytics across the enterprise: How IBM realizes business value from big data and analytics. IBM Press.

Link

- 1. https://www.sciencedirect.com/science/article/pii/S1672022921001637
- 2. https://www.emerald.com/insight/content/doi/10.1108/EMJB-01-2022-0011/full/html
- 3. https://www.youtube.com/watch?v=lJ1SbMWFpGs
- 4. https://www.youtube.com/watch?v=dRG5JP6zxck

	Course Name: MBA First Year/	Semester 3			
Course Code	AMBABA0313	L	T	P	Credit
Course Title	Predictive Analytics	3	0	0	3
Course Object	ive: Objective of this course is to:	Dui	ation:	40 H	ours

The objective of this course is to make students understand the fundamental concepts of predictive analytics and also make student able to make predictive models. This course will enable them to apply predive analytics techniques.

Course Contents / Syllabus

UNIT-I Overview of Predictive Analytics 6 Hours

Concept of predictive Analytics, Supervised and Unsupervised Learning, Predictive Analytics Vs Business Intelligence, Challenges in using Predictive Analytics, Application of predictive Analytics, CRISP-DM.

UNIT-II Data Understanding 7 Hours

Variable understanding- categorical, continuous, flag, Boolean, integer. Mean, median, standard deviation, normal distribution, variable summary, data visualization.

UNIT-III Data Preparation 8 Hours

Variable cleaning, Data Audit, Data Cleaning: Missing Values, Noisy Data, Bayesian network. Binning, Clustering, Regression, Inconsistent Data, Data Integration and Transformation.

UNIT-IV Modelling and Deployment 8 Hours

Partitioning The Data - Training, Validation & Testing, Model selection- Decision Tree, Logistic Regression, K Nearest Neighbour, Naïve Bayes, SVM, Neural Network. General deployment considerations, Deployment Steps, Case studies.

UNIT-V Forecasting and Time Series Analysis 7 Hours

Time Series Analysis, Objectives of Time Series Analysis, Time Series Data, Time Series Patterns. ARMA Processes, Forecasting Stationary Time Series: The Durbin–Levinson Algorithm, The Innovations Algorithm, ARMA Models, Forecasting ARMA Processes. ARIMA Models for Nonstationary Time Series, Forecasting ARIMA Models- The Forecast Function.

Course	Course outcome: At the end of course, the student will be able to:							
CO1	Understand the concept of predictive analytics.	Understanding (K2)						
CO2	Understand and comprehend the data summary.	Applying (K3)						
CO3	Apply data preparation techniques.	Applying (K3)						
CO4	Develop and deploy a predictive model for a given problem.	Creating (K6)						
CO5	Analyze the forecasting and time series analysis functions and models.	Analyze (K4)						

- 1. Larose, D. T. (2015). Data mining and predictive analytics. John Wiley & Sons.
- 2. Siegel, E. (2013). Predictive analytics: The power to predict who will click, buy, lie, or die. John Wiley & Sons.
- 3. Kuhn, M., & Johnson, K. (2013). Applied predictive modeling (Vol. 26, p. 13). New York: Springer.

Reference Books

- 1. McCarthy, R. V., McCarthy, M. M., Ceccucci, W., Halawi, L., McCarthy, R. V., McCarthy, M. M.,
- ... & Halawi, L. (2022). Applying predictive analytics (pp. 89-121). Springer International Publishing.
- 2. Miller, T. W. (2015). Modeling techniques in predictive analytics: business problems and solutions with R. Pearson Education.

Link

- 1. https://www.youtube.com/watch?v=4y6fUC56KPw
- 2. https://www.youtube.com/watch?v=reUZRyXxUs4
- 3. https://www.youtube.com/watch?v=Q2AFVafpRJA
- 4. https://www.youtube.com/watch?v=yN7ypxC7838

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UNIT-II			oject Ide																				8 H	lours	
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UNIT-III		Bu	idgeting	the P	Proj	jec	ct															0	8 H	lours	
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Course outcome	e: At	t the	end of o	cour	rse,	e, tl	the	e st	tud	deı	nt	wil	l b	e al	ble	to:									

CO 1	Understand the basic concepts and characteristics of Project and Project manager, management	Understanding (K2)
CO 2	Understand the roles and responsibilities along with tools & techniques used in Project management	Evaluating (K5)
CO 3	Develop confident to take up any kind of projects	Evaluating (K5)
CO 4	Students will understand the scheduling and monitoring process in Project. They will be able to apply PERT and CPM method for project scheduling	Applying (K3)
CO 5	Students will understand the perspectives in which optimum decisions are to be taken in case of risks with planned activities in project	Creating (K6)

- 1. Project Management- A Managerial Approach: Jack R. Meredith Broyhill Samuel J. Mantel, Jr (John Wiley & Sons)
- 2. Samuel J. Mantel, Jr, Jack R. Meredith, Scott M. Shafer, Margaret M. Sutton, M.R. Gopalan, "Project Management Core Textbook" First Indian Edition (2006), Wiley India publication, 2011.

- 1. Project- Preparation, Appraisal, Budgeting and Implementation: Chandra Prasanna (TMH)
- 2. Clifford Gray, Erik Larson and Gautam Desai, Project Management, The Managerial Process, 4th edition, Tata McGraw Hill 2012
- 3. Project Management Core Text Book : M R Gopalan (Wiley)
- 4. Quantitative Techniques in Management : N D Vohra (TMH)

	MBA SECOND YEAR										
Course Code		AMBA0459	L	T	P	Credit					
Course Title		Research Project Report	0	0	6	3					
Cours	Course objective: Objective of this project is to:				Duration: 20 Contact Hours						
1	1 Educate regarding research designs and the research process.										
2	Develop the ability to analyze research reports (from scholarly ar conclusions, and format the article's bibliographic citation using correct A				key poi	nts, cite the					
3	3 Help the students to develop and present the design of data collection and ability to interpret the data as per the sample collected										
Comprehend and apply various statistical tools for data analysis and its interpretation.					n.						

Research Project Report (RPR) In fourth semester, the candidates will have to submit a Research Project Report on a problem/topic (from the specialization areas) to be assigned by the MBA department under the supervision of a core faculty member of the department.

- The Research Project Report will carry 200 marks.
- The evaluation of the project report will be done by **two** examiners (external & internal).
- The evaluation will consist of (1) Evaluation of Project Report (2) Presentation and Viva Voce.
- The evaluation of Project Report will comprise of 100 marks and would be evaluated by the internal guide.
- The evaluation of Viva Voce of Project would comprise of 100 marks and would be evaluated by two examiners (1 external and 1 internal).

The average of the marks awarded by the 2 examiners during the End Semester Viva voce will be taken into account for the results.

The report will contain:

- The objectives and scope of the study.
- Research Methodology,
- Use and importance of the study,
- Analysis of data collected, Findings and interpretation,
- Conclusions and recommendations.
- Satisfactory completion of minimum 1 'Research Publication' in a listed Journal is mandatory for award of degree.

It will contain relevant charts, diagrams and bibliography.

A certificate of the supervisor and the Head of the MBA program certifying the authenticity of the report shall be attached therewith.

The student will submit two copies of the report to the Head of MBA program. The number of pages in the report will be minimum 75 or more. The report should be typed in A-4 size paper.

The scheme of evaluation for **Research Project Report** are as follows:

Criteria: Internal 100 Marks

- Relevance of Objectives with topic (20)
- Relevance of Research Methodology(20)
- Interpretation & Analysis (20)
- Project Report (20)
- Paper Publication in Journal of Repute (20)

The scheme of evaluation of **Viva voce**

Criteria: External 100 Marks

- Understanding of Objectives with topic (20)
- Understanding of the relevance of Research (20)

- Interpretation & Analysis (20)
- Presentation & Communication skills (20)
- Query Handling (20)

REPORT STRUCTURE

Front Page

Undertaking Certificate

Acknowledgement

Abstract

List of Contents

List of Figures

List of Tables

Chapter 1: Introduction- Objective of the study

- 1.1. Problem Definition
- 1.2. Overview of the Proposed Approach
- 1.3. Motivation behind the Proposed Approach
- 1.4. Organization of the Report

Chapter 2: Literature Review

Chapter 3: Research Methodology

Chapter 4: Data Analysis and Interpretation

Chapter 5: Findings, Recommendation and Conclusion

References

Appendix (Attach Research Paper with front page of the Journal in which it is Published)

Course outcome: At the end of course, the student will be able

CO 1	The student will demonstrate cognitive knowledge of research designs and the research process in general.	Understanding (K2)
CO 2	The student will demonstrate the ability to analyze research reports (from scholarly articles) synthesize key points, cite the conclusions, and format the article's bibliographic citation using correct APA format.	Evaluating (K5)
CO 3	The student will be able to design an original research project, including an instrument for data collection, achieving a level of proficiency according to the assessment rubrics provided for each section of the proposal.	Creating (K6)
CO 4	The student will be able to defend his project with clarity in presentation and analysis.	Analyze(K4), Creating (K6)

