BACHELOR OF BUSINESS ADMINISTRATION in AVIATION AND GROUND HANDLING (BBA)

BISHOP HEBER COLLEGE (Autonomous)

Affiliated to Bharathidasan University Nationally Reaccredited with 'A' Grade by NAAC with a CGPA of 3.58 out of 4 Recognized by UGC as "College of Excellence" Tiruchirappalli– 620017 South India



SYLLABUS

2022 - 2023

(Admitted Students)

PG & RESEARCH DEPARTMENT OF MANAGEMENT STUDIES

VISION

World class business school with satellite campuses across the globe and to cater to all who strive to become management professionals.

MISSION

- Provide quality management education to students who aspire to become future managers and entrepreneurs.
- Bring total transformation in their personality to perform effectively and efficiently in corporate world.

Programme Outcomes (POs) - BBA

On completion of this course, the graduate will be able to

KNOWLEGE

PO1: Demonstrate comprehensive knowledge and understanding of one or more functions in management that form a part of an Bachelor of Business Administration programme.

PO2:Identify the broad overview of the airline industry and creates awareness of the underlying marketing, financial, operational, and other factors influencing airline management.

PO3: Critically evaluate practices, policies and theories by following scientific approach to knowledge development in field of Aviation and ground handling.

SKILL

PO4:Exhibit communication skills apart from leadership and organizational skills which are important in the aviation industry.

PO5: Work independently and to identify appropriate resources required for a project, manage a project effectively till its completion.

PO6: Make use of ICT in a variety of learning situations, demonstrate ability to access, evaluate and use appropriate software in aviation industry.

ATTITUDE

PO7:Exhibit knowledge and skills that are necessary for participating in lifelong learning activities.

PO8:Demonstrate their knowledge by applying it to real world situations encountered during flight training in a safe and effective manner.

ETHICAL & SOCIAL VALUES

PO9: Embrace moral/ethical values in conducting one's life, formulate a position/argument about an ethical issue from multiple perspectives, and use ethical practices in all work.

Programme Specific Outcomes (PSOs) - BBA

On Completion of this course, the graduate will be able to

PSO1:Take up a career of learning to fly new aircraft and operate new equipment and have positive study habits to maintain high levels of professional knowledge.

PSO2:Pursue higher education programme like MBA in Aviation Management.

PSO3: Take-up the roles of aviation planner, senior staff analyst for airlines, operations analyst for airlines, financial analyst for airlines, cabin crew and purchasing management.

PSO4:Make decisions and actions that impact their passengers, people on the ground, airport security and public perception of the aviation industry.

SYLLABUS

		SEMESTE	ER I					
	_	Hours/			Marks			
Part	Course	Course Title	Course Code	Week	Credits	CIA	ESE	Total
I	Language I	Tamil I	U18TM1L1	6	3	25	75	100
II	English I	English Communication Skills-I	U21EGPL1	6	3	40	60	100
	Core I	Principles of Management	U20AG101	6	5	25	75	100
	Allied I	Radio Communication	U21AG1Y1	5	4	25	75	100
	Allied II	Familiarization of Airport and Aircraft	U20AG1Y2	5	4	25	75	100
IV	Val.Edu	Value Education (RI / MI)	U15VL1:1/ U15VL1:2	2	2	25	75	100
				CREDITS	21		•	
		SEMESTE	RI		I	1		
Part	Course	Course Title	Course	Hours/	Credits		Marks	3
Part	Course	Course Title	Code	Week	Credits	CIA	ESE	Total
Ι	Language II	Tamil II	U18TM2L2	6	3	25	75	100
II	English II	English Communication Skills-II	U21EGNL2	6	3	40	60	100
	Core II	Business Economics	U20AG202	6	5	25	75	100
	Allied III	Business Mathematics & Statistics	U21AG2Y3	5	4	25	75	100
	Allied IV	Introduction to Cabin Crew Profession	U20AG2Y4	5	4	25	75	100
IV	Env.Stu	Environmental studies	U16EST21	2	2	25	75	100

For Students admitted from 2022-2023 Batch Onwards

		SEMESTE	R III					
Part	Course	Course Title	Course	Hours/	Credits		Marks	5
Fait	Course	Course Thie	Code	Week	Cieuits	CIA	ESE	Total
I	Language III	Tamil III	U18TM3L3	6	3	25	75	100
II	English III	Business Communication in English	U17EGCL3	6	3	40	60	100
	Core III	Management Accounting-I	U20AG303	5	4	25	75	100
111	Elective I	Sales and Distribution Management/ Total Quality Management	U22AG3:A/ U22AG3:B	5	5	25	75	100
	Allied V	Air Regulation	U20AG3Y5	4	3	25	75	100
IV	SBEC I	Computer Application in Business- I(Theory and Practical)	U20AGPS1	2	2	40	60	100
	NMEC I	Fundamentals of Management	U20AG3E1	2	2	25	75	100
				CREDITS	22		•	
		SEMEST	ER IV					
Part	Course	Course Title	Course	Hours/	Credits		Marks	5
1 411			Code	Week	orcuito	CIA	ESE	Total
I	Language IV	Tamil IV	U18TM4L4	5	3	25	75	100
II	English IV	English Through Literature	U21EGNL4	5	3	40	60	100
	Core IV	Business Law and Aviation Flight Safety Law	U21AG404	5	5	25	75	100
III	Elective II	Training and Development/ Services Marketing	U22AG4:A/ U22AG4:B	5	5	25	75	100
	Allied VI	Aviation Security	U20AG4Y6	4	3	25	75	100
	SBEC II	Airport Ground Handling Management	U21AGPS2	2	2	40	60	100
IV	NMEC II	Fundamentals of Marketing	U20AG3E2	2	2	25	75	100
	Soft Skills	Life Skills	U16LFS41	2	1	-	-	100
V	Ext.Act	NSS, NCC, Leo Club, Rotract, etc	U16ETA41	-	1	-	-	
				CREDITS	25			

		SEMESTE	RV					
Part	Course	Course Title	Course	Hours/	Credits		Marks	S
Part	Course	Course little	Code	Week	Credits	CIA	ESE	Total
	Core V	Human Resource Management	U20AG505	6	5	25	75	100
	Core VI	Planning And Crew Scheduling	U21AG506	6	5	25	75	100
	Core VII	General Navigation	U20AG507	6	5	25	75	100
III	Core VIII	Dangerous goods regulations	U20AG508	5	5	25	75	100
		Investment Management/	U22AG5:A/					
	Elective III	Project Management/	U22AG5:B/	5	5	25	75	100
		Retail Management	U22AG5:C					
IV	SBEC III	Interview Skills	U20AG5S3	2	2	25	75	100
	I	1		CREDITS	27			1
		SEMEST	ER VI		1	I		
			Course	Hours/	-		Marks	S
Part	Course	Course Title	Code	Week	Credits	CIA	ESE	Total
	Core IX	Strategic Management	U20AG609	6	5	25	75	100
III	Core X	Research Methodology & Introduction to Statistical Packag es(Theory and Practical)	U20AGP10	5	5	40	60	100
	Core XI	Passenger Facilitation	U21AG611	6	5	25	75	100
	Core XII	Ramp Service Management	U21AG612					
IV	Internship	Internship	U20AG6F1	-	6	-	-	100
V	Gen.Stu	Gender Studies	U16GST61	-	1	-	-	100
	1	1	1	CREDITS	24			
		Total Credits			140			

*OtherLanguages:

	Hindi	Sanskrit	French		Hindi	Sanskrit	French
Semester I	U18HD1L1	U17SK1L1	U18FR1L1	Semester III	U18HD3L3	U17SK3L3	U18FR3L3
Semester	U18HD2L2	U17SK2L2	U18FR2L2	Semester	U18HD4L4	U17SK4L4	U18FR4L4
I				IV			

Part 1	4
Part II	4
Core Theory	12
Allied	6
Elective	3
NMEC	2
SBEC	3
Env.Studies	1
Extension Activities	1
Value Education	1
Soft Skills	1
Gender Studies	1
Core Project	1

NMEC offered by the Department:

- 1) Fundamentals of Management–U20MS3E1
- 2) Fundamentals of Marketing-U20MS4E2

PROGRAMME ARTICULATION MATRIX - BBA - AVIATION & GROUND HANDLING

			CO	RRELA	TION V	VITH PR	OGRA		UTCON COMES	IES AN	D PRO	GRAM	ME SI	PECIF	TC
S. No	COURSE NAME	COURSE CODE	PO1	PO2	РОЗ	PO4	PO5	PO6	PO7	PO8	PO9	PS 01	PS 02	PS O3	PS O4
1.	Principles of Management	U20AG101	н	м	н	м	М	м	м	М	L	м	L	н	м
2.	Radio Comm unication	U19MS1Y1	н	м	н	н	м	м	м	L	М	М	м	М	L
3.	Introduction To aircraft & Aircraft Familiarisati on	U20AG1Y2	M	Μ	Н	н	Н	L	н	М	М	L	м	Η	м
4.	Business Eco nomics	U20AG202	н	н	м	м	м	м	н	н	м	н	н	м	м
5.	Business Mat hematics & S tatistics	U20AG2Y3	н	Н	Н	Н	М	М	Н	н	М	н	н	Н	м
6.	Introduction to Cabin Cre w Profession	U20AG2Y4	м	м	н	н	н	L	н	м	М	L	м	Н	н
7.	Management Accounting-I	U20AG303	н	L	м	н	м	м	L	н	н	н	н	н	L
8.	Sales and Distribution Management	U22AG3:A	М	М	М	м	м	м	М	М	М	м	м	Н	Н
9.	Advertising and Sales promotion	U22AG3:B	н	Н	н	н	м	L	Н	М	L	м	м	М	L
10	Total Quality Management	U22AG3:C	М	М	н	н	н	н	м	м	М	L	м	н	м
11	Air Regulati on	U20AG3Y5	м	М	н	н	н	L	м	м	м	L	М	н	н
12	Computer Application	U20AGPS1	Н	Н	н	м	Н	н	м	м	м	н	L	н	м

	in Business-														
	I(Theory and														
	Practical)														
13	Fundamental	U20AG3E1	н	н	н	Н	M	н	M	н	н	Н	Н	н	н
	s of														
	Management														
14	Business La	U21AG404	м	м	м	м	н	м	м	м	м	м	м	н	м
	w and														
	Aviation														
	Flight Safety														
	Law														
15	Training and	U22AG4:A	н	м	н	м	м	н	М	н	м	н	м	н	L
	Development														
16	Services	U22AG4:B	н	м	н	м	L	м	L	н	L	L	м	м	м
	Marketing														
17	Aviation Sec	U20AG4Y6	М	м	н	н	н	L	н	м	м	L	м	н	н
	urity														
18	Practical	U20AGPS2	м	м	н	н	н	н	L	н	м	L	м	н	н
19	Fundamental	U20AG3E2	Н	M	M	м	L	м	M	Н	L	м	L	м	L
	s of														
	Marketing														
	(NMEC)														
20	Human Reso	U20AG505	н	L	н	м	м	м	м	н	L	М	н	м	L
	urce Manage														
	ment														
21	Planning An	U21AG506	м	м	н	н	н	L	н	м	м	L	м	н	н
	d Crew														
	Scheduling														
22	General Navi	U20AG507	м	м	н	н	н	н	L	м	М	м	L	н	н
	gation														
23	Dangerous g	U20AG508	м	м	н	н	н	н	L	м	м	м	L	н	н
	oods regulati														
	ons														
24	Investment	U22AG5:A	н	н	м	м	L	м	н	н	L	н	м	н	L
	Management														
25	Project	U22AG5:B	м	н	н	М	м	м	н	м	м	L	м	н	н
	Management														

26	Retail	U22AG5:C	м	М	н	н	н	L	н	м	м	L	м	н	н
	Management														
27	Interview	U20AG583	м	м	н	м	н	н	м	н	м	м	м	н	М
	Skills														
28	Strategic	U20AG609	м	м	н	м	L	м	L	м	L	L	L	м	н
	Management														
29	Research	U20AGP10	н	м	н	н	н	м	L	н	L	L	L	м	н
	Methodology														
	& Introducti														
	on to Statisti														
	cal Packages														
	(Theory and														
	Practical)														
30	Passenger	U21AG611	м	м	н	н	н	L	м	м	м	L	м	н	н
	Facilitation														
31	Ramp Servic	U21AG612	м	м	н	Н	н	L	м	м	L	М	м	м	н
	e														
	Management														

SEMESTER – I

S.NO	Course Title	Course Code
1.	Language I	U18TM1L1
2.	English Communication Skills-I	U21EGPL1
3.	Principles of Management	U20AG101
4.	Radio Communication	U21AG1Y1
5.	Familiarization of Airport and Aircraft	U20AG1Y2
6.	Value Education (RI / MI)	U15VL1:1/ U15VL1:2

Core I: PRINCIPLES OF MANAGEMENT

SEMESTER: I

CODE: U20AG101

CREDITS: 5

TOTAL HOURS: 75

HOURS/WEEK: 6

1. COURSE OUTCOMES :

On Completion of this course, the student will be able to,

S. No	Course Outcomes	Level	Unit Covered
1	Comprehend the principles, theories of Management.	K2	Ι
2	Accomplish the given tasks effectively and to handle situations which may arise in management	К3	II
3	Identify the various functional activities prevailing in the organizations	К3	III
4	Discuss and communicate the management evolution and how it will affect future managers	K2	IV
5	Practice the process of management's four functions: planning, organizing, leading, and controlling	К3	V
6	Evaluate leadership styles to anticipate the consequences of each leadership style	К2	IV

2A. SYLLABUS

UNIT-I INTRODUCTION

Introduction - The development of management thoughts - Functions of a Manager.

UNIT-II PLANNING

Planning - Meaning and definition of Planning - Nature and purpose of Planning - Objectives of Planning - Types of Planning - Operational and strategic planning - Steps in planning - Limitations - Authority - Delegation (Definition) - Centralization and Decentralization.