Text books

- 1. Malhotra Naresh K.: Marketing Research: An Applied Orientation (Pearson, 7th Edition 2019)
- 2. Kothari C.R., Garg Gaurav.: Research Methodology-Methods and Techniques (New Age International)
- 3. Bryman Alan, Bell Emma, & Harley Bill: Business Research Methods (Oxford University Press)

			MBA SECOND YEAR					
Course	Code	AMBA	AFM0411	L	T	P	Credi	t
Course	Title	Financ	cial Modeling	3	1	0	4	
Course	objective	: Obje	ctive of this course is to:	Dura	tion: 4	l0 Ho	urs	
1	Equip the	student	with the knowledge of valuation in firm.	1				
2	Develop t	he abilit	y to use MS Excel for financial modeling through variou	s formulae				
3	Make the	students	capable of conducting financial statement analysis indep	pendently.				
4	Develop ratio ana		pility for assessing and forecasting project rec	quirement	and co	nducti	ing	
5	Conduct	the eq	uity research modeling for investment					
Pre-requ	uisites: K	nowled	ge of Financial statement analysis, Basic MS-I	Excel, Fina	ncial n	narket	S	
			Course Contents / Syllabus					
UNIT-I			Valuation				Hours	8
transacti	ons, Disc flow, Fo	ounted	ransactions Analysis:Selecting comparable to Cash Flow (DCF) analysis:Understanding ung terminal value, Present value and discounting Basic Excel for Financial Modeling	nlevered fr				ing
		1.01		1.0	. (71			
	_		ets, Use of Excel Formula Function, Data Fil				-	
			rio building, Lookups: Vlookup Match & offso	et, pivot ta	bles. P	ortfoli	o Models,	
Matrix ()perations	and D	ata Tables.					
UNIT-I	II		Financial Statement Analysis				Hours:	8
statemen	it, Project	ing the	al Statement Analysis Financial Reporting balance sheet, Projecting the cash flow state		-	_	g the inco	me
UNIT-I		r moae	ling, Financial Statement Application					
Ratio an	alvsis of i	er mode	ling, Financial Statement Application Financial Ratios & Project Finance					est
			Financial Ratios & Project Finance	eparation (of Fina		Hours: 8	est
TO POIL OI	•	ndustri	Financial Ratios & Project Finance es, Dupont Analysis, Peer to peer analysis, Pr	-		ncial A	Hours: 8 Analysis	est
-	n an indus	ndustri try. Pro	Financial Ratios & Project Finance es, Dupont Analysis, Peer to peer analysis, Project evaluation; stage of project; construction &	-		ncial A	Hours: 8 Analysis	est
-	n an indus ring inves	ndustri try. Pro	Financial Ratios & Project Finance es, Dupont Analysis, Peer to peer analysis, Project evaluation; stage of project; construction of the construct	-		ncial A	Hours: 8 Analysis	rest
UNIT-V Introduc Sensitivi	n an industring investion to Equator to Equator to Equator 2.	ndustri try. Pro tment p quity A sis, Scr	Financial Ratios & Project Finance es, Dupont Analysis, Peer to peer analysis, Project evaluation; stage of project; construction &	& developr	nent pl	ncial Anase; f	Hours: 8 Analysis unding & Hours: 8 PE Analys	rest
UNIT-V Introduc Sensitivi financial	n an industring investion to Equator to Equator to Equator 2.	ndustri try. Pro tment p quity A sis, Scr	es, Dupont Analysis, Peer to peer analysis, Project evaluation; stage of project; construction of the chase; Cash flow waterfall Equity Research Modeling malysis & Investing Evaluating Business Modeling Stocks for investment: Cloning & Fil	& developmel & Industraters, Impa	nent pl	ncial Anase; f	Hours: 8 Analysis unding & Hours: 8 PE Analys	rest
UNIT-V Introduc Sensitivi	tion to Equity Analysis, Psycho	ndustri try. Pro tment p quity A sis, Scr logy of	es, Dupont Analysis, Peer to peer analysis, Project evaluation; stage of project; construction of the chase; Cash flow waterfall Equity Research Modeling malysis & Investing Evaluating Business Modeling Stocks for investment: Cloning & File Investment.	& developmel & Industraters, Impa	ry Ana	ncial Anase; f	Hours: 8 Analysis unding & Hours: 8 PE Analysis ate actions	rest
UNIT-V Introduc Sensitivi financial	tion to Ecty Analysis, Psycho outcome: Understanfirms.	ndustri try. Pro tment p quity A sis, Scr logy of At ad and ap	es, Dupont Analysis, Peer to peer analysis, Project evaluation; stage of project; construction of the seed of the	& developmed & Industraters, Impa	ry Anact of c	ncial Anase; f	Hours: 8 Analysis unding & Hours: 8 PE Analysis ate actions	rest

CO 4	Project &evaluate the requirements in managing the projects.	Analyse (K4), Evaluate (K6)						
CO 5	Apply & use various tools and models for equity research.	Apply (K3)						
Text boo	oks							
1.	1. Sengupta C, Financial Analysis and Modeling using Excel and VBA, Wiley, 2nd Ed							
2. Corpo	Thomas S Y Ho & Sang Bin Lee, The Oxford Guide to Financial Morate Finance, Risk Management and Financial Institutions, Oxford University							
Referen	ce Books							
2.	Bodmer E, Corporate and Project Finance Modeling: Theory and Practic	ce (Wiley Finance)						
3. 3 rd Ed	Swan J, Practical Financial Modelling: The Development and Audit of C	Cash Flow Models, Butterworth-Heinemann,						

		MBA SECOND YEAR				
Cours	se Code	AMBAFM0412	L	T	P	Credit
Course Title		Working Capital Management	3	1	0	4
Course objective: Objective of this course is to:		e: Objective of this course is to:	Dura	ation:	40 Ho	urs
1	Have a bas	sic understanding of working capital and assessing its requirement.				
2	Learn how	to manage cash and other liquid assets.				
3	Learn and	apply efficient techniques to manage and utilize the inventories.				
4	Develop	a clear understanding and practicing regarding receivab	oles of the o	organiz	zation.	
5	Make the	e student equip with the knowledge of financing the w	orking cap	ital fro	om dif	ferent
	financing	g sources.				
Pre-re	equisites: S	Student should have knowledge of accounting and finar	icial manag	gement	Ī	
		Course Contents / Syllabus				
UNIT	'-I	Introduction to Working Capital				Hours:
Nature	e, Scope ar	nd Definition of Working Capital, Types of working Ca	apital, Dete	rmina	nts of	working
canita	l Worki	ng Capital Cycle Assessment an Computation of	- Working ('anital	Regu	irement

Nature, Scope and Definition of Working Capital, Types of working Capital, Determinants of working capital , Working Capital Cycle, Assessment an Computation of Working Capital Requirement, Profitability–Liquidity trade-off, Working Capital Policy - Aggressive & Defensive. Overview of Working Capital Management

UNIT-II Cash & Marketable Securities Management Hours:8

Meaning of Cash, Motives for holding cash, objectives of cash management, factors determining cash needs, Cash Management Models, Cash Budget, Cash Management: basic strategies, techniques and processes, Lock Box system and concentration banking, compensating balances; Marketable Securities: Concept, types, reasons for holding marketable securities, alternative strategies, choice of securities; Cash Management Practices in India.

UNIT-III Receivables Management Hours:8

Receivables: Nature & cost of maintaining receivables, objectives of receivables management, factors affecting size of receivables, policies for managing accounts receivables, determination of potential credit policy including credit analysis, credit standards, credit period, credit terms, etc; Collection Policies; Credit Management in India.

UNIT-IV Inventory Management Hours:8

Inventory: Need for monitoring & control of inventories, objectives of inventory management, Benefits of holding inventory, risks and costs associated with inventories, Inventory Management: Minimizing cost in inventory, Techniques of Inventory Management - Classification, Economic order quantity, ABC Analysis, VED etc.

UNIT-V Financing of Working Capital Hours:8

Need and objectives of financing of working capital, short term credit, mechanism and cost-benefit analysis of alternative strategies for financing working capital: accrued wages and taxes, accounts payable, trade credit, bank loans, overdrafts, bill discounting, commercial papers, certificates of deposit, factoring, secured term loans, etc; Pattern and sources of Working Capital Financing in India with reference to Government policies, working capital control and banking policy- prominent committees on working capital financing.

Course outcome: At the end of course, the student will be able to:

CO 1	Assess and analyze the working capital requirement of the firm.	Analyse (K4)
CO 2	Apply the techniques for managing cash and liquid assets of the firm.	Apply (K3)
CO 3	Plan and channelize the inventories in right quantity and at right time.	Analyse (K4)
CO 4	Apply the techniques of receivables management in order to enhance the cash position of the firm.	Apply (K3)
CO 5	Procure the funds for meeting the working capital needs of the firm.	Analyse (K4)

- 1. Rustagi R P, Working Capital Management, Taxmann
- 2. Bhalla V.K Working Capital management, Text and cases, Anmol Publication, Delhi , 11th edition

- 1. Bhattacharya H, Working Capital Management, PHI, 3rd Ed.
- 2. Rangrajan K, Misra A.; Working Capital Management, Excel Books
- 3. Sagner J, Working Capital Management: Applications and Case Studies, Wiley Publication

		MBA SECOND YEAR			
Cou	rse Code	AMBAFM0413 L	T	P	Credit
Cou	rse Title	Financial Derivatives & Risk Management 3	1	0	4
Cou	rse objective: O	Objective of this course is Duration	on: 4	0 Hot	ırs
1	To aware the st	tudents of different types of Derivatives.			
2	To develop an framework.	understanding amongst students of financial derivatives and associated associ	ciate	d regu	ılatory
3	hedging.	derstanding of the derivative tools such as options, futures and the	eir ap	plicat	tion to
4		the concept of risk management			
Pre-	requisites: Requ	aired Basic Knowledge for Financial Derivatives & Risk Managem	ent		
Cou	rse Contents / S	yllabus			
UNI	T-I	Introduction to Financial Derivatives			Hours:8
		and features of Derivatives, Types of Derivatives, Forward, futures actions, Forward contracts, Forward market in India, Hedging w		_	
UNI	T-II	Forwards Contracts and Futures Contracts			Hours:8
Hedg Prince Spec	T-III ging with Curre ciples of Pricing ulation and Arb	Futures in the Stock Market , Indian Derivatives Market. Introduction to Options ency Options , Speculation and Arbitrage with Options ,Pricing , Black Scholes option pricing Model Index Options , Hedging oitrage with Index Options, Index Options Market in Indian States and the state of t	g wit	h Ind	ex Options,
	rent option strate T-IV	egies to mitigate the risk. Financial Swaps			Hours:8
Finan		ring Interest Rate Exposure, Interest Rate Swaps, Currency Swaps Interest Rate	ate Fu	itures,	
UNI	T-V	Risk Management			Hours:8
		ition, meaning and measurement of Risk- Classification of Risk- diversification eques of risk mitigation	n- Sta	atistica	l tools used in
Cou	rse outcome:	At the end of course, the student will			
CC	1 Understan		I	Know	ledge (K2)
CC	Understan	d how derivative securities work and how they are traded.			
	arbitrage.	d how derivative securities work and how they are traded. d the principles of derivatives pricing, including the implications of	f	Evalua	ating (K7)
CC	Be able to model.	· · · · · · · · · · · · · · · · · · ·	y S		esizing (K6)

CO 5	Be prepared to use futures and options in financial risk management, speculation and arbitrage, interest future and forward rate agreement.	Synthesizing (K6)							
Text boo	Text books								
1. Thoma	as Susan, Derivatives Market in India; Tata McGraw Hill								
2. Financ	2. Financial Derivatives: Theory, Concepts and Practices by S.L. Gupta, PHI, 2005.								
3. Financ	3. Financial Derivatives by S.S.S Kumar, PHI, 2007								

- 1. Options, Futures and other Derivatives, John C. Hull; Prentice Hall of India; New Delhi, 1997.
- 2. Chance, D.M., & Brooks, R. (2008). Derivatives and Risk Management Basics. Cengage Learning India.
- 3. Bhalla, V.K. (2012). Investment Management. New Delhi: Sultan Chand.

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Cou	rse Code	AMBA	BAH	R041	1														L		T		P		Cre	dit
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Cou	rse objectiv	ve: Obje	ectiv	ve of t	this co	ours	e is	to:											Du	rat	ion	4(He	our	3	
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2	Organizatio				مائیہ م	of 1.		-4							.i : 1	4~	1:	1		.:41.			-:		.1	
2	Develop a clear understanding of talent management and its linkage with organizational strategy and other HR practices.																									
3																										
4	Provide the	m the pr	proce	ess of	identi	ifyin																tŀ	ne pr	esei	nt	
_	and future n											1		T T T					7.7		A 1	• ,				
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	rse outcome				of co	urse	e, th	ne st	tud	len	ıt v	wil	l b	e a	ble	e to):									

CO 1	Knowledge of Talent Management Processes	(Understand) K2
CO 2	Analyse the impacts of Talent management in the organization	(Analyze) K4
CO 3	Competency to implement Talent Management practices	(Evaluate) K5
CO 4	Competency to develop leadership qualities among subordinate	(Evaluate) K5
CO 5	Knowledge about the reward system to support Talent management	(Apply) K3

- 1. Rob Silzer (Editor), Ben E. Dowell (Editor), Strategy-Driven Talent Management: A Leadership Imperative, Wiley., 2009.
- 2. Gowri Joshi & Veena Vohra, Talent Management, Cengage Learning ,2017.

- 1. Dessler Gary, Varkkey Biju, Fundamentals of Human Resource Management, Pearson Publication,16th Edition,2020.
- 2. Lance A Berger, Dorothy R Berger, Talent Management Hand Book, McGraw Hill 2017.
- 3. Collings, Mellahi, Casicio, The Oxford Handbook of Talent Management, Oxford University Press, 2017

			MBA SECOND YEAR						
Cou	urse Code	AMBA	AHR0412	L	T	P	Credit		
Cou	urse Title	Strateg	gic Human Resource Management	3	1	0	4		
Coı	urse objectiv	e: Objec	etive of this course is to:	Dura	tion:	40 Ho	ırs		
1	Understand	the link	between firm strategy and HR practices of the	firm	throug	gh			
			ve Advantage.						
2	strategies.								
3									
4	Understand	differen	nt ways in which HRM can be strategically pursued w	vithin	organ	isation	s		
	and its links	s with org	ganisational performance.						
5			act of HRM practices in global environment.						
Pre	-requisites:	Basics o	f HRM						
Cou	urse Content	s / Syllal	bus						
UN	IT-I		Introduction to SHRM			8 H	ours		
Wo cha	rkforce, Dev nges, Challen	elopmen nges in S	& Context of SHRM, Impacts of Globalization on t of SHRM, Models of Strategic HRM, Workfor Strategic Human Resource Management, Impacts of	rce D	iversi	ty, De	mographic		
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CO 2	Apply the learning of SHRM in organizational context.	(Apply) K3
CO 3	Evaluate the impacts of SHRM on competitive advantages	(Evaluate) K5
CO 4	Have desired level of expertise on organizational knowledge management through SHRM.	(Evaluate) K5
CO 5	Understand the International culture in SHRM.	(Understand) K2

- 1. Jeffrey A. Mello, Strategic Human Resource Management, Cengage Learning, 2019
- 2. Charles R Geer, Strategic Human Resource Management: A General Managerial Approach, 2e, Pearson India, 2002.

- 1. Armstrong, Michael & Baron Angela, Handbook of Strategic HRM, (Jaico Publishing House), 2005.
- 2. Gary Rees Smith Paul, Strategic Human Resource Management: An International Perspective, Sage Publications, 2019.
- 3. Richard Regis, Strategic Human Resource Management and Development, Pearson, 2008.

			MBA SECOND YEAR						
Course	Code	AMBA	AHR0413	L	T	P	Credit		
Course '	Title	Divers	sity of Workforce (IHRM)	3	1	0	4		
Course	objective	e: Obje	ctive of this course is to:	Durati	ion:4	0 Hot	ırs		
1	Familiari	ze the stu	dents with HR management in Global perspective.						
2	Underst	and the	complexity of workforce diversity in international	context					
3 Make the students aware of the international labor relations.									
4 Develop an understanding of expatriate's recruitment & training programs.									
	uisites: I								
	Contents	s / Sylla					1		
UNIT-I			Introduction to IHRM				8 Hours		
International Human Resource Management-Overview, Developments leading to International HRM Perspectives, International Human Resource Management: Role and Distinguishing Activities, Organisational Structure and HRM, International Human Resource Planning. Case Studies									
UNIT-I	UNIT-II Staffing & Compensation Practices in Global Context								
Assignm Develop	Staffing Practices in International Human Resource Management, Recruitment and Selection for Overseas Assignments, Global Staffing Practices, International Transfers and Repatriation Strategies, Training and Development in International Context, International Performance Management, Global Compensation Practices. Case Studies. UNIT-III Industrial Relations and Labour Standards in IHRM 8 Hours								
Strategic	Humai	n Reso	International Practices in Industrial Relations, Shirturce Management, International Labour Standork Agreements. Case Studies.				, International		
UNIT-I	V		Diversity Management in Global Context				8 Hours		
Organisa	ation Stru	ictures,	Diversity Management in Global Context. Sensitive Emerging Trends in Employee Relations and Empleyee Imanagement in developed and developing economics.	oloyee I	nvolv	ement	, Convergence		
UNIT-V			Trends & Issues In IHRM				8 Hours		
Emerging	g Trends i	n Interna	ational HRM, HR/IR issues in MNCs and Corporate So	cial Resp	onsi	bility, C	ase Studies		
Course	outcome	: A1	the end of course, the student will be able						
CO1	Unders	tanding	the Contexts of International HRM		(Under	stand) K2		
CO2	Knowle	edge abo	out the HR Processes in International Context		(Unders	tand) K2		
CO 3	CO 3 Able to evaluate the impacts of Globalisation on HRM (Evaluate					ite) K5			
CO4 Desired level of expertise on organizational Issues. (Evaluate)							te) K5		
CO5	Unders	tanding	and applying the International culture in IHRM		(Apply) K3		
	J. Dowling		Festing , Allen D. Engle, International Human Resource Mahana Dash , International Human Resource Management, Mo						