UNIT-III ORGANIZATIONAND STAFFING

Organisation -Organization theory - Organization structure - Staffing - Definitions – Objectives - Merits and Demerits.

UNIT IV-DIRECTING

15 Hours

15 Hours

15 Hours

Directing - Concept of Direction - Role theory and role analysis - Hawthorne studies -Contributions of Taylor, Henry Fayol, Elton Mayo, Gilbreth Maslow, Peter Drucker, Mintzberg - Morale and motivation - Co-ordination

UNIT V-CONTROL

15 Hours

Controlling - Function - Steps - Budgeting - Reviewing.

2B. TOPICS FOR SELF STUDY

S. No	Topics	Web Links
1	Management of Technology and Innovation	http://maryannfeldman.web.unc.edu/files/2011/11/Co ntribution-of-Public-Entities_2008.pdf
2	Vroom's Expectancy Theory	https://www.yourcoach.be/en/employee-motivation- theories/vroom-expectancy-motivation-theory.php
3	Career Development in Management	https://www.businessmanagementideas.com/human- resource-management-2/career-development/what-is- career-development/20203
4	Likert's Management System	https://www.businessballs.com/organisational- culture/likerts-management-systems/

2C. TEXT BOOKS:

- 1. L M Prasad, Principles of Management,9th Edition, Sultan Chand & Sons, 2015.
- 2. T. Ramasamy, Principles of Management, Himalaya Publishing House, 2016

2D. REFERENCE BOOKS:

- 1. Shrelekar, Principles of Management, 1st Edition, Himalaya Publishing house, 2017
- 2. DinkarPagare ,Business Management , 5th edition, Sultan chand& Sons, 2013
- 3. Tripathi and Reddy Principles of Management, 5th Edition, McGraw Hill, 2012
- 4. Koontz and O Donnel (TMH), Essentials of Management, 5th Edition, Tata McGraw Hill, 1990
- 5. Dr. S C Saxena, Modern Business Organization, Sahitiya Bhawan Publications, 2000

3. SPECIFIC LEARNING OUTCOMES (SLO):

UNIT	COURSE CONTENTS	LEARNING OUTCOMES	TAXONOMY LEVEL
Ι		INTRODUCTION	

1.1.0	Introduction	Define Management	K1
1.1.1	The development of management thoughts	List the development of management thoughts	K2
1.1.2	Functions of a Manager.	Demonstrate the applicability of the dimensions	К2
II		PLANNING	
2.1.0	Planning	Illustrate the meaning of planning	K1
2.1.1	Meaning and definition of Planning	Recall the definition of planning	К2
2.1.2	Nature and purpose of Planning	Demonstrate the nature and purpose of planning with examples	К2
2.1.3	Objectives of Planning	List the objectives of planning	К2
2.1.4	Types of Planning	Classify the different types of planning	К2
2.1.5	Operational and strategic planning	К2	
2.1.6	Steps in planning	Outline the steps in planning	K2
2.1.7	Limitations	Relate the limitations with objectives of planning	К2
2.2.0	Authority	Explain the meaning of authority	K2
2.2.1	Delegation (Definition)	Explain the meaning of delegation	K2
2.2.2	Centralization and Decentralization	Define Centralization and Decentralization	К2
III	ORG	ANIZATION AND STAFFING	
3.1.0	Organization	Explain about Organization.	K1
3.1.1	Organization theory	Demonstrate the organization theory	K2
3.1.2	Organization structure	Explain the importance organization structure	К2
3.2.0	Staffing	Explain the meaning of staffing	K2

3.2.1	Definitions	Recall the definition of staffing	K2						
3.2.2	Objectives	Explain the objectives of staffing	K2						
3.2.3	Merits and Demerits	List the merits and demerits	K2						
IV	DIRECTING								
4.1.0	Directing	Explain the importance of Directing	K1						
4.1.1	Concept of Direction	Recall the nature of direction	K1						
4.1.2	Role theory and role analysis	Define role theory	K1						
4.1.3	Hawthorne studies	Show Hawthorne experiments	K2						
4.1.4	Contributions of Taylor, Henry Fayol, Elton Mayo, Gilbreth Maslow, Peter Drucker, Mintzberg	Illustrate the functions of manager	K2						
4.1.5	Morale and motivation	Define morale and motivation	K2						
4.1.6	Co-ordination	Define Coordination	K1						
V		CONTROL							
5.1.0	Controlling	Define Controlling	K1						
5.1.1	Function	Illustrate the function and uses of controlling	K2						
5.1.2	Steps	List the steps in controlling	K2						
5.1.3	Budgeting	Compare budgetary control and non- budgetary control	K2						
5.1.4	Reviewing	Illustrate the importance of reviewing	K2						

4. MAPPING:

	PROGRAMME OUTCOMES								PROGRAMME SPECIFIC OUTCOMES				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	Н	М	М	Н	Н	М	М	М	Н	М	L	М	М
CO2	Н	М	Н	Н	М	М	М	Н	М	L	-	Н	М
CO3	М	М	Н	М	М	L	М	Н	-	М	М	Н	М
CO4	Н	М	М	М	L	М	L	Н	L	-	L	Н	М
CO5	Н	-	Н	М	L	М	-	М	L	М	-	Н	М
CO6	-	М	Н	Н	-	М	L	L	М	-	Н	М	М

5. COURSE ASSESSMENT METHODS

Direct

- 1. Continuous Assessment Test I,II
- 2. Open book test; Assignment; Seminar; Journal paper review, Group Presentation
- 3. End Semester Examination

Indirect

1. Course-end survey

Name of the Course Co-ordinator: Dr. S. M. Soundria

Allied II: RADIO COMMUNICATION

SEMESTER: I CREDITS: 4 HOURS/WEEK: 5

CODE: U21AG1Y1 TOTAL HOURS: 60

1. COURSE OUTCOMES :

On Completion of this course, the student will be able to,

S. No	Course Outcomes	Level	Unit Covered
1	Categorize the hierarchy of radio communication regularity authority	K4	Ι
2	Recall the basic term related to radio communication	K1	II
3	Explain the phrases used in aeronautical communication	K2	III
4	Identify the difference between height, altitude, elevation and flight level	K3	IV
5	Construct proper air – ground communication	K6	V
6	Explain the different Q codes	K2	IV

2A. SYLLABUS

UNIT I REGULATIONS

12 Hours

12 Hours

Duties of International Telecommunication Union (ITU), International Civil Aviation Organization (ICAO), Airport Authority of India (AAI), Wireless Planning and Coordination Wing (WPC), ICAO Annexure, Spelling of Alphabets and Transmission of numerical, Aircraft Identification, Location Indicators, Flight Information Regions (FIR), Identification of Ground Services.

UNIT II RADIO PROPAGATION

- (a) Relationship between wavelength, frequency and speed of light
- (b) Frequency bands and ranges
- (c) Ionosphere layers during day and night
- (d) Mode of Propagation MF, HF and VHF & above
- (e) Operation of Geostationary Satellites
- (f) Operation of Polar orbiting Satellites

Introduction to radio call format, Radio strength check call, Startup clearance and pushback clearance call, Taxi clearance call, ATC clearance call.

2B. TOPICS FOR SELF STUDY

S. No	Topics	Web Links			
1	Radio propagation principles	https://en.wikipedia.org/wiki/Radio_propagation			
2	Air ground communication	https://www.skybrary.aero/index.php/Air-			
	principles	Ground_Communication			
3	Common aviation	http://aviationknowledge.wikidot.com/aviation:aviation-			
	communication errors	communication-errors			

2C. REFERENCE BOOKS

- 1. Radio telephony, K.D. Tuli
- 2. Radio telephony manual by R.K. Bali
- 3. Air Regulation by R.K Bali

UNIT III PHRASEOLOGY

Phraseology used in Aeronautical Communication Services, Abbreviations used in Aeronautical Communication Services.

- (a) Distress
- (b) Distress Relay
- (c) Direction Finding
- (d) Flight Safety
- (e) Metrological
- (f) Flight regulatory

UNIT IV 'Q' CODES

'Q' Codes used in Aeronautical Communication Services, Basic Understanding of atmospheric pressure, QNH, QFE, QFF, QNE, Understanding difference between Height, Elevation, Altitude and Flight Level

UNIT V COMMUNICATION

(h) Choice of Frequencies during Day & Night

(g) Skip Distance

12 Hours

12 Hours

3. SPECIFIC LEARNING OUTCOMES (SLO):

UNIT	COURSE CONTENTS	LEARNING OUTCOMES	TAXONOMY LEVEL
Ι		REGULATIONS	
1.1	Duties of International tele communication union	Outline the duties of ITU	K2
1.2	International civil aviation organization	Summarize the function of ICAO	K2
1.3	Airport Authority of India	Explain the duties of AAI	К2
1.4	Wireless planning and coordination wing	Explain the responsibility of WPC	К2
1.5	Spelling of alphabets and transmission of numericals	Construct proper RT communication using aviation phonetics & transmission of numbers	К3
1.6	Aircraft Indentification	Interpret the necessity of aircraft Identification	К5
1.7	Location Indicator	Dissect the code and find out it's position	K4
1.8	Flight information region	Elaborate the facilities available with a FIR	K6
1.9	Identification of ground services	Identify the purpose of ground equipment using its call sign	К3
II		RADIO PROPAGATION	L
2.1.0	Relationship between wavelength, frequency and speed of light	Identify the relationship between wavelength, frequency, and speed of light	К3
2.1.1	Frequency band and ranges	List the frequency band and its ranges	K4
2.1.2	Ionosphere during day & night	Explain the changes in Ionosphere during day & night	К5
2.1.3	Mode of propagation	Choose the correct mode of propagation	К3
2.1.4	Operation of geo stationary satellite and polar orbiting satellite	Explain the working principle of geo stationary and polar orbiting satellite	К2
2.1.5	Skip distance	Recall the explanation of skip distance	K1
2.1.6	Choice of frequency	Choose the appropriate frequency to be	K3
	1	1	I

	during day & night	used during day and night	
III		PHRASEOLOGY	
3.1.0	Distress	Construct a distress communication	K3
3.1.1	Distress relay	Explain the procedure for distress relay	K2
3.1.2	Direction finding	Illustrate the working principle of direction finding	K2
3.1.3	Flight safety	Define flight safety	K1
3.1.4	Meteorological services	Summarize meteorological services	K2
3.1.5	Flight regularity	Define the rules & regulation during flight	K1
IV		'Q' Codes	
4.1.0	Q codes used in aeronautical communication services	List the different Q codes used in aviation	K4
4.1.1	Basic understanding of atmospheric pressure	Recall atmospheric pressure	K1
4.1.2	QNH, QFE, QFF, QNE	Elaborate 4 Q codes	K6
4.1.3	Understanding the difference between height, elevation, altitude, flight level	Identify the difference between height, elevation, altitude & flight level	К3
V		COMMUNICATION	
5.1.0	Introduction to Radio call format	Construct basic radio communication	K6
5.1.1	Radio strength check call	Construct radio strength check call	K6
5.1.2	Start up clearance & pushback clearance call	Construct startup clearance & pushback clearance call	K6
5.1.3	Taxi clearance call	Construct taxi clearance call	K6
5.1.4	ATC clearance call	Construct ATC clearance call	K6

4. MAPPING:

	PROGRAMME OUTCOMES								PF		ME SPEC	IFIC	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	н	М	М	М	М	М	Н	-	-	-	М	М	L
CO2	Н	М	Н	Н	М	М	Н	М	-	М	-	М	-
CO3	н	М	-	Н	М	М	М	-	-	М	Н	М	-
CO4	М	н	Н	Н	М	М	L	L	-	L	М	-	L
CO5	Н	Н	М	Н	Н	М	М	М	М	М	М	М	М
CO6	Н	М	Н	Н	Н	Н	М	Н	М	М	Н	М	L

5. COURSE ASSESSMENT METHODS

Direct

- 1. Continuous Assessment Test I, II
- 2. Open book test; Assignment; Seminar; Journal paper review, Group Presentation
- 3. End Semester Examination

Indirect

1. Course-end survey

Name of the Course Co-ordinator: Captain Loganathan

FAMILIARIZATION OF AIRPORT AND AIRCRAFT

SEMESTER: I CREDITS: 4 HOURS/WEEK: 5

CODE: U20AG1Y2 TOTAL HOURS: 60

1. COURSE OUTCOMES :

On Completion of this course, the student will be able to,

S. No	Course Outcomes	Level	Unit Covered
1	Distinguish the different structure of aircraft according to its construction	K4	Ι
2	Compare the Aerofoil structure and explain the working principle of carburettor	K2	II
3	Interpret the working principle of landing gear and its associated system	K2	III
4	Explain piston engine and its related system	K4	IV
5	Indentify the various parts within a Jet engine	К3	V
6	Define various terms related with pistion engine	K1	IV

2A. SYLLABUS

UNIT I - AIRCRAFT MODELS

Monocoque and Semi- Monocoque design

UNIT II - AIRFRAME & SYSTEMS

Types of Fuselage - Various Wing Structures - Control Surfaces - Airframe carburetor - fuel system - Gil System - Cooling System

UNIT III - LANDING GEAR, WHEEL BRAKES12 Hours

Main Landing Gears and different types of Shock Strut - Brake System.

UNIT IV - AIRCRAFT ENGINE (PISTON)

12 Hours

12 Hours

Piston engine components - Crankcase, Crankshaft, Camshaft, Bearings, Connecting Rod, Piston, Piston Rings, Four-Stroke engine cycle, Engine Handling, Normally aspirated, Turbo charging, Supercharging.

UNIT V - AIRCRAFT ENGINE (JET)

12 Hours

Propeller, Parts of Propeller, Types of Compressors - Axial, Centrifugal; Types of Combustion Chambers, gas turbine engine.

2B. TOPICS FOR SELF STUDY

S. No	Topics	Web Links
1	How fuel injector replaces	https://www.howacarworks.com/basics/how-a-
	conventional carburettor	fuel-injection-system-works
2	Different types of jet engine	https://www.thoughtco.com/different-types-of-jet- engines-1992017
3	Types of flaps	https://en.wikipedia.org/wiki/Flap_(aeronautics)

2C. REFERENCE BOOKS:

- Airframe and Power plant Mechanics Airframe Handbook (AC65 15A) by Shroff Publishers
- 2. Airframe and Power plant Mechanics Airframe Handbook (AC65 9A) by Shroff Publishers
- 3. Aeroplane Technical by Trevor Thom

3. SPECIFIC LEARNING OUTCOMES (SLO):

UNIT	COURSE CONTENTS	LEARNING OUTCOMES	TAXONOMY LEVEL					
Ι		AIRCRAFT MODELS						
1.1	Monocoque&semimonocoq	Compare different aircraft structure	K4					
	ue design							
II	l l l l l l l l l l l l l l l l l l l	AIRFRAME & SYSTEMS						
2.1.0	Types of fuselage	Shoe different models of aircraft	K1					
2.1.0		fuselage						
2.1.1	Various wing structure	Identify the wing structure for a	К3					
2.1.1		particular purpose						
2.1.2	Control surfaces	Explain how aircraft is manoeuvred	K2					
2.1.3	carburettor	Illustrate the working principle of	K2					

		carburettor	
2.1.4	Fuel system	Explain the working of fuel system	K2
2.1.5	Fin system	Explain the cooling system using fin	K2
	Cooling system	Determine the type of cooling	K5
2.1.6		system according to the purpose of	
		flight	
III	LAND	ING GEAR, WHEEL BRAKES	
	Main landing gear &	Explain the working of landing gear	K2
3.1.0	different types of shock	& shock struts	
	struts		
3.1.1	Brake System	Combine different braking action	K6
3.1.1		together	
IV	AIR	RCRAFT ENGINE (PISTON)	
4.1.0	Piston engine	Identify various components in	К3
4.1.0	components	piston engine	
4.1.1	Crank case	Explain the purpose of crank case	K2
4.1.2	Crank shaft	Illustrate the purpose of crank shaft	K2
4.1.3	Camshaft	Interpret the relationship between	K2
4.1.3		camshaft and valve timings	
4.1.4	Bearing	Distinguish the difference between	K4
		small end bearing and big end	
		bearing	
4.1.5	Connecting rod	Explain the purpose of connecting	K2
4.1.3		rod	
4.1.6	Piston	Illustrate the worling principle of	K2
4.1.0		piston	
4.1.7	Piston rings	Distinguish the purpose of various	K4
4.1.7		piston rings	
4.1.8	Four stroke engine cycle	Explain the 4 cycles of four stroke	K2
4.1.0		engine	
4.1.9	Engine handling	Demonstrate the importance of	K2
4.1.7		proper engine handling	
4.1.10	Normally Aspirated	Explain Normally Aspirated engine	K2
4.1.11	Turbocharger	Explain Compression of charge	K2
4.1.11		using Exhaust gas	
4.1.12	Supercharging	Explain Compression of charge	K2
7.1.12		using Engine power	
V	А	IRCRAFT ENGINE (JET)	
5.1.0	Propeller	Explain the principle of propeller	K2
5.1.1	Parts of propeller	Identify the different parts of	K3

		propeller	
5.1.2	Types of compressor	Identify the different types of	К3
5.1.2		compressor	
5.1.3	Axial, centrifugal	Discuss the pros and cons Both	K6
5.1.5		compressor	
514	Types of combustion	Indentify the different types of	K3
5.1.4	chamber	combustion chamber	
5.1.5	Gas turbine engine	Explain the gas turbine engine	K2

4. MAPPING:

	PROGRAMME OUTCOMES							PROGRAMME SPECIFIC OUTCOMES					
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	Н	L	М	М	М	-	М	М	М	М	М	М	М
CO2	М	Н	-	М	L	L	Н	Н	Н	L	Н	Н	Н
CO3	М	L	Н	Н	Н	Н	Н	М	М	L	-	L	Н
CO4	L	М	Н	Н	Н	Н	М	М	М	-	М	Н	М
CO5	М	М	Н	Н	-	L	М	М	М	-	L	М	М
CO6	М	М	Н	Н	Н	М	Н	L	М	М	М	Н	Н

5. COURSE ASSESSMENT METHODS

Direct

- 1. Continuous Assessment Test I,II
- 2. Open book test; Assignment; Seminar; Journal paper review, Group Presentation
- 3. End Semester Examination

Indirect

1. Course-end survey

Name of the Course Co-ordinator: Captain Aarthi Kumari

SEMESTER II

S.No	Course Title	Course Code
1.	Language II	U18TM2L2
2.	English Communication Skills-II	U21EGPL2
3.	Business Economics	U20AG202
4.	Business Mathematics & Statistics	U21AG2Y3
5.	Introduction to Cabin Crew Profession	U20AG2Y4
6.	Environmental studies	U16EST21

CORE II: BUSINESS ECONOMICS

SEMESTER-II

CODE: U20AG202

CREDITS: 4

TOTAL HOURS: 60

HOURS/WEEK: 6

1. COURSE OUTCOMES:

On completion of this course, the student will be able to,

S. No	Course Outcomes	Level	Unit Covered
1	Recollect the Concept of Demand, Supply analysis, consumer surplus, National income and functions of money, concepts of micro economics and to Relate the demand and supply conditions, able to understand the various micro economic principles to make effective economic decisions under conditions of risk and uncertainty	K1	I
2	Distinguish the types of market to predict the real- world business problems with a systematic theoretical framework	K4	III
3	Understand the roles of managers in firms to design competition strategies, including costing, pricing, product differentiation, and market environment according to the natures of products.	K2	II
4	Understand & evaluate the different market structure and their different equilibrium for industry as well as for consumers for the survival in the industry by the application of various pricing strategic.	K2, K5	III
5	Understand the Monetary and Fiscal Policy and able to Apply the Utility of Economics in Business Management &various techniques to forecast demand for better utilization of resources	K2	V
6	Analyze the macroeconomic concepts & their relation to micro economic concept & how they affect the business & economy	K4	IV

2A. SYLLABUS

UNIT-I INTRODUCTION

Introduction about demand analysis-Utility of Economics in Business management and industrial administration- Analysis of demand and supply, Law of Diminishing marginal utility- Concept of Consumer Surplus, Elasticity of demand- Indifference curve analysis. Returns to scale importance of increasing returns in industrial activity - Concepts of cost – concepts of elasticity of supply – forces governing the supply of production, land, Labor, capital and enterprise.

UNIT-II THEORIES OF DEMAND AND SUPPLY 12 H

Pricing function - Theory of firm – The problem of price fixation – the role of supply and demand- Concept of normal profit – sales maximization principle.

UNIT – III MARKET STRUCTURE

Types of market structure - Monopoly, Monopolistic competition, Imperfect competition, Oligopoly - Economics of Bulk purchase - Pricing strategies.

UNIT – IV INCOME

National Income - National Income - Circular flow of income-Measurement and difficulties in the measurement.

UNIT – V MONEY SUPPLY

Usage of Money- Functions of money – theories of money supply- Role of commercial banks – RBI – methods of credit control - Monetary and fiscal policy.

S. No	Topics	Web Links
1	Agricultural Economics	https://www.britannica.com/topic/agricultural- economics
2	Labour Economics	https://www.britannica.com/topic/labour-economics
3	Natural Resource Economics	https://courses.lumenlearning.com/boundless- economics/chapter/introduction-to-natural-resource- economics/

2B. TOPICS FOR SELF STUDY

12 Hours

12 Hours

12 Hours

12 Hours

2C. TEXT BOOK:

1. Varshney and Maheshwari, 2009, Managerial Economics, 6th Edition, Sultan Chand and Sons

2D. REFERENCE BOOKS:

1. M L Seth, Iswhwar Dhingra, P L Metha, 2008 Micro Economics, 7th Revised Edition, Sultan Chand and Sons.

- 2. G S Gupta, 2014, Macro Economics, 4th Edition, Tata McGraw Hill.
- 3. Dominik Salvatore, 2012, Managerial Economics, 7th Edition, Oxford publishers.

3. SPECIFIC LEARNING OUTCOMES (SLO):

UNIT	COURSE CONTENTS	LEARNING OUTCOMES	TAXONOMY LEVEL	
I	IN	TRODUCTION		
1.1.0	Introduction about demand	Recall about demand	K1	
1.1.0	analysis	analysis and Micro	KI	
	anarysis	Economics.		
1.1.1	Utility of Economics in	Illustrate the importance of	K2	
1.1.1	Business management and	economics in business and	112	
	industrial administration	industrial administration.		
1.1.2	Analysis of demand and supply	Explain the demand and	K2	
	5 11 5	supply analysis		
1.1.3	Law of Diminishing marginal	Explain the Law of	К2	
	utility	Diminishing marginal utility		
1.1.4	Concept of Consumer Surplus	Demonstrate the concept of	К2	
		consumer surplus		
1.1.5	Elasticity of demand	Illustrate Elasticity of	K2	
		demand		
1.1.6	Indifference curve analysis,	Demonstrate Indifference	K2	
	Returns to scale importance of	curve analysis, returns to		
	increasing returns in industrial	scale and increasing returns		
	activity	in industrial activity.		
1.1.7	Concepts of cost, concepts of	Demonstrate cost, concepts	K2	
	elasticity of supply – forces	· •		
	governing the supply of	forces governing the supply		
	production, land, Labour,	of production, land, Labour,		
	capital and enterprise.	capital and enterprise.		
II	THEORIES O	F DEMAND AND SUPPLY		

2.1.0	Pricing function	Illustrate pricing function	K2
2.1.1	Theory of firm – The problem of price fixation – the role of supply and demand	Explain the theory of firm and the problem in price fixation and role of supply and demand.	K2
2.1.2	Concept of normal profit – sales maximization principle	Demonstrate the concept of normal profit and explain sales maximization principle.	K2
III	MAR	KET STRUCTURE	
3.1.0	Types of market structure	Illustrate Types of market structure.	К2
3.1.1	Monopoly, Monopolistic competition, Imperfect competition, Oligopoly	Analyse the various market structure to make decisions.	К4
3.1.2	Economics of Bulk purchase	Illustrate Economics of Bulk purchase	К2
3.1.3	Pricing strategies.	Select appropriate Pricing strategies.	K4
IV	NAT	TIONALINCOME	
4.1.0	National Income – Circular flow of income	Demonstrate the Macro Economics, National Income and circular flow of income.	K2
4.1.1	Measurement and difficulties in the measurement.	Examine the difficulties in measuring national Income.	K4
V	М	ONEY SUPPLY	
5.1.0	Usage of Money	Explain the usage of money for various business activities.	К2
5.1.1	Functions of money – theories of money supply	Demonstrate the Functions of money – theories of money supply.	К2
5.1.2	Role of commercial banks – RBI – methods of credit control.	Explain the role of commercial banks and methods of credit control.	К2
5.1.3	Monetary and fiscal policy.	Illustrate about monetary and fiscal policy.	K2

4. MAPPING:

		PROGRAMME OUTCOMES							PROGRAMME SPECIFIC				
									OUTC	OMES			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	Н	Н	М	L	М	Н	Н	М	М	Н	Н	Н	М
CO2	Н	Н	M	M	L	M	Н	M	Μ	Н	Н	М	М
CO3	Н	Н	M	M	L	M	Н	M	Μ	М	Н	Н	М
CO4	Н	Н	Н	М	М	M	Н	Н	Μ	Н	Н	М	М
CO5	Н	М	Н	Н	Н	М	L	Н	М	М	Н	Н	М
CO6	Н	H	M	M	H	Н	Н	M	M	Н	Н	М	М

5. COURSE ASSESSMENT METHODS

Direct

- 1. Continuous Assessment Test I, II
- 2. Open book test; Assignment; Seminar; Journal paper review, Group Presentation
- 3. End Semester Examination

Indirect

1. Course-end survey

Name of the Course Co-ordinator: Mr. John Vimal

Allied III: BUSINESS MATHEMATICS & STATISTICS

SEMESTER-II CREDITS: 4 HOURS/WEEK: 5

CODE: U21AG2Y3 TOTAL HOURS: 60

1. COURSE OUTCOMES :

On completion of this course, the student will be able to,

S. No	Course Outcomes	Level	Unit Covered
1	Discuss the meaning of business mathematics and	K1	Ι
	understand its application in solving business problems		
2	Identify the types of data and classify the measures of central tendency	K2	II
3	Outline the various measures of dispersion	K1	III
4	Construct the uses of measures of dispersion in business	K4	III
5	Interpret the measures of skewness and kurtosis	К3	IV
6	Distinguish between correlation and regression	K4	V

2A. SYLLABUS

UNIT-I INTRODUCTION TO BUSINESS MATHS

12 Hours

12 Hours

Arithmetic and Geometric series, Application to Business problems, Matrix algebra, addition, Subtraction and Multiplication

UNIT-II INTRODUCTION TO STATISTICS & MEASURES OF CENTRAL TENDENCY 12 Hours

Introduction to Statistics, Nature and scope of statistics, Uses of Statistics in Business, Statistical Data-primary and secondary, Classification of data, Frequency distribution, Histogram, Frequency polygon, Frequency curve, Graphs and Diagrams, Bar diagrams, Pie Diagrams, Measures of central tendency, Mean, Median, Mode, Geometric mean, Harmonic mean, Uses of averages in Business

UNIT-III MEASURES OF DISPERSION

Measures of dispersion, Range, Quartile Deviation, Mean Deviation, Standard Deviation, Coefficient of variation, Uses in Business

UNIT-IV SKEWNESS AND KURTOSIS (Only Theory)

Skewness, Meaning, Bowley'sco efficient of skewness, Pearson's coefficient of skewness, Kurtosis, Definition, Meaning, Types