- 1. Harzing, Pinnington, International Human Resource Management, Sage Publication, 2017.
- 2. P L Rao ,International Human Resource Management (Excel Books),2008.
- 3. Tayeb, International Human Resource Management, Oxford ,2007

				MB A							
Cour	se Code	AMBA	MK0411					L	T	P	Credit
Cour	se Title	Sales a	nd Retail	Managen	nent			3	1	0	4
Cour	se objectiv	e: Obje	ctive of th	is course i	s to:			Dura	tion:4	10 Ho	urs
1				tanding, an							
2				plementati							
3				ternatives		ria in the	context o	f realist	tic pro	blem	
	situations in Sales and Retail Management.										
4	To acquai	int the st	udents wit	h both stor	e and nor	n-store ret	ailing.				
5	To build	knowled	ge about r	etail growt	h strategie	es					
Pre-r	equisites:		•				retail man	agemen	t.		
	se Content										
UNIT			Introducti	on of Sales							08 Hours
		Sales: Ro			eting Per	rconal cal	ling Sales	manchii	n ande	alec m	anager, Type
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CO2	Acquainted with better understanding of implementation of sales management strategies.	(Analyse) K4
CO3	Develop analytical skills for effective decision alternatives in sales management problems	(Create) K6
CO4	Develop the knowledge, understanding and skills inretail management and how to manage Store and non-store retailing.	(Apply) K3
CO5	Understand how to develop marketing mix strategies for retail business.	(Analyse) K4

Text Books

- 1. Tapan Panda: Sales and Distribution Management, 3 Ed, OUP.
- 2. Havaldar, K.K., and Cavale, V.M.; Sales and Distribution Management; McGraw Hill Education
- 3. Pradhan Swapna; Retailing Management; 5e, McGraw-Hill Education
- 4 Spiro, R.L., Stanton, W.J. and Rich, G.A.; Management of Sales Force; McGraw-Hill Education
- 5. Berman, Evans, Chatterjee; Retail Management Strategic approach; 13e ,Pearson

Reference Books:

- 1. Panda, T.K., and Sahdev, S.; Sales and Distribution Management; Oxford Univ Press
- 2. P. K. Sinha & D. P. Uniyal, : Managing Retailing, Oxford University Press.
- 3. Still, R.R., Cundiff, E.W. and Govani, N.A.P.; Sales Management; Pearson Education
- 4. Coughlan, A. T., Anderson, E., Stern, L. W. and El-Ansary, A. I.; Marketing Channels; Pearson Education
- 5. Futrell, C.M.; Sales Management; Cengage Learning
- 6. Rosenbloom, B.; Marketing Channels; Cengage Learning
- 1. Retailing Management by Michael Levy & Barton Weitz, Tata McGraw Hill, 5th Edition.
- 2. Retailing Management by Swapna Pradhan, Tata McGraw Hill.

Web resources:

- 1. http://www.cci.in/pdf/surveys reports/indiasretailsector.pdf
- 2. http://www.indiaretailing.com

			MBA SECOND YEAR						
Course	e Code	AMB	AMK0412	L	T	P	Credit		
Course	e Title	Mark	eting Analytics	3	1	0	4		
Course	e objectiv	e: Obje	ctive of this course is to:	Dura	tion:	40	1		
1	Ū	Ū	c concepts of Marketing Analytics						
2	Study vario	ous tools	to have marketing insights in various marketing areas through	empirio	al data				
3	Interpret th	ne market	ing data for effective marketing decision making						
4	To draw inferences from data in order to answer descriptive, predictive, and								
prescriptive questions relevant to marketing managers									
5 Enable students to use forecasting methods for decision making									
Pre-re	quisites: 1	Basic of	Statistics and Marketing						
			Course Contents / Syllabus				T		
UNIT-			Introduction to Marketing Analytics				08 Hours		
(Primar	ry and Sec	condary	s, advantages and disadvantages of marketing and). The new realities of marketing decision making it ons & Approaches (Top-down and Bottom-up)						
UNIT-			Pricing Analytics				08 Hours		
Multipl Optima Skimm	Incorporating Complementary Products, Using Pricing subjectively to estimate Demand Curves, Pricing Multiple Products, Price Bundling & Nonlinear Pricing: Pure Bundling & Mixed Bundling, Determine Optimal Bundling Pricing, Profit Maximizing strategies using Nonlinear Pricing Strategies, Price Skimming & Sales								
UNIT-	III		Customer Analytics				10 Hours		
concep describ position Incorpo Measur	t of marling the soning, Cororating pro	ket segrent segment iducting eference omer Lif	eting: The segmentation-targeting-positioning (STP) mentation, Managing the segmentation process, as -Cluster analysis, Discriminant analysis, Target a positioning study, Perceptual mapping using a sinto perceptual maps. Customer Lifetime Value: Setime value, Estimating Chance that customer is stiffed.	Derivi eting, princi Conce	ng ma The o pal co pt, Bas	orket sconcer concer compon sic Cu	segments and ot of product ents analysis, stomer Value,		
UNIT-			Retailing and Advertising Analytics				6 Hours		
Resour Advert (PPC)	Market Basket analysis: Computing two way and three way lift Allocating Retail Space and Sales Resources: Identifying the sales to marketing effort relationship & its modeling, optimizing sales effort Advertising Analysis: Measuring the Effectiveness of Advertising, Optimizing advertising, Pay per Click (PPC) Online Advertising								
UNIT-	V		Sales Forecasting & Conjoint Analysis				08 Hours		
Regression model to forecast sales, Modeling trend and seasonality; Ratio to moving average forecasting method, Using S curves to Forecast Sales of a New Product Conjoint analysis: Conjoint analysis as a decompositional preference model, Steps in conjoint analysis, Uses of conjoint analysis.									
	,	S curve	s to Forecast Sales of a New Product Conjoint a	analysi	s: Co				
decomp	positional	S curve preferen	s to Forecast Sales of a New Product Conjoint a	analysi	s: Co				

CO 2	Analyze the effects of pricing analytics on business decisions	Analyze (K4)
CO 3	Understand and apply customers analytics for marketing decisions	Analyze (K4)
CO 4	Understand retailing and advertising analytics	Understanding (K2)
CO 5	Understand and apply forecasting methods for decision making	Analyze (K4)

- 1. Marketing Analytics: Data-Driven Techniques with Microsoft Excel by Wayne L Winston © 2014 Wiley India Pvt. Ltd.
- 2. Marketing Analytics: Strategic Models and Metrics by Stephan Sorger© 2013 Create Space Publishing

- 1. Marketing Engineering and Analytics by Gary Lilen, Arvind Rangaswamy, and Arnaud De Bruyn© 2017 Decision Pro, Inc.
- 2. Fundamentals of Business Analytics by R N Prasad and Seems Acharya, Wiley Publisher
- 3. Marketing Analytics by Moutusy Maity and Pavan Kumar Gurazada, Oxford Higher Education
- 4. Digital Marketing Analytics by Chuck Hemann and Ken Burbary, Pearson Education