UNIT-V CORRELATION AND REGRESSION 12 Hours

Simple Correlation, Karl Pearson, Spearman's Rank Correlation, Concurrent deviation, Regression lines, Trend lines, Method of least squares

2B. TOPICS FOR SELF STUDY

S. No	Topics	Web Links
1	Logarithms	https://www.britannica.com/science/logarithm
2	Permutation and Combination	https://www.britannica.com/science/permutation
3	Probability	https://mathworld.wolfram.com/Probability.html

2C. TEXT BOOKS:

1. P. Navaneethan, 2015, Business Statistics, 6th Edition, Jai Publishing house.

- 2. P. R. Vital, 2012, Business Mathematics, Margham Publishing.
- 3. P. Ramaraj & S.ManjuBharathi, 2018, Business Maths & Statistics

2D. REFERENCES BOOKS:

1. R.S.N. Pillai and Bagavathi, 2009, Statistics: Theory and Practice, 7th Revised Edition, S. Chand and Sons.

2. S.P Gupta, 2012, Fundamental of Mathematical Statistics, 1stEditon, Sultan Chand Publications.

3. Levin, Rubin, 1998, Statistics for Management, 7th Edition, Pearson Publication.

3. SPECIFIC LEARNING OUTCOMES (SLO):

UNIT	COURSE CONTENTS	LEARNING OUTCOMES	TAXONOMY				
			LEVEL				
	UNIT-I INTRODUCTION TO BUSINESS MATHS						
1.1	Arithmetic and	Define Arithmetic, Geometric Series	K1				
	Geometric series	and analyse its Application to					
		Business problems					
1.2	Application to Business	Compute problems relating to the	K1				
	problems	concepts					

1.3	Matrix algebra - Addition, Subtraction, Multiplication	Identify the various matrix operations.	K2
UN	IT-II INTRODUCTION	FO STATISTICS & MEASURES OF C TENDENCY	ENTRAL
2.1	Introduction to Statistics	Demonstrate the concept of statistics and list out its importance	K2
2.1.1	Nature and scope of statistics	Identify the scope of statistics	K2
2.1.2	Uses of Statistics in Business	Define Statistical data	K1
2.1.3	Statistical Data- primary and secondary, Classification of data	Classify the types of data and identify the methods to collect them	K1
2.1.5	Frequency distribution, Histogram	Explain the method of drawing a histogram	К3
2.1.6	Frequency polygon Frequency curve	Demonstrate the method of drawing a frequency polygon and frequency curve	K2
2.2	Graphs and Diagrams Bar diagrams Pie Diagrams	Show the types of Graphs and Diagrams using problems	K4
2.3	Measures of central tendency Mean, Median, Mode	List out their advantages and disadvantages of measures of central tendency	К2
2.3.1	Geometric mean Harmonic mean	Explain the concepts of Geometric mean and Harmonic mean	K2
2.4	Uses of averages in Business	Make use of averages in business	К3
	UNIT-III N	MEASURES OF DISPERSION	
3.1	Measures of dispersion	Define measures of dispersion	K1
3.1.1	Range	Explain the merits and demerits of Range	K2

3.1.2	Quartile Deviation	Demonstrate the computation of quartile	K2
		deviation in individual, discrete and	
		continuous series	
3.1.3	Mean Deviation	Compute mean deviation using	К3
		individual, discrete and continuous series	
3.1.4	Standard Deviation	Compute standard deviation using	K3
		individual, discrete and continuous series	
3.1.5	Co-efficient of	Explain the meaning of Co-efficient of	K2
	variation, Uses in	variation.	
	Business		
UNIT-IV SKEWNESS AND KURTOSIS (Only Theory)			
4.1	Skewness -Meaning	Classify the measures of skewness	K2
4.1.1.	Bowley's coefficient of	Explain Bowley's coefficient of	K2
	skewness	skewness.	
4.1.2	Pearson's coefficient of	Define Pearson's coefficient of	K1
	skewness	skewness.	
4.2	Kurtosis - Definition,	Identify the types of kurtosis	K3
	Meaning,		
	Types		
UNIT-V CORRELATION AND REGRESSION			
5 1			IZ1
5.1	Simple Correlation	Define correlation	K1
5.1.1	Karl Pearson	Explain the Karl Pearson	K2
3.1.1	Kall i Carson	co-efficient of correlation	K2
5.1.2	Spearman's Rank	Examine method of calculating	K4
0112	Correlation	Spearman's Rank Correlation	
5.1.3	Concurrent deviation	Identify the concurrent deviation	К3
5.2	Regression lines	Illustrate the methods of regression	К2
	_		
5.2.1	Trend lines	Make use of trend lines	K3
5.2.1	Method of least squares	Apply the method of least squares	K3

		PROGRAMME OUTCOMES								PRO	GRAMM OUTCO		FIC
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	н	н	н	н	М	L	Н	М	L	н	М	М	Н
CO2	н	н	н	н	М	М	М	н	L	н	Н	М	М
CO3	н	М	L	н	М	М	н	Н	М	Н	Н	н	М
CO4	Н	Н	М	Н	М	М	Н	М	L	М	М	Н	Н
CO5	Н	Н	М	Н	Н	М	Н	Н	М	Н	Н	М	Н
CO6	н	н	н	н	н	М	М	М	М	М	н	н	М

5. COURSE ASSESSMENT METHODS

irect	
1. Continuous Assessment Test I,II	
2. Open book test; Assignment; Seminar; Journal paper review, Grou Presentation	р
3. End Semester Examination	
ndirect	
1. Course-end survey	

Name of the Course Co-ordinator: Mr. P. Ramaraj

INTRODUCTION TO CABIN CREW PROFESSION

SEMESTER-II CREDITS: 4 HOURS/WEEK: 5

COURSE CODE: U20AG2Y4 TOTAL HOURS: 60

1. COURSE OUTCOMES :

On Completion of this course, the student will be able to,

S. No	Course Outcomes	Level	Unit Covered
1	Explain the history and basic qualification to be a cabin crew	K2	Ι
2	Prioritize the necessary things for a cabin crew	K5	II
3	Choose the correct lifestyle to be healthy	K6	III
4	Categirize the roles and responsibility of a cbin crew	K4	IV
5	Outline the international rules and regulation related to aviation	K2	V
6	Apply the grooming technique	K3	II

2A. SYLLABUS

UNIT I – CABIN CREW PROFESSION

History and origin of cabin crew profession – Qualifications and training required – Key skills for cabin crew – Benefits and Challenges of working as cabin crew.

UNIT II – CABIN CREW LIFE STYLE

Cabin crew make-up, Jewellery and Hygiene – Uniforms and Presentation – Personal presentation when working as cabin crew – Living style – The work and Life balance.

12 Hours

12 Hours

UNIT III – HOW TO STAY HEALTHY

Tips for Diet – Tips to keep fabulous hair styles in check – Tips to choose to right skin care product – Best ways to tackle cabin crew tiredness.

UNIT IV – ROLE AND RESPONSIBILITIES AS CABIN CREW 12 Hours

Overview – Responsibilities – Cabin crew responsibilities in the galley – pre-flight safety demonstration – Role of Cabin crew in various emergency situations – Role of Cabin crew in emergencies and case study of actual air disasters.

UNIT V – RULES AND REGULATIONS

Aircraft rules 1937 – Duties of Pilot-in-command - Aircraft rules 38(B), 1937 – Carriage of cabin crew flight time and flight duty time limitation, CAR SECTION 7-Prohibition of intoxication while duty onboard, Aircraft Rule 24.

2B. TOPICS FOR SELF STUDY

S. No	Topics	Web Links
1	Cabin crew emergency	https://www.skybrary.aero/index.php/Cabin_Crew-
	communication inflight	Flight Crew Emergency Communication
2	Grooming tips for cabin crew	https://www.skybrary.aero/index.php/Cabin_Crew-
		Flight Crew Emergency Communication
3	Cabin crew job description	https://www.prospects.ac.uk/job-profiles/air-cabin-crew

2C. REFERENCE BOOKS:

R.K.Bali - Navigation

Ground Studies for Pilots - Navigation

Oxford - General Navigation

12 Hours

UNIT	COURSE CONTENTS	LEARNING OUTCOMES	TAXONOMY
		LEVEL	
Ι	CA	ABIN CREW PROFESSION	
1.1	History and orgin of cabin crew profession	Outline the history of cabin crew	K2
1.2	Qualification and training required	Summarize the required qualification to be a cabin crew	K2
1.3	Key skills for cabin crew	Prioritize the skills required for cabin crew	K5
1.4	Benefits and challenges of working as cabin crew	Examine the challenges and benefits to be a cabin crew	K5
II	C	ABIN CREW LIFE STYLE	
2.1.0	Cabin crew make up, jewellery & hygiene	Select the type of grooming to be carried	K5
2.1.1	Uniform and presentation	Plan the way of presentation	K3
2.1.2	Personal presentation when working as cabin crew	Develop the personal presentation	K6
2.1.3	Living style	Improve the living style	K6
2.1.4	The work & life balance	Organize life and work properly	K3
III	Н	OW TO STAY HEALTHY	-
3.1.0	Tips for diet	Make use of healthy diet	K3
3.1.1	Tips to keep fabulous hair style in check	Choose a hair style which suits them	К3
3.1.2	Tips to choose right skin care product	Choose a product wisely	К3
3.1.3	Best way to tackle cabin crew tiredness	Solve the problem of fatigue	K3
IV	ROLE AND R	ESPONSIBILITIES AS CABIN CRE	EW
4.1.0	Overview	Outline the responsibility of cabin crew	K2
4.1.1	Responsibility	Summaries the responsibility of cabin crew	K2
4.1.2	Cabin crew responsibility in the	Organize the work around galley	К3

	galley					
	Roles of cabin crew in	Discuss the emergency procedure	K6			
4.1.3	various emergency					
	situation					
4.1.4	Roles of cabin crew in	Examine the reason for abnormal	K4			
	emergency &case study of	situation				
	actual air disaster					
V	RULES AND REGULATIONS					
5.1.0	Aircraft rule 1937	Outline the rules imposed in aircraft	K2			
5.1.0		act 1937				
5.1.1	Duties of PIC	Ecplain the roles of PIC	K2			
5.1.2	Aircraft rule 38(B), 1937	Outline the aircraft rule imposed in	K2			
3.1.2		aircraft rule 38(B) 1937				
512	Flight time, Flight duty time	Plan his/her flight time / Flight duty	K3			
5.1.3	limitations	time				
511	Prohibition of alcohol while	Decide things which are prohibited	K5			
5.1.4	on duty	during flight				

	PROGRAMME OUTCOMES							PROGRAMME SPECIFIC OUTCOMES			IFIC		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	Н	L	М	М	М	-	М	М	М	М	М	М	М
CO2	М	Н	-	М	L	L	Н	Н	Н	L	Н	Н	Н
CO3	М	L	Н	Н	Н	Н	Н	М	М	L	-	L	Н
CO4	L	М	Н	Н	Н	Н	М	М	М	-	М	Н	М
CO5	М	М	Н	н	-	L	М	М	М	-	L	М	М
CO6	М	М	Н	Н	Н	М	Н	L	М	М	М	Н	Н

5. COURSE ASSESSMENT METHODS

Direct

- 1. Continuous Assessment Test I,II
- 2. Open book test; Assignment; Seminar; Journal paper review, Group Presentation
- 3. End Semester Examination

Indirect

1. Course-end survey

Name of the Course Co-ordinator: Captain Priya

SEMESTER III

S.No	Course Title	Course Code
1.	Language III	U18TM3L3
2.	English for competitive examination	U17EGCL3
3.	Management Accounting-I	U20AG303
	Sales and Distribution Management (Elective-I)	U22AG3:A
	Total Quality Management (Elective-I)	U22AG3:B
5.	Air Regulations	U20AG3Y5
6.	Computer Application in Business-I (Theory and Practical)	U20AGPS1
7.	Fundamentals of Management	U20AG3E1

CORE-III: MANAGEMENTACCOUNTING -I

SEMESTER-III CREDITS: 4 HOURS/WEEK: 5

CODE: U20AG303 TOTAL HOURS: 60

1. COURSE OUTCOMES :

On completion of this course, the student will be able to

S.	Course Outcomes	Level	Unit Covered
No			
1	Understand the elements, uses, and limitations of financial statements.	K1	Ι
2	Illustrate the importance of final accounts and the purpose they serve.	K2	II
3	Make use of final account statement to determine the profit & loss of the firm.	К3	II
4	Explain about the meaning, objectives and scope of management accounting.	K2	III
5	Apply tools and techniques of Ratio analysis used to plan, control and make decision.	К3	IV
6	Utilize the fund flow statement to identify cash inflow and outflow in a firm.	К3	V

2A. SYLLABUS

UNIT-IINTRODUCTION TO FINANCIAL ACCOUNTING 12 hours

Accounting - Definition of account – Nature - Objects and utility of accounting in industrial and business enterprise, Books of accounts - Accounting concepts - Theory of double entry system - Book keeping - Journal – Ledgers - Subsidiary books - Trial balance

UNIT-II FINAL ACCOUNTS

Statements of accounts - Trading account - Profit and loss account - Balance sheet (with simple adjustments)

UNIT-III INTRODUCTION TO MANAGEMENT ACCOUNTING 12 hours

12 hours

Management accounting - Meaning – Objectives - Scope of management accounting and financial accounting - Difference between Management and cost accounting - Uses and limitation of management accounting

UNIT-IV RATIO ANALYSIS

12 hours

12 hours

Analysis and interpretation of financial statement thought accounting ratios - Liquidity Ratio - Solvency Ratio - Profitability Ratio - Significance of various ratios and their computation - Uses and limitations of ratios.