		MBA SECOND YEAR						
Cou	rse Code	AMBAMK0413 L	T	P Cree	dit			
Cou	rse Title	Marketing of Services 3	1	0 4				
Cour	rse objective	e: Objective of this course is to: Dura	tion: 4	0 Hours				
1		n understanding of the basic concepts and issues in service marketin	ıg.					
2	2 Build a working service marketing vocabulary so as to understand and discuss ma							
concepts in business settings.								
3	3 Learn about key characteristics of service and service processes, customer service experiences,							
	the role of internal stakeholders in service delivery, and organizational challenges of managing							
	service.							
4	_	the ability to justify and support decisions through information	n Acqu	isition and				
	manageme							
5		understanding of how service customers determine value in a serv	vice ex	change and				
D		anslates into a satisfied customer base.		1				
		Having an understanding of Basics of marketing concepts and its	s mode	ds.				
	rse Contents	·						
UNI		Introduction To Services Marketing		08 Hot	ırs			
		Services Marketing. Introduction: Definition, Characteristics and						
		Services, Difference between Product and Services Marketing,		_				
	•	ent Marketing Environment; Services Marketing Mix: Understandi	ng the	7 P's, Strat	egies			
		keting: Segmentation, Targeting & Positioning, Differentiation.		1				
UNI	Γ-II	Understanding Consumer Behavior and Service		08 Ho	urs			
vis g	oods, Consu	onsumer Behavior and Service Design Understanding Consumer B mer Behavior in Services, Customer Expectations and Perceptions cice Development Design & Standards: New Service Development	of Serv	ices – Evalu	ation			
		ce, Customer Defined Service Standards, Demand and Capacity Man						
UNI	T-III	Delivering, Pricing and Managing Service Promise		08 Ho	urs			
in ser Pricin Blue	rvice delivering of Service printing – P	ng and Managing Service Promise, Delivering Services: Role of Ency; Service Product and Operation, Role of Employees and Custom ees, Promotions and Services capes in Services Role of Intermedity hysical evidence. Pricing of Services: Pricing Considerations and St	ners in S aries, S	Service Deli Service proces.	very, ess –			
UNI	T-IV	Service Performance		08 Ho	urs			
		ance. Evaluating Success of Service Offering: Service quality and nery management, Service Guarantees. Role of CRM, the Gaps Mode						
UNI	T-V	Overview Of Current Trends In Service Industries		08 Hot	ırs			
Finar	Overview Of Current Trends In Service Industries, Understanding of Current Trends in Service Industries: Financial, Hospitality, Health, Telecom, Consultancy, Logistics, Education, NGO, Public Utilities, ITES (IT enabled Services), Travel & Tourism, e-Services and Professional Services.							
Cou	rse outcome	: At the end of course, the student will be able TO:						
CO 1		and and explain the nature and scope of services marketing		Understand (K2)	l 			
CO 2	Use criti	cal analysis to service excellence; perceive service shortcomin	gs in	Create (K3)			

	reference to ingredients to create	
CO 3	Be able to identify critical issues related to service design, such as identifying and managing customer service experience, expectations, perceptions	Apply (K4)
CO 4	Provide a theoretical and practical basis for assessing service performance using company	Apply (K3)
CO 5	Identify and discuss characteristics and challenges of managing service firms in the modern world	Apply (K2)

- 1. Services Marketing Text and Cases, Vinnie Jauhari & Kirti Dutta, Oxford Uniersity Press.
- 2. Services Marketing, Zeithaml Valerie and Mary Jo Bitner, Gremler & Pandit, Tata McGraw Hill.

- 1. Services Marketing, Lovelock, Christopher. Prentice Hall.
- 2. Services Marketing, Nargundkar, Rajendra. Tata McGraw Hill
- 3. The Essence of Services Marketing, Adrian Payne.PHI.
- 4. Services Marketing, Ravi Shankar. ExcelPublishing

			MBA SECOND YEAR				
Course Code		AMB	ABI0411	L	T	P	Credit
Course 7	Title	Cyber	Security	3	1	0	4
Course objective: Objective of this course is to: Dura					ation	:40]	Hours
1	1 Understand various types of threats to information system.						
2	Learn threats and risks within context of the cyber security.						
	Have an overview of cyber laws						
4 Understand different types of ethical hacking.							
			Course Contents / Syllabus				
UNIT-I			Introduction to Cyber Security				Hours
Introduction: Introduction to information systems, Types of information Systems, Development of Information Systems, Introduction to information security, Need for Information security, Threats to Information Systems, Information Assurance, Cyber Security, and Security Risk Analysis.							
UNIT-II			Security Threat Management			8	Hours
Application security (Database, E-mail and Internet), Data Security Considerations-Backups, Archival Storage and Disposal of Data, Security Technology-Firewall and VPNs, Intrusion Detection, Access Control. Security Threats -Viruses, Worms, Trojan Horse, Bombs, Trapdoors, Spoofs, E-mail viruses, Macro viruses, Malicious Software, Network and Denial of Services Attack, Security Threats to E-Commerce-Electronic Payment System, e- Cash, Credit/Debit Cards. Digital Signature, public Key Cryptography.							
UNIT-III Security Elements				<u> </u>	8 Hours		
Security	Security Elements: Authorization and Authentication - types, policies and t				techn	iques	s – Security
certificat and Prod Applicati Architect	ion , Se cedures, on Dev cure &	curity n , Firew velopme Design	nonitoring and Auditing - Security Requirements Specialls, IDS, Log Files, Honey Pots. Developing Security Security, Information Security Governance & Security Issues in Hardware, Data Storage & Dowccess Control, CCTV and intrusion Detection Systems,	ificat ecure Risk nload	ions - Info Mana lable	- Sec rmati ngeme Devi	urity Policies on Systems, ent, Security ces, Physical
UNIT-IV	7		Security Policies			8	Hours
Review For the Port Information IT Act 20 Law and E, F), IT	Process- licies. tion Sec 000 Pro Patent I ActSe ce, Pate	Corpora curity S visions, Law. Re ction670 ent Issu	Policies should be developed, WWW policies, Email ate policies-Sample Security Policies, Publishing and Standards-ISO, IT Act, Copyright Act, Patent Law, IF Intellectual Property Law: Copy Right Law, Software cent amendments by the IT (Amendment Act) 2008, Act (A,B,C), IPR Issues:, Copyright Issues in Cyberspates, industrial design, Geographical indications, Plantines.	Notified PR. Control Presentation Presentati	yber I ense, S etion 6	Laws Semio 66 (A nark	in India; conductor , B, C, D, Issues in
UNIT-V Ethical Hacking 8 Hours							

Ethical Hacking: Introduction, Networking & Basics, Foot Printing, Google Hacking, Scanning, Windows Hacking, Linux Hacking, Denial of Service, Sniffer, Social Engineering, Wireless Hacking, Firewall & Honey Pots, Cryptography, IDS & IPS, Penetration Testing, Session Hijacking, Hacking Web Servers, Reverse Engineering, Email Hacking, Incident Handling & Response, Bluetooth Hacking, Mobile Phone Hacking Basic ethical hacking tools and usage of these tools in a professional environment.

Course outcome:	At the end of course, the student wi	ll he able to:
Course outcome.	At the end of course, the student wi	n be able w.

	<u> </u>	
CO 1	Understand the cyber security needs of an organization	(Understand) K2
CO 2	Understand different types of security threats and their impact into to e - commerce	(Understand) K2
CO 3	Understand security policies and protocols to implement such policies.	(Apply) K3
CO 4	Apply policies and procedures and cyber laws to manage Privacy Issues.	(Analyze) K4
CO 5	Understand different types of ethical hacking and their impact in real world.	(Apply) K3

Text books

- 1. NimaGodbole and SunitBelpure , Cyber Security Understanding Cyber Crimes, Computer Forensics and Legal Perspectives, Wiley- India
- 2. B. B. Gupta ,D.P.Agrawal , Haoxing Wang. Computer and Cyber Security : Principles, Algorithm , Applications and Perspectives, CRC Press, ISBN 9780815371335 , 2018

- 1. Swiderski, Frank and Syndex, "Threat Modeling", Microsoft Press, 2004.
- 2. William Stallings and Lawrie Brown, "Computer Security: Principles and Practice", Prentice Hall, 2008.
- 3. Joseph M Kizza, "ComSwputer Network Security", Springer Verlag, 2005
- 4. Thomas Calabres and Tom Calabrese, "Information Security Intelligence: Cryptographic Principles & Application", Thomson Delmar Learning, 2004.
- 5. Michael Gregg, "Certified Ethical Hacker (CEH) Cert Guide", Pearson India, 2014

		MBA SECOND YEAR					
Course Code		AMBABI0412	L	T	P	Credit	
Course Title		Database Technology	3	1	0	4	
Cours	e objective:	Objective of this course is to:	Dura	ation:	40 Ho	urs	
1	Under	stand the basic concepts and the applications of database sy	stems.				
2	Understand the basic concepts of RDBMS						
3	Master the basics of SQL and construct queries using SQL & Familiar with the basic issues of transaction processing						
4	1 C						
		Course Contents / Syllabus					
UNIT-	-I	Introduction to Databases.			8 Hou	rs	
Systen Hierar	ns, Advanta chical Datab	ement System: Introduction, Organization and Componges of DBMS. Database Models: Relational Database Models Model, Semantic Database Model.			rk Data	abase Model,	
UNIT	-II	Relational Database Design			8 Hou	rs	
depend	dencies, Co	ase Design: Concepts, E-R Diagram, ACID property, In neept of Normalization, Physical Database Design, Decodatabase schema, relational algebra, outer join and manipula	mposi	tion o	f Relat		
UNIT		Tuple Relational Calculus			8 Hou	rs	
proces queries Seriali	sing and opt s in relationa zability and	ralculus: Example queries, formal definitions and safety of edimization, set operations, aggregate functions, DDL, DML and algebra, SQL, tuple relation calculus and domain relation testing for serializability, concurrency control schemes, lock graph-based protocols, time stamp-based protocols, deadlock	and vie calculus -basec	ews, cous.	ompari	son of	
UNIT		Data Warehousing			8 Hou	rs	
Mappi Data V	ng the Data Warehouse,	ng: Overview, Definition, Data Warehousing Components Warehouse to a Multiprocessor Architecture, Difference Multi-Dimensional Data Model, Data Cubes, Stars, Sno, Process Architecture, 3 Tier Architecture, Data Scrubbing,	between between	een Dakes,	atabase Fact C	System and	
UNIT-	-V	Data Management System& Trends			8 Hou	ırs	
object Conce Databa	oriented dat pt of NoSQ	nt:Recovery systems, log-based recovery, deferred and in abase design. L databases, Brief History of NoSQL Databases, Feature (Db), CAP Theorem, Eventual Consistency, Advantages of Matthe end of course, the student will be able to have	s of N	loSQL		·	
CO1	Knowledg	e about Database Technology		(Uı	ndersta	nd) K2	
CO2	Understan	ding the business application of Database Technology	(Apply) K3			3	
CO 3	Formulate SQL queries on the data &Understand the concepts of transactions, their processing			(Create) K6			
CO4	Knowledg	e and usage of data warehousing & Data Model		(A _l	oply) K	3	