UNIT-V FUND FLOW ANALYSIS

Fund flow analysis - Concept of funds - Sources and uses of funds - Concepts of flow - Fund flow statements - Management use of fund analysis - Construction of fund flow statements (Simple Problems)

2B.	TOPICS	FOR	SELF	STUDY
	101108		~	~ ~ ~ ~ ~

S. No	Topics	Web Links
1	Cash Flow Statement	https://nptel.ac.in/content/storage2/courses/110101004/ downloads/Lecture%20Notes/module6/lec1.pdf
2	Budgeting	https://nptel.ac.in/courses/110/101/110101004/
3	Decision Making Using Financial Statement	https://nptel.ac.in/courses/110/106/110106135/

2C. TEXT BOOKS:

1.R.S.N. Pillai & Bagavathi, 2012, Management Accounting, Third edition, S. Chand Publishers

3. Dr. R. Ramachandran & Dr. R. Srinivasan, 2012, Management Accounting, Reprint, Sriram Publication

2D. REFERENCE BOOKS:

1. Jain S.P & Narang K.L, 2014, Principles of Accountancy, Kalyani Publishers

2. R.L. Gupta & V.K. Gupta, 2014, Financial Accounting, Eighth edition, Sultan Chand and Sons

UNIT	COURSE CONTENT	LEARNING OUTCOMES	TAXONOMY LEVEL					
UNIT I INTRODUCTION TO FINANCIAL ACCOUNTING								
1.1.0	Accounting	Recall various concepts of accounting	K1					
1.1.1	Definition of accounting	Define Accounting	K1					
1.1.2	Nature of accounting	Recall the nature of accounting	K1					
1.1.3	Objectives and utility of accounting in industrial and business enterprise	Explain the objectives and utility of accounting in industrial and business enterprise	К2					
1.2.0	Books of Accounts	Recall the books of accounts	K1					
1.2.1	Accounting concepts	Explain the various Accounting concepts	K2					
1.2.2	Theory of double entry	Recall the theory of double entry	K1					
1.2.3	Book keeping	Explain the importance of book-keeping	К2					
1.2.4	Journal	Apply golden rules to frame the Journal	К3					
1.2.5	Ledger	Construct Ledger for different accounts	К3					
1.2.6	Subsidiary books	Make use of different type of subsidiary books	К3					
1.2.7	Trial balance	Utilize Trial Balance to check arithmetical accuracy	К3					
	l	UNIT-II FINAL ACCOUNTS						
2.1.0	Statement of Accounts	Illustrate the importance of statement of accounts	K2					
2.1.1	Trading account	Make use of Trading account and with adjustment to determine to gross profit/loss of the firm.	К3					

2.1.2	Profit and loss account	Make use of P&L account and with adjustment to determine to net profit/loss of the firm.	К3
2.1.3	Balance sheet (with simple adjustments)	Make use of balance sheet and with adjustment to determine to financial position of the firm.	К3
	UNIT-III INTROD	UCTION TO MANAGEMENT ACCOU	NTING
3.1.0	Management Accounting	Explain the importance of management accounting	K2
3.1.1	Meaning	Explain the meaning of Management Accounting	К2
3.1.2	Objectives	Summarize the objectives of Management Accounting	K2
3.1.3	Scope of management accounting	Explain the Scope of management accounting	К2
3.1.4	Difference between management accounting and financial accounting	Compare management accounting and financial accounting	К2
3.1.5	Difference between management accounting and cost accounting	Compare management accounting and cost accounting	К2
3.1.6	Uses and limitation of management accounting	Explain the uses and limitation of Management accounting	К2
		UNIT-IV RATIO ANALYSIS	
4.1.0	Analysis and interpretation of financial statement thought accounting ratios	Illustrate the Analysis and interpretation of financial statement thought accounting ratios	K2
4.1.1	Liquidity Ratio	Analyze the liquidity position of the firm by using Liquidity ratio	K4
4.1.2	Solvency	Analyze the firm's ability to pay its debt obligations by using Solvency ratio	K4

4.1.3	Profitability	Analyze the firm's ability to generate income by using Profitability ratio	K4
4.1.4	Significance of various ratios and their computation	Explain the significance of various ratios and their computation	K2
4.1.5	Uses and limitations of ratios	Explain the Uses and limitations of ratios	K2
	UN	IT-V FUND FLOW ANALYSIS	
5.1.0	Fund flow analysis	Explain the fund flow analysis	K2
5.1.1	Concept of funds	Summarize the concepts of funds	K2
5.1.2	Sources and uses of funds	Illustrate the governess and uses of funds	
5.1.3	Concepts of flow	Explain the concepts of flow	K2
5.1.4	Fund flow statements	Analyze the sources and applications of fund.	K4

	PROGRAMME OUTCOMES									PRO	OGRAMN OUTC	IE SPEC	IFIC
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	Н	-	L	Н	-	-	-	Н	L	М	М	М	L
CO2	Н	-	М	Н	М	-	-	Н	М	М	Н	Н	L
CO3	Н	М	Н	Н	М	М	L	Н	Н	Н	Н	Н	Н
CO4	L	L	М	М	-	-	L	Н	М	М	М	М	L
CO5	Н	Н	Н	Н	М	М	М	Н	Н	Н	Н	Н	Н
CO6	Н	М	Н	Н	М	М	М	Н	Н	Н	Н	Н	Н

5. COURSE ASSESSMENT METHODS

Direct

- 1. Continuous Assessment Test I,II
- 2. Open book test; Assignment; Seminar; Journal paper review, Group Presentation
- 3. End Semester Examination

Indirect

1. Course-end survey

Name of the Course Co-ordinator: Ms. Manju Bharathi

ER-III CODE: U2

ELECTIVE I: SALES AND DISTRIBUTION MANAGEMENT

SEMESTER-III CREDIT: 5 HOURS/WEEK: 5

CODE: U22AG3:A TOTAL HOURS: 75

1. COURSE OUTCOMES :

On Completion of this course, the student will be able,

S.	Course Outcomes	Level	Unit Covered
No			
1	Illustrate about the evolution of sales concept	K2	Ι
2	Classify the working structure of Sales management	K2	Ι
3	Outline the different types of Sales force	K2	Π
4	Apply the concepts learnt to Sales management using basics concepts of marketing	К3	III
5	Explain how the Legal aspect of sales has changed recently	K2	IV
6	Identify about selection of warehouse location	K3	V

2A. SYLLABUS

UNIT-I SALES MANAGEMENT

Sales Management, Organization of sales management, Recruitment of sales force, Training of sale quota.

UNIT-II MANAGING THE SALES FORCE

Managing the Sales force, Performance Evaluation of Sales Force, Compensation of sales force

UNIT-III DISTRIBUTION MANAGEMENT

15 Hours

15 Hours

15 Hours

Distribution Management - Members of Distribution Channels, Stockiest, Wholesaler, Retailer, Dealer, Appointment of dealers and other members, Role of channel members in promoting sales.

UNIT-IV LEGAL ASPECTS 15 Hours

Legal aspects in sales management, GST, Pricing structure

UNIT-V WAREHOUSING

15 Hours

Warehousing, Locations and Functions

2B. TOPICS FOR SELF STUDY

S. No	Topics	Web Links
1	Supply side analysis	https://www.thebalance.com/supply-side-economics- does-it-work-3305786
2	Channel structure and intensity	https://courses.lumenlearning.com/boundless- marketing/chapter/channel-strategy-decisions/
3	Distribution channel strategy	https://yourbusiness.azcentral.com/distribution- channel-strategies-9101.html

2C. TEXT BOOK:

1. Field Sales Management - S Ramachandran (Publisher & Edition)

2D. REFERENCE BOOKS:

- 1. Sales Management Richard Still, W D Cundiff Prentice Hall
- 2. Field Sales Manager New Gardner
- 3. Physical Distribution Management Bower Sox, Smykay, Lalond.
- 4. Physical Distribution Management RL Wanworth Ed.
- 5. Logistics of Distribution Systems Mossman and Norton

UNIT	COURSE CONTENTS	LEARNING OUTCOMES	TAXONOMY LEVEL
Ι	IN	TRODUCTION	
1.1.0	Sales Management	Define Sales Management	K1

1.1.1	Organization of sales management	Illustrate the organisation of sales management	K2						
1.1.2	Recruitment of sales force	Explain the recruitment of sales force	K2						
1.1.3	Training of sales force	Explain about the training of sales force	K2						
1.1.4	Sales Quota	Define sales quota	K1						
II	MANAGING THE SALES FORCE								
2.1.0	Managing the Sales force	Explain about managing the sales force	K2						
2.1.1	Performance Evaluation of Sales Force	Explain about the evaluation of sales force performance	K2						
2.1.2	Compensation of sales force	Explain about the compensation of sales force.K							
III	DISTRIBU	TION MANAGEMENT							
3.1.0	Distribution management	Explain about the distribution management.K3							
3.1.1	Retailer	Explain the importance and role of Retailers in sales management	K4						
3.1.2	Dealer	Explain the importance and role of Dealers in sales management	K4						
3.1.3	Appointment of dealers and other members	Demonstrate the appointment of dealers	K2						
3.1.4	Role of channel members in promoting sales	Explain the role of channel members in sales	K4						

		management	
IV	LEGAL ASP	ECTS IN SALES MANAGEMENT	
4.1.0	Legal aspects in sales management	Explain about the legal aspects I sales	K2
4.1.1	GST	Illustrate the recent changes in sales after GST	K4
4.1.2	Pricing structure	Demonstrate the members to be involved in setting the price	K2
V		WAREHOUSING	
5.1.0	Warehousing	Explain the process involved in Warehousing	K2
5.1.1	Locations and Functions	Demonstrate the principles involved selecting location for warehouse	K2
5.1.2	Types of warehousing	Explain the different types of warehouse	K2

	PROGRAMME OUTCOMES								PROGRAMME SPECIFIC OUTCOMES				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	Н	М	М	М	L	М	М	L	L	L	М	L	М
CO2	М	Н	Н	М	М	М	М	Н	М	М	L	М	Н
CO3	М	М	М	Н	М	L	М	М	М	М	М	М	Н
CO4	М	L	М	L	М	М	L	М	Н	М	М	Н	Н
CO5	М	М	М	М	Н	М	L	М	М	М	М	Н	М
CO6	М	Н	М	М	Н	М	М	L	М	M	М	Н	L

5. COURSE ASSESSMENT METHODS

Direct	
1.	Continuous Assessment Test I,II
2.	Open book test; Assignment; Seminar; Journal paper review, Group Presentation
3.	End Semester Examination

Indirect

1. Course-end survey

Name of the Course Co-ordinator: Mr. Jimmy Carter

Elective I: TOTAL QUALITY MANAGEMENT

SEMESTER: III

CODE: U22AG3:B

CREDITS: 5

TOTAL HOURS: 75

HOURS/WEEK: 5

1. COURSE OUTCOMES:

On completion of this course, the student will be able to,

S. No	Course Outcomes	Level	Unit Covered
1	Identify the importance of Quality Management in an organization	К3	Ι
2	Demonstrate the importance of Vision, Mission and Quality Policy Statements of the organizations to improve and maintain quality	К2	II
3	Make use of the old and new seven quality improvement tools to improve and maintain quality in an organization	К3	III
4	Apply the concept of Kaizen, 5S, quality circles and benchmarking in the quality improvement process of organizations	К3	IV
5	Illustrate the use of Just in Time methodology in manufacturing companies	K2	IV
6	Analyse the prevailing conditions and provide solutions to enhance the organizations' quality standards	К5	V

2A. SYLLABUS

UNIT-I INTRODUCTION

Definition of TQM, Evolution of TQM, Principles of TQM, Dimensions of Quality, Various definition of Quality

UNIT-II QUALITY PHILOSOPHIES

15 Hours

15 Hours

55

Quality Philosophies - Deming, Juran, Models of TQM, Leadership vision, Mission and Quality Policy Statements.

15 Hours

15 Hours

UNIT-III QUALITY TOOLS

Quality Improvement Tools, The Seven Statistical Tools, The New Seven Tools.

UNIT-IV QUALITY PROCESS

Kaizen, 5S Process, Quality Circles, SPC, TPM, JIT, Bench Marking.

UNIT-V QUALITY MANAGEMENT SYSTEMS 15 Hours

Quality Management Systems, Requirements and principles of QMS, ISO 9000 Series,

2B. TOPICS FOR SELF STUDY

S. No	Topics	Web Links
1	Six Sigma	https://asq.org/quality-resources/six- sigma#:~:text=Six%20Sigma%20is%20a%20method, quality%20of%20products%20or%20services.
2	Quality Management in Software industry	https://www.tutorialspoint.com/software_quality_man agement/software_quality_management_introduction. htm
3	Cost reduction through Quality approach	https://www.metricstream.com/insights/costofPoorQu ality_home.htm

2C. TEXT BOOKS:

1. Poornima M. Charantimath, 2003, Total Quality Management, Third Edition, Pearson Education.

2. Suganthi L, Anand A. Samuel, 2004, Total Quality Management, New title edition, Prentice Hall India Learning Private Limited.