CO5	Knowledge on Unstructured Database and its application	(Apply) K3
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- 1. Korth, Silbertz, Sudarshan," Database Concepts", McGraw Hill
- 2. Data base System Concepts, A. Silberschatz, Henry. F. Korth, S. Sudarshan, McGraw Hill Education(India) Private Limited 1, 6th edition
- 8. RAMAKRISHNAN"Database Management Systems",McGraw Hill

- 1. Leon &Leon,"Database Management Systems", Vikas Publishing House
- 2. Bipin C. Desai, "An Introduction to Database Systems", Gagotia Publications
- 3. Majumdar& Bhattacharya, "Database Management System", TMH

MBA SECOND YEAR																			
Course	Code	AMBA	BI	413										L	,	Γ	P		Credit
Course Title System Analysis & Design			3		1	0		4											
Course objective: Objective of this course is to: Duration: 40					40 I	Iour	'S												
1	Provide knowledge of different concepts of system analysis and design so that students will be able to develop information systems using different methodologies, tools, techniques and approaches.																		
2	Acquainting the students with tools techniques of planning, analyzing, designing, implementing and maintaining Information system																		
3		stand techn se diagram		es and t	ools fo	or data	a proces	ess mo	odelin	g , en	ntity -	- rel	ations	hip dia	agrai	ns &	& phy	sical	
4	Understand the project monitoring tools & techniques																		
						Cou	ırse C	Conte	ents /	Syll	labus	S							
UNIT-I			S	stem E	nginee	ering E	Ethics											8 I	Hours
Systems	Ethics	s- Over V	Vie	v of Sy	ystem	Anal	lysis a	and Γ	Desig	n, Bı	usine	ess S	Syste	m Co	nce	pts,	Char	acter	ristics of
7			~			CO	-		, -		1 1	~ .		C	T C	_		o •	c .

Systems Ethics- Over View of System Analysis and Design, Business System Concepts, Characteristics of a System, Elements of a System, Types of Systems, Systems Models, Categories of Information & Information Management System. SAD/SE state of the art, gaps, industry focus and research.

System Development Life Cycle: Investigation, Analysis, Design, Implementation, Post Implementation Review and Maintenance.V Process Model, Introduction to Agile Methodology, Iterative-incremental process models – RUP and Scrum comparative analysis.

UNIT-II Specifications & Structured Analysis

8 Hours

RequirementSpecification: System Requirement Specifications, Requirement Specification Process: Elicitation, Analysis, Documentation, Review and Management of User Needs, concepts, methods and standards. **Feasibility Analysis:** Feasibility Study, Steps in Feasibility Analysis, Feasibility Report. Information Modelling, IEEE Standards for SRS.

Structured Analysis: Data Flow Diagrams, *Entity Relationship Diagrams, Use case Diagram, Activity Diagram, Class Diagram*, Decision Tables, Data Dictionary; Process Modeling: Structured English, Decision Tree & Decision Table, Object-Oriented Analysis & Design (OOD). Tools (EA & Star UML).

UNIT-III Project Organization & Scheduling

8 Hours

Systems Planning and Investigation: Basis for Planning in Systems Analysis, Dimensions of Planning, Initial Investigation, Needs Identification. Project schedule, Scheduling Objectives, Building the project schedule, Scheduling terminology and techniques, **Network Diagrams:** PERT, CPM, Bar Charts: Milestone Charts, Gantt Charts.

UNIT-IV System Implementation

8 Hours

System Implementation: Implementation Plan, Hardware Selection, Determining size and capacity requirements, Computer evaluation and measurement, Maintenance and Support, Vendor Selection, Software Selection, Criteria for Software Selection, Performance Evaluation.

UNIT-V Software Quality & Trends

8 Hours

Software Quality Assurance (SQA): Quality concepts, Software quality assurance, SQA activities, Formal approaches to SQA; Statistical software quality assurance; CMM, The ISO 9000 Standard, Six sigma.

Types of Review: Inspections, Desk checks, Walkthroughs, Code Reviews, Pair Programming.

Latest Trends in SAD: Cloud & DevOps.

CO 1	Understand the principles and tools of system analysis and design & the basic concept of SDLC	(Understand) K2
CO 2	Apply appropriate Information systems tools & Techniques to create solutions to information systems problems.	(Apply) K3
CO 3	Learn & Understand the basic concept of Project Scheduling, PERT, CPM and Bar Chart	(Evaluate) K4
CO 4	Llearn and evaluate software implementation with a clear understanding on quality assurance and quality framework.	(Evaluate) K4
CO 5	Learn types of Project review and new trends in SAD	(Apply) K3

- . I.T.Haryszkiewycz, Introduction of System Analysis and Design, Pearson Education, (PHI) 1998.
- 2. V.Rajaraman, Analysis and Design of Information System, Pearson Education, 1991.
- 3. J.A.Senn, "Analysis and Design of Information Systems" McGraw-Hill.
- 4. R. S. Pressman, Software Engineering: A Practitioners Approach, McGraw Hill.
- 5. Rajib Mall, Fundamentals of Software Engineering, PHI Publication.
- 6. Software Project Management by M. Cotterell

Reference Books

- 1. K. K. Aggarwal and Yogesh Singh, Software Engineering, New Age International Publishers.
- 2. Software Project Managemnet by S. A. Kelkar

Course Name: MBA/ Second Year- Semester 4						
Course Code	AMBALS0412	L	T	P	Credit	
Course Title	Information Systems in Logistics and Supply Chain	3	0	0	3	
Course Objective: Objective of this course is to:			ation:	40 H	ours	

The objective of the course is to develop experience in creating a digital supply chain strategy and also identify sustainable sources for logistics and transport management system.

Course Contents / Syllabus

UNIT-I Digitizing supply chain 7 Hours

Introduction to digital business and e-commerce, E-environment and Factors Driving E-Business. Different Models of E-Business. Introduction, Digitizing vs Digitalizing in Supply Chains. e-Commerce Transformation and Omnichannel Revolution. Industry 4.0 and Digital Transformation. eSCM Framework: eSCM process and enablers.

UNIT-II Managing Digital Business Infrastructure

9 Hours

Technology and digital business infrastructure components, Focus on Web services, SaaS, cloud computing and service-oriented architecture (SOA), Benefits of web services or SaaS, Application programming interfaces (APIs), Challenges of deploying SaaS. Virtualisation, Service-oriented architecture (SOA), Selecting hosting providers, managing service quality when selecting Internet service and cloud hosting providers, Introduction to EDI. Artificial Intelligence Driven SCs: Challenges and Opportunities.

UNIT-III Procurement and E Logistics

9 Hours

Understanding the Procurement process, Participants in different types of e-procurement, Drivers of e-procurement, Benefits of e-procurement, Estimating e-procurement costs, Barriers and risks of e-procurement adoption. Push and Pull Supply Chain, E- Logistics Technologies, Advance Ship Notice (ASN), Tracking systems, Satellite global positioning systems (GPS) and geographic information systems (GIS), Bar-coding and scanning, Digital Signature Technology, Wireless Technology – Radio Frequency Identification and Detection (RFID).

UNIT-IV Sustainable Supply Chain and Green Procurement

7 Hours

Traditional Supply Chain and Green Supply Chain, Sustainable Production & Efficiency. Green Procurement and Purchasing – Definitions of green purchasing – Drivers of green purchasing – Green purchasing strategies – Green purchasing performance measurement – Green Supplier Development and Collaboration.

UNIT-V Green Logistics and transportation

7 Hours

Definitions of Green Logistics – Critical drivers of Green Logistics – Green transportation and logistics practices – Environmental impacts of transportation and logistics. Closing the Loop: Reverse Logistics Closed loop supply chain / circular economy, End of life / reverse logistics management, renewable energy, transportation.