2D. REFERENCE BOOK:

1. Dale H. Besterfield, 2015, Total Quality Management, Fourth edition, Pearson Education India.

UNIT	COURSE CONTENTS	LEARNING OUTCOMES	TAXONOMY LEVEL
I		INTRODUCTION	
1.1.0	Definition of TQM	Define Total Quality	K1
		Management	
1.1.1	Evolution of TQM	Illustrate the importance given to	K2
		quality over the time	
1.1.2	Principles of TQM	Explain the principles of quality	K2
1.1.3	Dimensions of Quality	Demonstrate the applicability of	K2
		the dimensions	
1.1.4	Various definition of	Define quality from various	K1
	Quality	aspects	
II	Q	UALITYPHILOSOPHIES	
	Quality Philosophies	Illustrate the applications of	K2
2.1.0		quality philosophies in	
		organizations	
0.1.1	Deming	Explain the use of these	K2
2.1.1		principles in companies	
0.1.0	Juran	Demonstrate the use of Juran	K2
2.1.2		philosophies in companies	
0.1.0	Models of TQM	Make use of these model to	K3
2.1.3		improve quality in organizations	
	Leadership vision	Develop a vision statement for an	К3
2.2.0		organization	
	Mission and Quality	Analyse the mission and quality	
2.3.0	Policy Statements	policy statements for various	K4
		organizations	
III		QUALITYTOOLS	
	Quality Improvement	Make use of the quality	K3
3.1.0	Tools	improvement tools and formulate	
		techniques to improve quality.	
0.1.1	The Seven Statistical	Analyse the quality related issues	K4
3.1.1	Tools	using old seven statistical tools	
	The New Seven Tools.	Appraise the usage of new seven	K4
3.1.2		tools in solving the real time	
		quality problems	
IV		QUALITYPROCESS	
410	Kaizen	Demonstrate the techniques of	K2
4.1.0		Kaizen	

4.1.1	5S Process	Examine the changes in service quality after implementation of	K4
		5S	
4.1.2	Quality Circles	Demonstrate the members to be	K2
4.1.2		involved in quality circles	
4.1.3	SPC – Statistical Process	Illustrate the process involved in	K2
4.1.3	Control	statistical process control	
4 1 4	TPM – Total Productive	Explain the purpose of TPM in	K2
4.1.4	Maintenance	organizations	
4.1.5	JIT – Just in Time	Identify the benefits of JIT to the	K3
4.1.5		suppliers	
4.1.5	Benchmarking.	Apply benchmarking as a tool for	K3
4.1.5		achieving competitive advantage	
V	QUAL	TY MANAGEMENT SYSTEMS	
		Explain the process involved in	K2
5.1.0	Quality Management	QMS	
	Systems		
511	Requirements and	Demonstrate the principles	K2
5.1.1	principles of QMS	involved in QMS	
5.1.0	ISO9000 Series	Explain the ISO 9000 series and	K2
5.1.2		its requirements	

	PROGRAMME OUTCOMES							PROGRAMME SPECIFIC OUTCOMES					
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	Н	L	М	М	М	-	М	М	М	М	М	М	М
CO2	М	Н	-	М	L	L	Н	Н	Н	L	Н	Н	Н
CO3	М	L	Н	Н	Н	Н	Н	М	М	L	-	L	Н
CO4	L	М	Н	Н	Н	Н	М	М	М	-	М	Н	М
CO5	М	М	Н	Н	-	L	М	М	М	-	L	М	М
CO6	М	М	Н	Н	Н	М	Н	L	М	М	М	Н	Н

5. COURSE ASSESSMENT METHODS

Direct

- 1. Continuous Assessment Test I,II
- 2. Open book test; Assignment; Seminar; Journal paper review, Group Presentation
- 3. End Semester Examination

Indirect

1. Course-end survey

Name of the Course Co-ordinator: Dr. Glenny Jocelyn

AIR REGULATION

SEMESTER-III CREDITS: 3 HOURS/WEEK: 4

COURSE CODE: U20AG3Y5 TOTAL HOURS: 45

1. COURSE OUTCOMES :

On Completion of this course, the student will be able to,

S. No	Course Outcomes	Level	Unit Covered
1	Outline international aviation bodies	K2	Ι
2	Make use of aviation documents and manuals	К3	II
3	Distinguish different air traffic control units	K4	III
4	Illustrate how air traffic is managed	K2	IV
5	Explain aviation meteorological phenomenon	K2	V
6	Summarize meteorological reports and forecast	К2	IV

2A. SYLLABUS

UNIT I - AIR LAW

9 Hours

9 Hours

General – International Bodies – ICAO – FAA- EASA – IATA – DGCA – CAA – CHICAGO Convention and establishment of ICAO – WARSAW Convention – Freedom of the Air

UNIT II – IMPORTANT DOCUMENTS

ICAO Annexes – Controlling States Roles, Regulations, Sovereignty, Power of Authority – European Union EASA – Operations and Standard – EU- OPSI- 1045 – OPERATIONS MANNUAL PARTS A, B, C, D.

UNIT III – AIR TRAFFIC CONTROL

ATC Services (ATC, AIS/ARO, Segments and MODULEs, CLR, GRD, TWR, APP/DEP, ACC), Airspaces (airways, special use of airspace, airspace classification, flight rules) – ICAO – ATS flight plan – NOTAMS – Euro Control

UNIT IV - AIR TRAFFIC MANAGEMENT

Air Traffic Management -ATC slots - Capacity Management - Airports - RVSM - Oceanic Control.

UNIT V- AVIATION WEATHER

Introduction to Aviation weather – Air masses – Frontal Weather – Pressure – Temperature – Density – International Standard Atmosphere (ISA) – Clouds – Wind – Precipitations – Weather hazards (thunder storms, turbulence, icing, low visibility, wind shear/microburst) – Aviation weather reports and forecast – Textual weather reports and forecasts (METAR, SPECI TAF, SIGMENT, AIRMET, PIREP) – Weather charts (SWC, Wind Aloft, Volcanic Ash) – Official weather sources – Online services – MET Stations.

2B. TOPICS FOR SELF STUDY

S. No	Topics	Web Links
1	ICAO Annex	https://www.skybrary.aero/index.php/ICAO_Annexes_an
		d_Doc_Series
2	Airspace classifications in	https://www.skybrary.aero/index.php/Classification_of_A
	India	irspace
3	Documents to be carried on	https://www.scribd.com/document/75173906/Document
	board by Indian registered	<u>s-to-Be-Carried-on-Board-by-Indian-Registered-Aircraft</u>
	aircraft	

2C. REFERENCE BOOKS:

R.K.Bali – Navigation

Ground Studies for Pilots - Navigation

9 Hours

9 Hours

9 Hours

UNIT	COURSE CONTENTS	LEARNING OUTCOMES	TAXONOMY						
			LEVEL						
Ι	AIR LAW								
1.1	General	Outline of Air regulation	K2						
1.2	International aviation bodies	Function of international aviation bodies	K4						
1.3	Chicago convention & establishment of ICAO	Explain Chicago convention & ICAO	K2						
1.4	WARSAW convention	Explain WARSAW convention	K2						
1.5	Freedom of Air	List the freedom of Air	K4						
II	IN	IPORTANT DOCUMENTS							
2.1.0	ICAO Annex	Summarize the annex of ICAO	K2						
2.1.1	Controlling state rules, regulations, sovergenity, power of Authority	Indentify the power given to the contracting states of ICAO	К3						
2.1.2	European union EASA	Outline the roles and responsibility of EASA	K2						
2.1.3	Operations & standards	Distinguish the difference between recommendation & practices	K4						
2.1.4	Operation manual parts A, B, C, D	Make use of operation manual properly	К3						
III	A	IR TRAFFIC CONTROL	l						
3.1.0	ATC services	List out the roles & responsibilities of services provided by ATC units	K4						
3.1.1	Airspace	Indentify particular airspace according to the classification	К3						
3.1.2	ICAO	Explain the functions of ICAO	K2						
3.1.3	ATS flight plan	Explain the procedure of flight plan filling	K2						
3.1.4	NOTAMS	Interpret the message given in NOTAMS	K2						
IV	AIR TRAFFIC MANAGEMENT								
4.1.0	Air traffic management	Outline the procedure how Air traffic is managed	K2						
4.1.1	ATC slots	Explain about ATC slots	K2						
4.1.2	Capacity management	Organize the Ir traffic efficiently	К3						

4.1.3	Airports	Explain the functions of Airport	K2
4.1.4	RVSM	List the procedure to fly in RVSM	K4
		airspace	
4.1.5	Oceanic control	Explain hoe air traffic is managed	K2
		over ocean	
V		AVIATION WEATHER	
510	Introduction to aviation	Outline the weather related to	K2
5.1.0	weather	aviation	
5.1.1	Airmasses& fronts	Explain airmasses& fronts	K2
	Pressure temperature &	Discuss how pressure, temperature	K6
5.1.2	density	& density affects aircraft	
		performance	
5 1 0	ISA	Make use of ISA values in	K3
5.1.3		Performance calculation	
5 1 4	Clouds	Interpret the types of clouds and its	K2
5.1.4		hazards	
515	Winds	Relate the types of wind & its	K1
5.1.5		associated hazard	
51	Precipitation	Categorize types of precipitation	K4
5.1.6		from different types of cloud	
5.1.7	Weather hazard	List out the weather hazard	K4
510	Aviation weather report and	Explain about weather report &	K2
5.1.8	forecast	forecast	
510	Texual weather report &	Interpret the coded weather	K2
5.1.9	forecast	report/forecast	
E 1 10	Weather charts	Summarize the information given in	K2
5.1.10		aviation charts	
6 1 1 1	Official weather sources	Find weather information from	K1
5.1.11		official weather sources	
5 1 10	Online services	Make use of online services for	K3
5.1.12		meteorological information	
5.1.13	MET stations	Explain the purpose of met stations	K1

	PROGRAMME OUTCOMES							PROGRAMME SPECIFIC OUTCOMES					
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	Н	L	М	М	М	-	М	М	М	М	М	М	М
CO2	М	Н	-	М	L	L	Н	Н	Н	L	Н	Н	Н
CO3	М	L	Н	Н	Н	Н	Н	М	М	L	-	L	Н
CO4	L	М	Н	Н	Н	Н	М	М	М	-	М	Н	М
CO5	М	М	Н	Н	-	L	М	М	М	-	L	М	М
CO6	М	М	Н	Н	Н	М	Н	L	М	М	М	Н	Н

5. COURSE ASSESSMENT METHODS

Direct

- 1. Continuous Assessment Test I,II
- 2. Open book test; Assignment; Seminar; Journal paper review, Group Presentation
- 3. End Semester Examination

Indirect

1. Course-end survey

Name of the Course Co-ordinator: Captain Aarthi Kumari

SBEC I: COMPUTER APPLICATION IN BUSINESS-I

(THEORY & PRACTICAL)

SEMESTER- III CREDITS: 2 HOURS/WEEK: 2

CODE: U20AGPS1 TOTAL HOURS: 30

1. COURSE OUTCOMES:

On completion of this course, the student will be able to,

S.	Course Outcomes	Level	Unit Covered
No			
1	Recall the characteristics, types, five generations and anatomy of computer for better utilization.	K1	Ι
2	Relate office functions as they contribute to sound business practices and procedures.	К2	II
3	Apply Microsoft office and Tally software knowledge in businesses	К3	V
4	Examine the basic concepts in computer applications.	K2	Ι
5	Estimate competence with a wide variety of electronic tools and perform the current speed and accuracy requirements for key operation in a business environment.	K6	IV
6	Develop business correspondence and create graphics and electronic presentations	К3	III

2A. SYLLABUS

UNIT-I INTRODUCTION TO COMPUTERS

6 Hours

Introduction to Computers, Types of Computers, Characteristics of computers, Generations of computers, Anatomy of a Digital Computer, Functions and components of Computer, Introduction to Operating System, Working with AI, IOT, Blog Management, Presentation software

UNIT-II MS OFFICE -WORD

Getting Started with Microsoft Word, Editing a Document- Formatting A Document, Using Editing and Proofing Tools, Changing the Layout of a Document, Inserting Elements to Word Documents, Working with Tables, Working with Columned Layouts & Section Breaks.

UNIT-III MS OFFICE - POWERPOINT

Introduction to PowerPoint, Adding and Formatting Text, Customizing Presentations, Working with Shapes and Pictures, Adding Objects and Effects, Outlining Proofing and Printing, Delivering Your Presentation.

UNIT-IV MS OFFICE - EXCEL

Introduction to MS Excel, Worksheets and Workbooks, Entering Information into MS Excel Formatting a Worksheet, Adding Elements to a Workbook, Charts- Formulas and Calculations

Excel Forms- Tables, Developing a Workbook

UNIT-V INTRODUCTION TO TALLY

Introduction, Fundamentals of computerized accounting, Computerized accounting VS manual accounting, Architecture and customization of Tally, Features of tally, Configuration of tally, Tally screen and menu.

2B. TOPICS FOR SELF STUDY

S. No	Topics	Web Links
1	Securing & Protecting spreadsheets	https://support.microsoft.com/en-us/office/protect-an- excel-file-7359d4ae-7213-4ac2-b058-f75e9311b599
2	Applying auto layouts	https://bettersolutions.com/powerpoint/layout/index.htm
3	Inventory in Tally	https://tallysolutions.com/features/inventory-management/
4.	Entering Transactions	https://help.tallysolutions.com/article/Tally.ERP9/Tax_Indi a/Getting_Started/Recording_Transactions.htm

2C. TEXT BOOKS:

1. Rajathi, Tally 9.0 2002, Rajathi Publications

2. AnanthiSheshasaayee&Sheshasaayee,8thEdition,2010,Computer Applications in Business and Management, Margham Publication.