Course outcome:

At the end of course, the student will be able to:

CO1	Understand the digitization of supply chain to meet modern user needs	Understanding (K2)
CO2	Creating a sustainable digital infrastructure with technological integration	Creating (K6)
CO3	Understand and apply advanced technologies for effective e -procurement and e-logistics	Applying (K3)
CO4	Understand sustainable supply chains and green procurement processes	Understanding (K2)
CO5	Understand the concept of green logistics and transportation	Understanding (K2)

- 1. Mangla, S. K., Luthra, S., Jakhar, S. K., Kumar, A., & Rana, N. P. (Eds.). (2019). *Sustainable Procurement in Supply Chain Operations*. CRC Press.
- 2. Reintjes, M. (2023). 13 Sustainable Procurement and Logistics Management. Sustainable Business Management, 209.
- 3. Chaffy D, Digital Business and E commerce Management Strategy, Implementation and Practices. Pearson
- 4. Oswald G., Kleinemeier M., Shaping the Digital Enterprise: Trends and Use Cases in Digital Innovation and Transformation. Springer

Reference Books

- 1. David B, G., Trautrims, A., & Wong, C. Y. (2021). Sustainable logistics and supply chain management. Kogan page.
- 2. Joseph, P. T. (2023). *E-commerce: An Indian perspective*. PHI Learning Pvt. Ltd..
- 3. Ayers, "Costs Getting to the Root Causes," Supply Chain Management Review, November/December 2003, 24-30.
- 4. Johnson, M. E. and S. Whang (2002). "E-business and Supply Chain Management: An Overview and Framework." Production and Operations Management 11(4): 413-423.

Links:

https://procurementmag.com/procurement-strategy/amazon-business-sustainability-through-digital-procurement

https://www.industryweek.com/technology-and-iiot/article/21168392/inside-tata-steels-digital-transformation

https://youtu.be/Xj31iRr9y28

Course Name: MBA Second Year / Semester 4							
Course Code	AMBALS0411	\mathbf{L}	T	P	Credit		
Course Title	Global Business Management for Logistics & Supply Chain	3	0	0	3		
Course Objective: Objective of this course is to:			ation:	40 H	ours		

Students will be well versed with global supply chain and logistics system and enrich their knowledge in the field of international trade & logistics. They will understand the process of international operations related to logistics & supply chain and would be able to develop insights about global supply chain practices for catering international markets and develop international marketing and sales plans.

Course Contents / Syllabus

UNIT-I	Global Supply Chains	8 Hours
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Introduction, features of global supply chains, geographically dispersed and culturally diverse supply chains. Supply chain operations management, off-shoring, multi-country outsourcing, push-pull, reverse supply chains, risks & mitigation.

UNIT-II International Trade & Logistics 8 Hours

Corporate decision-making criteria attendant to global import/export and other market entry strategies, evaluation of international opportunities. Management of international logistics operations including global sourcing, global transportation, facility network design, intermediaries.

Trade documentation: operations, government agencies, import/export channel networks.

UNIT-III International Operations Management 8 Hours

Introduction to operations management, Process, product and service design, Global supply chain management, Operations planning. Global operations sustainability, Quality management, Resource and capacity planning, Global procurement management.

UNIT-IV Supply Chain Practices 8 Hours

Analysis, planning, and management of domestic and international procurement and supply activities, Procurement and supply management in the context of domestic and global supply-chain networks. Strategic sourcing relationships, Supply management best practices, E-perspectives on supply management.

UNIT-V International Marketing & Sales 8 Hours

International sales and marketing, International marketing plan: Target market demands and preferences, Evaluation of competitive forces. Use of information to create marketing and sales solutions, Trade financial plan and the global supply chain plan to form a complete project plan for an international venture, Green Logistics.

CO1:	Understand the global supply chain and logistics system	Understand (K2)
CO2:	Analyse various aspects of international trade and logistics	Analyse (K4)
CO3:	Develop international operations efficiently and effectively	Create (K6)
CO4:	Develop plans to efficiently utilize global supply chain networks.	Create (K6)
CO5:	Create international marketing and sales plans pertinent to global logistics & supply chain	Create (K6)

1. Rusell, R. S., Taylor, B., Gudavaletti P.K., (2023). Operations & Supply Chain Management. Wiley

Reference Books

- 8. Mangan J., Lalwani C., Calatayud A. (2021), Global Logistics and Supply Chain Management. Wiley
- 9. Chopra, S.(2021). Supply Chain Management: Strategy, Planning & Operations. Pearson **Links**:

https://www.youtube.com/watch?v=VT9AuMNQUMU https://www.youtube.com/watch?v=4-QU7WiVxh8

Course Name: MBA Second Year / Semester 4						
Course Code	AMBALS0413	L	T	P	Credit	
Course Title	Supply Chain Analytics	3	0	0	3	
Course Objective: Objective of this course is to: Duration: 40 Hours				ours		

Understanding the core concepts of supply chain analytics and ensuring effective inventory management. Learning application of quantitative techniques for managing supply chain and establishing effective supplier relation with application of digital tools.

Course Contents / Syllabus

UNIT-I	Supply Chain Management	8 Hours
CITI	Supply Chain Manaschicht	Ollouis

Supply Chain, Stages of Supply chain, Value Chain, Cycle, Supply Chain Process, Key issues in SCM, Drivers of Supply Chain, Challenges in Supply Chain, Strategic perspectives of Supply chain: Strategic fit, Contemporary practices in SCM, Innovations in SCM.

UNIT-II Inventory Management 8 Hours

Inventory, Types & nature of inventory, Methods for inventory management, Newsvendor model Inventory systems, Periodic and continuous reviews, Important documents. ABC analysis, XYZ analysis, Just in Time (JIT), Minimum requirement planning (MRP), Emerging trends in inventory management.

UNIT-III Quantitative Techniques for SCM 8 Hours

Linear Programming Problems (LPP), Facility Location Decision. Correlation, Coefficient of Variation (CoV), Regression, ANOVA.

UNIT-IV Lean Operations Management 8 Hours

Lean, Application of Lean concept. Quality, Models of quality, Total quality management (TQM), Total Productive Maintenance (TPM), Six Sigma.

UNIT-V Supplier Relationship Management 8 Hours

Importance of supplier relations, Risks in supplier relations, Disruption, Sources of Disruption, Multisourcing. Digital twin and its application, Predictive Maintenance, Global vs Local Supply Chains.

Course	Course outcome: At the end of course, the student will be able to:					
CO1	Understand relevant concepts of supply chain analytics	Understand (K2)				
CO2	Evaluate the issues in inventory management for better functioning	Evaluate (K5)				
CO3	Apply various quantitative techniques to manage various facets of supply chain process.	Apply (K3)				
CO4	Apply the concepts of quality control and lean in managing supply chain.	Apply (K3)				
CO5	Develop a relationship network of stakeholders for smooth operations.	Create (K6)				

1. Robertson W. Peter, Supply Chain Analytics: Using Data to Optimise Supply Chain Processes, Routledge

Reference Books

1. Liu, Y. Kurt. Supply Chain Analytics: Concepts, techniques & application, Springer Nature

Links:

- 1. https://www.academia.edu/39043818/Supply_chain_analytics
- $\textbf{2.} \quad \underline{https://www.youtube.com/watch?v=9FDKcxea3h8\&list=PLnD8JdB5BhfQAqqcyN7fe0pos}\\ \underline{EQX9rvwO\&index=3}$

Course Name: MBA Second Year/Semester 4						
Course Code	AMBABA0412	L	T	P	Credit	
Course Title	Machine Learning and Artificial Intelligence	3	0	0	3	
Course Objective: Objective of this course is to: Duration: 40 Hours						

The objective of this course is to make student understand the concept of artificial and machine learning, supervised and machine learning models, historical perspective of AI and ML and scope of AIML in business.

Course Contents / Syllabus

UNIT-I Artificial Intelligence (AI) 7 Hours

Introduction to AI, strong AI vs. weak AI, Functions of AI, Characteristics of artificial intelligence, Applications of AI. Historical milestones in the development of AI, Great contributors.

UNIT-II Search Techniques 8 Hours

Problem-solving agents, searching for solutions; uniform search strategies: breadth first search, depth-first search, depth-limited search, bidirectional search, comparing

uniform search strategies. Heuristic search strategies Greedy best-first search, A* search, AO* search, memory bounded heuristic search: local search algorithms & optimization problems: Hill climbing search, simulated annealing search, local beam search.

UNIT-III Machine Learning 9 Hours

History of ML, Introduction of Machine Learning Approaches,

Issues in Machine Learning and Data Science Vs Machine Learning.

Confusion metrics, AUC-ROC, Sensitivity and specificity Analysis.

Underfitting and Overfitting, Bias and Variance, Concept Learning Task, Inductive Bias.

UNIT-IV Supervised Learning 8 Hours

Linear Regression, Multiple Linear Regression, Logistic Regression, Polynomial Regression, Decision Trees: ID3, C4.5, CART.