2D. REFERENCE BOOKS:

1. K.K Nandhani, 2009, Implementing Tally 9.0, BPB Publishers.

6 Hours

6 Hours

6 Hours

6 Hours

2. Agarwal -Tally 9,2007, Agarwal Book House.

UNIT	COURSE CONTENTS	LEARNING OUTCOMES	TAXONOMY LEVEL		
Ι	INTRO				
1.1.0	Introduction to Computers	Define the usage of Computers in business organization	K1		
1.1.1	Types of Computers	Identify the different types of Computers	K1		
1.1.2	Characteristics of computers	Explain the Characteristics of computers	К2		
1.1.3	Five Generations of Computers	Categorize Five Generations of Computers	K2		
1.1.4	Anatomy of a Digital Computer	Recall Anatomy of a Digital Computer	K1		
1.1.5	Functions and components of Computer	Explain the Functions and components of Computer	К2		
1.1.6	Introduction to Operating System	Define Operating System and Compare different Operating System	K4		
II		MS OFFICE –WORD			
2.1.0	Getting Started with Microsoft Word	Recall Microsoft Word	K1		
2.1.1	Editing a Document- Formatting a Document	Apply formatting while Creating document.	К3		
	Using Editing and Proofing Tools	How to use Editing and proofing tools Make use of Editing and Proofing	К3		
2.1.2		Tools during documentation Improve the layout of document using	К3		
		Editing and Proofing Tools	K6		
2.1.3	Changing the Layout of a What is a layout				

		document preparation Discover different layout with editing tools	K2 K4
2.1.4	Inserting Elements to Word Documents	a) How to insert elements in a documentb) Make use of different elements in a document	K3 K3
2.1.5	Working with Tables, Working with Columned	a) How to create table in a word document	K1
	Layouts & Section Breaks.	b) Construct different layout with tablesc) Create tables with Columned	K2
		Layouts & Section Breaks.	K2
III 2.1.0		OFFICE – POWERPOINT	174
3.1.0	Introduction to PowerPoint	Explain the meaning and uses of Power Point during Business presentation	K1
3.1.1	Adding and Formatting Text	Apply formatting and add text in a power point presentation	K3
3.1.2	Customizing Presentations	Design presentation with different tools for customization.	K4
3.1.3	Working with Shapes and Pictures	a) How to insert shapes and pictures in power point presentation	K2
		 b) Make use of different shapes and pictures in a power point presentation 	К3
3.1.4	Adding Objects and Effects	Create a power point presentation with Objects and Effects	K2
3.1.5	Outlining Proofing and Printing	Create presentation with Proofing and Printing for business presentation.	К3
3.1.6	Delivering Your Presentation.	a) How to deliver a presentation Examine the use of presentation	K1

	for business purpose							
IV	MS OFFICE – EXCEL							
4.1.0	Introduction to MS Excel	Explain the meaning and uses of Excel in business operations.	K1					
4.1.1	Worksheets and Workbooks	 a) What is worksheet and workbook b) Explain the uses of worksheet and workbook. c) Create and work with a new workbook 	K1					
4.1.2	Entering Information into MS Excel	 a) How to enter Information into MS Excel b) Organize date based on any classification. c) Create a worksheet with data or information 	K1					
4.1.3	Formatting a Worksheet	a) How to format a Worksheetb) Apply formatting tools in a worksheet	K1					
4.1.4	Adding Elements to a Workbook	 a) How to add elements to a workbook b) Make use of elements to a workbook c) Create a workbook with elements. 	К3					
4.1.5	Charts- Formulas and Calculations	 a) How to insert chart and formulas b) Apply Formulas for calculation c) Analyze data with formulas d) Create Macro worksheet. 	К3					
4.1.6	Excel Forms- Tables	 a) How to create data forms in Excel b) Make use of tables in data form creation c) Create data form for data entry with data ribbon. 	К3					
4.1.7	Developing a Workbook	How to develop a workbook for						

		business data recordings.	K2
V	INT		
5.1.0	Introduction to Tally	Explain the meaning and importance of tally in business.	K1
5.1.1	Fundamentals of computerized accounting	Recall the fundamentals of computerized accounting	K2
5.1.2	Computerized accounting vs manual accounting	Identify the difference between Computerized accounting vs manual accounting and identify the effective type of accounting	K4
5.1.3	Architecture and customization of Tally	Analyse the architecture and customization of Tally.	K4
5.1.4	Features of tally	Identify the features of Tally	К3
5.1.5	Configuration of Tally	Outline the configuration of Tally	K1
5.1.6	Tally screen and menu	Recall Tally screen and different menus in Tally	К2

										PRO	GRAMM	1E SPEC	CIFIC
		PROGRAMME OUTCOMES								OUTC	OMES		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	Н	Н	М	L	н	н	н	М	М	Н	-	н	L
CO2	М	Н	Н	Н	М	Н	М	М	L	М	L	Н	L
CO3	н	Н	М	М	н	М	М	н	М	Н	М	н	М
CO4	Н	М	н	М	н	н	М	М	М	Н	М	н	-
CO5	М	Н	н	М	Н	Н	Н	М	М	Н	L	М	М
CO6	Н	Н	Н	М	н	Н	М	н	М	Н	М	Н	Μ

5. COURSE ASSESSMENT METHODS

Direct	
1. Continuous Assessment Test I,II	
2. Open book test; Assignment; Seminar; Journal paper rev	view, Group
Presentation	
3. End Semester Examination	
Indirect	
1. Course-end survey	

Name of the Course Co-ordinator: Mr. P. Ramaraj

EXTRA DISCIPLINARY COURSE NMEC I: FUNDAMENTALS OF MANAGEMENT

SEMESTER-III

CREDITS: 2

CODE: U20AG3E1 TOTAL HOURS: 30

HOURS/WEEK: 2

1. COURSE OUTCOMES :

S.	Course Outcomes	Level	Unit Covered
No			
1	Summarize the basic principles and functions of management in functional areas of business and understand the contributions of experts to management thought.	K2	Ι
2	Apply the management knowledge to accomplish the given tasks effectively and to handle situations which may arise in management.	К3	Ι
3	Identify and use skills in planning and decision making in all areas of business aiming at achieving the goal of the organisation.	К3	Π
4	Utilize and describe the basic theories and principles by which businesses are organized and managed in modern society	К3	III
5	Demonstrate the importance of staffing and control function that contributes to the achievement of organizational objectives.	K2	IV
6	Classify the different leadership styles and develop their leadership capabilities and recognize the significance of motivation in management	K2	V

2A. SYLLABUS

UNIT-I INTRODUCTION

Management – Meaning – Definition - Importance of Management - Functions of management - Management vs. Administration - Taylor's management - Fayol's management.

UNIT-II PLANNING

Planning – Meaning - Definition - Characteristics of Planning - Objective of Planning -Nature of Planning - Importance of Planning - Steps in Planning Process - Types of Planning -Barriers of Planning

UNIT-III ORGANISATION

Organization – Meaning - Definition - Characteristics of Organization - Functions of Organization - Importance of Organization - Types of Organisation - Formal Organisation -Characteristics of Formal Organisation - Advantages of Formal Organisation - Disadvantages of Formal Organisation, Informal Organisation - Characteristics of Informal Organisation -Advantages of Informal Organisation - Disadvantages of Informal Organization - Matrix Organisation

UNIT-IV STAFFING AND CONTROLLING

Staffing – Definition - Meaning - Objectives of Staffing - Functions of Staffing - Importance of Staffing, Controlling – Definition - Steps in Controlling process - Budgeting (Basic concepts only)

UNIT-V MOTIVATION

Motivation - Meaning – Definition - Nature of Motivation - Importance of Motivation -Types of Motivation - Maslow Theory, Leadership – Meaning – Definition - Importance of Leadership - Types of Leader - Functions of Leader - Qualities of Leader - Leader vs Manger

2B. TOPICS FOR SELF STUDY

S. No	Topics	Web Links
1	Self Motivation	https://jamesclear.com/motivation

6 Hours

6 Hours

6 Hours

6 Hours

2	Overcoming Demotivation	https://www.lifehack.org/articles/productivity/10-
		types-demotivation-and-how-overcome-them.html
3	Leadership Training	https://money.howstuffworks.com/business/professio
		nal-development/leadership-training.htm

2C. TEXT BOOKS:

- 1. T. Ramaswamy, 2011, Principles of Management, Himalaya Publishing house
- 2. L M Prasad, 2012 Principles of Management, 9th Edition, S.Chand Publication

2D. REFERENCE BOOKS:

- 1. Tripathi& Reddy, Principles of Management, Mcgraw Hill, 5th edition, 2012
- 2. Koontz o' doneel, Principles of Management- McGraw Hill, 1st edition ,2004

UNIT	COURSE CONTENTS	LEARNING OUTCOMES	TAXONOMY LEVEL
Ι		INTRODUCTION	1
1.1.0	Management	K2	
1.1.1	Meaning	Explain the meaning of Management	К2
1.1.2	Definition	Define management	K1
1.1.3	Importance of Management	Outline the importance of management	К2
1.1.4	Functions of management	Demonstrate the various functions of management	K2
1.1.5	Management vs. Administration	Compare Management and Administration	К2

1.1.6	Taylor's management	Explain the use of Taylor's	К2	
1.1.0	rayior s management	principles of management in a	112	
		organisation		
1.1.7	Fayol's management	Explain the use of	K2	
1.1./	rayor s management	Fayol'sprinciples of	N2	
		management in a organisation		
		PLANNING		
2.1.0	Planning	Make use of planning in an	K3	
		organisation		
2.1.1	Meaning	Explain the meaning of	K2	
		Planning		
2.1.2	Definition	Define planning	K2	
2.1.3	Characteristics of Planning	Summarize the various	K2	
		characteristics of planning		
2.1.4	Objective of Planning	Explain the objectives of	K2	
		planning		
2.1.5	Nature of Planning	Explain the nature of planning	K2	
2.1.6	Importance of Planning	Relate the importance of	K2	
		planning in an organisation		
2.1.7	Steps in Planning Process	Apply the process of planning	K3	
		and implement in an		
		organisation		
2.1.8	Types of Planning	Make use of various types of	K3	
		planning and utilize the right		
		type		
2.1.9	Barriers of Planning	Summarize the barriers of	K2	
		planning		
III		ORGANISATION		
3.1.0	Organization	Explain the purpose of	K2	
		organizing		
3.1.1	Meaning	Explain the meaning of	K1	
		organizing		
3.1.2	Definition	Define organisation	К2	

3.1.3	Characteristics of	Summarize the various	K2
	Organization	characteristics of organizing	
3.1.4	Functions of Organization	Make use of various functions	K2
		of organisation	
3.1.5	Importance of Organization	nization Relate the importance of	
		organizing in an organisation	
3.2.0	Types of Organisation	nisation Demonstrate various types of	
		organisation	
3.3.0	Formal Organisation	Utilize the formal structure in	K3
		an organisation	
3.3.1	Characteristics of Formal	Build a formal structure in an	K3
	Organisation	organisation and analyse its	
		characteristics	
3.3.2	Advantages of Formal	Identify the advantages of	K3
	Organisation	Formal Organisation	
3.3.3	Disadvantages of Formal	Identify the disadvantages of	K3
	Organisation	Formal Organisation	
3.4.0	Informal Organisation	Utilize the informal structure in	K3
		an organisation	
3.4.1	Characteristics of Informal	Build a informal structure in an	K3
	Organisation	organisation and analyse its	
		characteristics	
3.4.2	Advantages of Informal	Identify the advantages of	K3
	Organisation	informal Organisation	
3.4.3	Disadvantages of Informal	Identify the disadvantages of	K3
	Organization	informal Organisation	
3.5.0	Matrix Organisation	Utilize the Matrix structure in	K3
		an organisation	
IV	STAI	FFING & CONTROLLING	
4.1.0	Staffing	Plan staffing for an organisation	К3
4.1.1	Definition	Define staffing	K2
4.1.2	Meaning	Explain the meaning of	K2
		staffing.	
4.1.3	Objectives of Staffing	Explain the various objectives	K2

		of staffing			
4.1.4	Functions of Staffing	Relate the various functions of	K2		
		staffing			
4.1.5	Importance of Staffing	Summarise the importance of	K2		
		staffing			
4.2.0	Controlling	Analyse the purpose of	K3		
		controlling in an organisation	on		
4.2.1	Definition	Define controlling	K2		
4.2.2	Steps in Controlling process	Summarise the various steps in	K2		
		controlling process			
4.3.0	Budgeting (Basic concepts	Make use of budgeting in an	K3		
	only)	organisation			
V		MOTIVATION			
5.1.0	Motivation	Motivate the staff for effective	K4		
		performance in the organisation			
5.1.1	Meaning	Perceive the meaning of	K5		
		motivation			
5.1.2	Definition	Define motivation	K2		
5.1.3	Nature of Motivation	Explain the nature of	K2		
		motivation			
5.1.4	Importance of Motivation	Perceive the importance of	K5		
		motivation			
5.1.5	Types of Motivation	Explain the types of motivation	К5		
5.2.0	Maslow Theory	Make use of Malow theory and	K3		
		understand the need for			
		motivation			
5.3.0	Leadership	Motive the staff to develop	K4		
		leadership skills			
5.3.1	Meaning	Perceive the meaning of	K5		
		leadership			
5.3.2	Definition	Define leadership	K2		
5.3.3	Importance of Leadership	Perceive the importance of	K5		
		leadership			

5.4.0	Types of Leader	Summarize various types of	K2
		Leader	
5.4.1	Functions of Leader	Explain various functions of	K2
		leadership	
5.4.2	Qualities of Leader	Perceive the qualities of	K5
		leadership	
5.5.0	Leader vs Manger	Compare between a Leader and	K5
		a Manger	

	PROGRAMME OUTCOMES							PROGRAMME SPECIFIC					
							OUTCOMES						
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	Н	Н	Μ	Н	Μ	Н	Μ	Н	Μ	Н	Н	Μ	M
CO2	Н	Н	Μ	Н	Μ	Н	Μ	Н	Μ	Н	Н	Н	Н
CO3	Н	Н	Н	Н	Μ	Н	Н	Н	Н	Н	Н	Н	Н
CO4	Н	Н	Н	Н	-	M	Μ	Μ	Μ	Μ	Н	Μ	M
CO5	Η	Μ	Н	Μ	Η	Н	Н	Н	Н	Н	Н	Н	Н
CO6	Н	Μ	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н

5. COURSE ASSESSMENT METHODS

Direct

- 1. Continuous Assessment Test I,II
- 2. Open book test; Assignment; Seminar; Journal paper review, Group Presentation
- 3. End Semester Examination

Indirect

1. Course-end survey

Name of the Course Co-ordinator: Mr. J. Manikandan

SEMESTER IV

S.No	Course Title	Course Code
1.	Tamil IV	U18TM3L3
2.	English Through Literature	U21EGNL4
3.	Business Law and Aviation Flight Safety Law	U21AG404
	Training and Development (Elective-II)	U22AG4:A
4.	Services Marketing(Elective-II)	U22AG4:B
5.	Aviation Security	U20AG4Y6
6.	Airport Ground Handling Management	U21AGPS2
7.	Fundamentals of Marketing (NMEC)	U20AG3E2
8.	Life Skills	U16LFS41
9.	Extension Activities	U16ETA41