UNIT-V	Unsupervised Learning	8 Hours
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Introduction to clustering, K-means clustering, K-Nearest Neighbor, Iterative distance-based clustering, Dealing with continuous, categorical values in K-Means, K-Mode Clustering, density-based clustering.

CO1	Understand the concept of Artificial Intelligence.	Understanding (K2)
CO2	Apply the concepts of AI in solutions that require problem-solving, inference, and perception.	Applying (K3)
CO3	Understand the concept of Machine Learning.	Understanding (K2)
CO4	Understand and apply the basic supervised machine learning algorithms.	Applying (K3)
CO5	Understand and apply unsupervised machine learning algorithms.	Applying (K3)

- 1. Yadav, S. P., Mahato, D. P., & Linh, N. T. D. (Eds.). (2020). Distributed artificial intelligence: A modern approach. CRC Press.
- 2. Burkov, A. (2019). The hundred-page machine learning book (Vol. 1, p. 32). Quebec City, QC, Canada: Andriy Burkov.

Reference Books

- 1. Raschka, S., & Mirjalili, V. (2019). Python machine learning: Machine learning and deep learning with Python, scikit-learn, and TensorFlow Packt Publishing Ltd.
- 2. Rebala, G., Ravi, A., & Churiwala, S. (2019). An introduction to machine learning. Springer.

Course Name: MBA Second Year/ Semester 4					
Course Code	AMBABA0411	L	T	P	Credit
Course Title	Data Visualization	3	0	0	3
Course Objective: Objective of this course is to: Duration: 40 Hours					

This course will introduce the main concepts of data visualization with a hands-on tutorial using Tableau and Power BI.

Course Contents / Syllabus

UNIT-I Data Visualisation 6 Hours

Concept of Data and Data visualisation, Foundations for building Data Visualizations, Visualizing categories Design principles. Need for Power BI and Tableau, Power BI vs. Tableau, Reporting and Storytelling, Installing Tableau, Menus and Toolbar, Converting Excel, and text Data into Tableau Desktop.

UNIT-II Tableau 9 Hours

Data Interpreter for data cleaning, Data Preparation, Managing Metadata (Renaming and Hiding Data Fields, Grouping in folders and Hierarchies), bins, Filtering and sorting data, Adding Titles, Labels, and descriptions. Overview of SUM, AVR, and Aggregate Features Creating custom calculations and fields Applying new data calculations to your visualization. Area, bar, heatmap, box plot, pareto, line, scatter plot, tree map, crosstab, geographic map, waterfall.

UNIT-III Distributing, and Publishing 7 Hours

Dual Axis Reports, Blended axis, add reference lines, reference distributions. Create a Dashboard, Interpret with KPIs, create a story.

UNIT-IV Introduction to Power BI 8 Hours

Power BI Desktop Overview, Data Discovery with Power BI Desktop, Transforming Data – Appending and merging queries, combining files, adding columns. Modeling Basics, Model Enhancements, What If Parameters, DAX Basics, Navigation Function, Calculated Tables, Measure Basics, Time Intelligence Functions.

UNIT-V Visualizing Data in Power BI 10 Hours

Basic Reports, Interactive Reports - Adding Slicers for Filters, Visualizing Tabular Data, categorical data, Data Trends, Categorical and Trend Data Together, Geographical Data with Maps, Digital Storytelling. Deploying to the Power BI Service, Creating and Sharing Dashboards, Using Power BI Q&A, Excel Integration, Export and Embed Options. Refreshing Data Overview, Installing the Data Gateway, Scheduling a Data Refresh. Power BI Mobile Overview, Designing Reports and Dashboards for Mobile, Interacting with the Power BI Mobile App.

Course outcome: At the end of course, the student will be able to:					
CO1	Understand the concepts required for Data Visualization.	Understanding (K2)			
CO2	Illustrate and analyze data using various functions in Tableau Desktop.	Analyse (K4)			
CO3	Creating ad-hoc reports, data visualizations, and dashboards for publishing using Tableau Desktop.	Creating (K6)			
CO4	Analyze data and create data models using Power BI Desktop.	Creating (K6)			
CO5	Creating reports and dashboards using Power BI Desktop.	Creating (K6)			

- 1. Wilke, C. O. (2019). Fundamentals of data visualization: a primer on making informative and compelling figures. O'Reilly Media.
- 2. Lachev, T., & Price, E. (2015). Applied microsoft power BI: bring your data to life!. Prologika Press.
- 3. Loth, A. (2019). Visual analytics with Tableau. John Wiley & Sons.

Reference Books

- 1. Ferrari, A., & Russo, M. (2016). Introducing Microsoft Power BI. Microsoft Press.
- 2. Milligan, J. N., Hutchinson, B., Tossell, M., & Andreoli, R. (2022). Learning Tableau 2022: Create effective data visualizations, build interactive visual analytics, and improve your data storytelling capabilities. Packt Publishing Ltd.

Links:

- 1. <u>Dashboard Design Tips: Creative Ways to Use Images | Tableau Conference 2023 Bing video</u>
- 2. Tableau KPI Dashboard Design tutorial for Business Step by Step Bing video
- 3. How to Install Tableau and Create First Visualization | Tableau Tutorials for Beginners Bing video
- 4. <u>Building A Quarterly Sales Forecast Dashboard Using Tableau | Sales Forecast Dashboard Using Tableau Bing video</u>

Course Name: MBA Second Year /Semester 4					
Course Code	AMBABA0413	L	T	P	Credit
Course Title	Social Media Analytics	3	0	0	3
Course Objective: Objective of this course is to: Duration: 40 Hours					

The objective of this course is to make students learn the foundation understanding of web and social media metrics and analytics, develop social media strategy, and measure social media campaign effectiveness. Students will also be able to make better business decisions by leveraging social media data.

Course Contents / Syllabus

UNIT-I	Introduction to Social Media Data	7 Hours
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Types of data on social platforms, ethical sensitivities in obtaining and operating on social data, social platform API to obtain data, and data structure. Loading of social media corpus, summary statistics, visualize the corpus along geographic and temporal axes.

UNIT-II Text Analytics and Text Mining 8 Hours

Text Analytics and Text Mining Concepts and Definitions, Natural Language Processing. Text Mining Applications, Text Mining Process, Text Mining Tools.

UNIT-III Web Analytics 8 Hours

Web Metrics, Link Analysis and Web Search, Web Structure Mining, Search Engines, Search Engine Optimization. Web analytics - Web analytics 2.0 framework, Web Analytics Maturity Model and Web Analytics Tools, Natural Language Processing Techniques for Micro-text Analysis PULSE metrics on business and technical issues; HEART metrics on user behaviour issues; On-site web analytics, off-site web analytics, the goal signal-metric process.

UNIT-IV Social Media Analytics 8 Hours

Social media KPIs (reach and engagement) - Performing social media analytics, Social Analytics and Social Network Analysis, Social Media Analytics. Social campaigns. Measuring and Analyzing social campaigns, defining goals and evaluating outcomes, Network Analysis. (LinkedIn, Instagram, YouTube Twitter etc.

UNIT-V Sentiment Analysis	9 Hours
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Sentiment Classification, Feature-Based Opinion Mining and Summarization, Comparative Sentence and Relation Mining, Opinion Search, Opinion Spam. Data Collection and Pre-Processing, Data Modeling for Web Usage Mining, Discovery & analysis of web usage patterns.

CO1	Understand the types of social media data and the ethical sensitivity of this data.	Understanding (K2)
CO2	Understand and apply the concepts of text analytics.	Applying (K3)
CO3	Understand and apply web analytics and related concepts.	Applying (K3)
CO4	Draw meaningful insights and provide actionable and strategic recommendations based on thorough social media data analysis.	Evaluating (K5)
CO5	Compute sentiment over social media text.	Evaluating (K5)

- 1. Kumar, S., & Qiu, L. (2021). Social media analytics and practical applications: The change to the competition landscape. CRC Press.
- 2. Yigitcanlar, T., & Kankanamge, N. (2022). Urban Analytics with Social Media Data: Foundations, Applications and Platforms. CRC Press.
- 3. Agrawal, R., & Gupta, N. (Eds.). (2018). Extracting knowledge from opinion mining. IGI Global.

Reference Books

- 1. Finger, L., & Dutta, S. (2014). Ask, measure, learn: using social media analytics to understand and influence customer behavior. "O'Reilly Media, Inc.".
- 2. Agarwal, B., Nayak, R., Mittal, N., & Patnaik, S. (Eds.). (2020). Deep learning-based approaches for sentiment analysis (p. 4). Singapore: Springer.
- 3. Ram, J., & Zhang, C. (2021). Examining the role of social media analytics in providing competitive intelligence: The impacts and limitations. Journal of Global Information Management (JGIM), 29(6), 1-18.
- 4. Zhang, L., Wang, S., & Liu, B. (2018). Deep learning for sentiment analysis: A survey. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 8(4), e1253.