CORE IV: BUSINESS LAW & AVIATION FLIGHT SAFETY LAW

SEMESTER: IV CREDITS: 3 HOURS/WEEK: 5

CODE: U21AG404 TOTAL HOURS : 45

1. COURSE OUTCOMES :

On completion of this course, the student will be able to,

S.	Course Outcomes	Level	Unit Covered
No			
1	Examine the various Acts related to business	K4	Ι
2	Understand the essential elements of a valid contract	K2	Ι
3	Compare the duties of different types of agents in a contract of Agency	K2	II
4	Discuss the rights and responsibilities of seller and buyer in a contract of business	К3	III
5	Outline the Indian aircraft act 1934	K2	IV
6	Outline the Indian aircraft act 1937	K2	V

2A. SYLLABUS

UNIT-I CONTRACT ACT & LAW OF AGENCY

Contract Act, Definition, Classification, Essentials of a Contract, Mistake, Misrepresentation and fraud, Right and Obligations of Parties to Contact, Not Enforceable-Assignment, Breach, Performance and Discharge, Quasi Contract, Law of Agency, Nature appointment, Termination, Right and duties Liabilities, Relation with third parties, Types of Agents

UNIT-II PARTNERSHIP & SALE OF GOODS ACT

Partnership- Definition, Creation relation with Partner interest and to third party Liabilities. Sale of goods Act-Definition, Price, Conditions and warranties, Right and remedies in case of Breach

9 Hours

UNIT-III INSURANCE

Introduction to Insurance, Definition of Life Insurance, Kinds of life insurance policy, Definition of Non- life insurance, Types of Non-life insurance, Fire Insurance, Marine Insurance, Kinds of Marine policies, Characteristics, Warranties, Difference between Life Insurance& Other forms of insurance, Insurance Claims

UNIT-IV INDIAN AIRCRAFT ACT, 1934

Power to detain aircraft, Power of Central Government to prohibit or regulate construction of buildings, planting of trees, Payment of compensation, Penalty for act in contravention of rule made under this Act, Penalty for flying so as to cause danger, Penalty for abetment of offences and attempted offences, Laying of rules before Parliament, Use of patented invention on aircraft not registered in India, Saving for acts done in good faith under the Act.

UNIT-V INDIAN AIRCRAFT RULES, 1937

Short title and extent, Nationality of aircraft, Definitions and Interpretation, General condition of flying, General safety condition, Personnel of aircraft, Airworthiness, Radio telegraph Apparatus Aeronautical beacon, Ground lights and false lights, Log book, Investigation of accidents, Investigation of Incidents.

2B. TOPICS FOR SELF STUDY

S. No	Topics	Web Links
1	Intellectual Property Rights	https://www.innovation-asset.com/blog/the-4-main-types- of-intellectual-property-and-related-costs
2	Consumer Protection Act,1986 and Competition Act, 2002	https://blog.ipleaders.in/relationship-competition-law- consumer-protection/
3	Aviation regularity bodies in India	https://www.civilaviation.gov.in/en/aboutus/orgsetup
4	Roles and duties of DGCA	https://en.wikipedia.org/wiki/Directorate_General_of_Civ il_Aviation_(India)

2C. TEXT BOOK:

- 1. N. D. Kapoor, Elements of Mercantile Law -, S. Chand Publications, 2014.
- 2. Pillai R.S. N and V. Bagavathi, Business Law S.ChandPubilcations, 2007.

9 Hours

9 Hours

- **3.** Indian Aviation Act 1934 by Ministry of Civil Aviation, Govt. of India.
- 4. Indian Aircraft Manual by Ministry of Civil aviation, Govt. of India.
- 5. Air Regulation Part by R.K Bali.

2D. REFERENCE BOOKS:

- 1. Davar, Mercantile Law, Progressive Corporation, 1967 -
- 2. Venkatesan E., Mercantile Law, MLJ publications.2009
- 3. Shukla, MercantileLa,S. Chand and sons, revised edition2002
- 4. TandonB. NPrinciple of Mercantile Law -, S. Chand&sons, 1983

IRDA material.

UNIT	COURSE CONTENTS	LEARNING OUTCOMES	TAXONOMY LEVEL		
Ι	CONTR				
1.1.0	Definition	Definition Define Contract			
1.1.1	Classifications of contracts	Classify Contracts under different headings	К2		
1.1.2	Essentials of a Contract	List out the essentials of a contract	K2		
1.1.3	Mistake, Misrepresentation and Fraud	Illustrate the meaning of mistake, misrepresentation and fraud	К2		
1.1.4	Right and Obligations to parties of a contract	Explain the right and Obligations to parties of a contract	K2		
1.1.5	Not enforceable Assignments	Illustrate the contracts not enforceable Assignments	K1		
1.1.6	Breach	Demonstrate the impact of breach of contract	К2		
1.1.7	Performance and Discharge	Discover the importance of performance and discharge of contracts	К3		
1.1.8	Quasi contract	Understand the meaning of quasi contracts	K1		
1.2.0	Law of Agency	Recall the meaning of Agency	K1		
1.2.1	Nature and Appointment	Explain the nature and appointment	К2		

		of agents	
1.2.2	Termination	Demonstrate the situations of termination of Agency	K2
1.2.3	Rights, Duties and	Explain rights, duties and liabilities	K2
Liabilities		of agents	
1.2.4	Relation with third parties	Develop the relationship with third parties	K3
1.2.5	Types of Agents	Classify the agents	K2
II	PARTNE	RSHIP & SALE OF GOODS ACT	
2.1.0	Partnership-Definition	Define the term Partnership	K1
2.1.1	Principles	Explain the principles of partnership	K2
2.1.2	Creation of relation with partner interest	Discover the relationship with partner interest	К3
2.2.3	Types of Partners	Classify partners	K2
2.2.4	Duties and Liabilities of Partners	Examine the duties and Liabilities of Partners	K3
2.3.0	Sale of Goods Act- Definition	Define Sale of goods Act	K1
2.3.1	Price	Explain the importance of price	
2.3.2	Conditions and Warranties	Illustrate the terms Conditions and Warranties	K2
2.3.3	Rights and Remedies in case of Breach	Examine the rights and remedies in case of Breach	К3
2.3.4	Stoppage in transit	Discover the consequences of Stoppage in transit	K3
2.3.5	Transfer of Property	Analyze the situations of transfer of property	K3
III		INSURANCE	
3.1.0	Introduction to Insurance	Recall the need of insurance	K1
3.1.1	Definition	Define the term Insurance	K1
3.1.2	Classifications of Insurance	Categorize the insurance	K3

3.1.3	Difference between Life insurance with other forms of insurance	Distinguish between Life insurance with other forms of insurance	K3
3.1.4	Kinds of Life Insurance policy	Classify the life insurance policies	K2
3.2.1	Fire insurance e-Definition	Define fire insurance	K1
3.2.2	Types	List the different types of fire insurance	K2
3.2.3	Claim	Analyze the conditions of claim settlement	K3
3.3.0	Marine insurance	Recall the term Marine insurance	K1
3.3.1	Definition	Define the term Marine insurance	K1
3.3.2	Characteristics	Extend the characteristics Of marine insurance	K2
3.3.3	Kinds of Marine policies	Classify Marine insurance	K2
3.3.4	Warranties	Explain the term warranty	K2
IV	IND	DIAN AIRCRAFT ACT, 1934	
4.1	Power to detain aircraft	List the power of central government to detain aircraft	K4
4.2	Power of central government to prohibit or regulate construction of building	Organize the construction of building around aerodrome	К3
4.3	Payment of compensation	Discuss the compensation between the owner and government	K6
4.4	Penalty for act in contravention of ruke made under this act	Decide the penalty amount	К5
4.5	Penalty for flying so as to	Assess the penalty for flying so as to	K5

	cause danger	cause danger	
4.6	Penalty for abetment of offences and attempted offences	Decide the penalty for offences and attempted offences	К5
4.7	Laying of rule before parliament	Analyze the new rule made in parliament	K4
4.8	Use of patent invention on aircraft non registered in India	Opinion the use of patented invention on aircraft non registered in India	K6
4.9	Saving for act done in good faith under the act	Decide the act done in good faith under the act	К5
V	IND	DIAN AIRCRAFT ACT, 1937	
5.0	Short title and extend	Propose the purpose of aircraft act 1937	K6
5.1	Nationality of aircraft	List out what are the requirements for an aircraft to be registered in a country	K4
5.2	Definition & Interpretation	Summarize the general definition & Interpretation	K2
5.3	General condition of flying	Outline the general flying condition in India	K2
5.4	General safety condition	List out the condition for safe conduct of flight	K4
5.5	Personnel of aircraft	List out the requirements of personnel concerned with aviation	K4
5.6	Airworthiness	Define Airworthiness	K1
5.7	Radio telegraph apparatus	Explain the working principle of radio telegraph apparatus	K2
5.8	Aeronautical beacon	Discuss the function of aeronautical beacon	K6
5.9	Ground light & false light	Identify the ground lights and false lights	К3
5.10	Log book	List out the different types of log book	K4
5.11	Investigation of accident	Prioritize the procedure for accident Investigation	K5
5.12	Investigation of incidents	Prioritize the procedure for Incident Investigation	К5

	PROGRAMME OUTCOMES								PROGRAMME SPECIFIC OUTCOMES				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	М	М	Н	М	Н	М	М	М	М	м	М	М	М
CO2	М	L	Н	М	М	Н	М	н	М	М	Н	М	Н
CO3	н	М	Н	М	Н	М	-	М	н	L	М	н	М
CO4	M	Н	М	M	Н	Н	М	н	М	М	М	Н	М
CO5	M	М	М	Н	М	М	Н	М	М	Н	Н	М	-
CO6	н	М	М	н	Н	М	н	L	М	м	М	Н	Н
CO 7	Н	М	М	L	М	Н	М	М	Н	М	-	Н	М

5. COURSE ASSESSMENT METHODS

Direct

1. Continuous Assessment Test I,II

- 2. Open book test; Assignment; Seminar; Journal paper review, Group Presentation
- 3. End Semester Examination

Indirect

Elective II: TRAINING & DEVELOPMENT

SEMESTER: IV CREDITS: 5 HOURS/WEEK: 5

CODE: U22AG4:A **TOTAL HOURS : 75**

1. COURSE OUTCOMES:

On completion of this course, the student will be able to,

S. No	Course Outcomes	Level	Unit Covered
1	Identify the need for Training, choose correct method of Training and to evaluate the Training Programme.	K3	Ι
2	What motivates professionals to learn and the most appropriate methodologies to impart training.	K1	II
3	Illustrate a training program using an appropriate framework for evaluating needs for training, designing a training program, and evaluating the training output.	K2	III
4	Understand the concept of training audit & training evaluation.	K2	II
5	Understand various strategies used by organizations to measure performance & reward.	K2	IV
6	Organize a training module design and execute it	K3	V

2A. SYLLABUS

UNIT-I INTRODUCTION

Definition of Training, Need for training, Gaps in Training, Learning and its Principles.

UNIT-II TRAINING NEEDS & EVALUATION

Training needs analysis, Implementation of the Training Programme, Evaluation of Training Programme, How to Make Training Programme Effective?

UNIT-III METHODS OF TRAINING

15 Hours

15 Hours

Methods of Training: Traditional Training, On – The Job Training: Apprentice, Informal Training, Job Rotation, Job Instruction. Off – the Job Training: Lectures, Multimedia Tools, Laboratory Training, Case Study.

UNIT -IV MANAGERIAL DEVELOPMENT 15 Hours

Managerial Development and Training: Methods of Managerial Training, Executive Development, Managerial on the job Training: Job Rotation, Coaching. Managerial off the Job Training: Case Studies, Seminars, Games, Behavioural Modelling.

UNIT-V TRAINING PROCESS

Training Process: Steps in developing a Training Programme, Selection of Internal Trainers, Selection of External Trainers, Advantages and Disadvantages of trainers.

2B. TOPICS FOR SELF STUDY

S. No	Topics	Web Links
1	Guidance for Developing a Training Program for Quality	https://www.epa.gov/sites/production/files/2016- 03/documents/g10-final.pdf
2	Systems Training Design	https://bizfluent.com/facts-5761016-training-designhtml
3	Distinction between Training needs analysis & Performance analysis	https://elearningindustry.com/training-needs-analysis- performance-analysis-difference

2C. TEXT BOOKS:

- 1. Gary Dessler, Human Resource Management, Pearson Publication, 14th Edition.2005.
- 2. Aswathappa, Human Resource Management, McGraw Hill Publication, 2013.

2D. REFERENCE BOOKS:

- 1. Devendra Agochia, Every Trainer's Handbook, Sage Publications, 2002.
- 2. Gary Kroehnert, Training for Trainers-, 2ndEdition, Tata McGrawHill.2009.

3. SPECIFIC LEARNING OUTCOMES (SLO):

UNIT	COURSE CONTENTS	LEARNING	TAXONOMY
		OUTCOMES	LEVEL

Ι	INTRODUCTION							
1.1.0	Definition of Training	Define training.	K1					
1.1.1	Need for training	List down the needs for training.	K1					
1.1.2	Gaps in Training	Identify the gaps & the methods to fill the gaps in training.	К3					
1.1.3	Learning and its Principles	Infer the principles of learning	K2					
П	TRAINING	NEEDS & EVALUATION						
2.1.0	Training needs analysis	Identify the needs for training analysis.	K3					
2.2.0	Implementation of the Training Programme	Demonstrate the implementation of training program.	K2					
2.3.0	Evaluation of Training Programme	Assess the training programme.	K5					
2.4.0	How to Make Training Programme Effective?	Organize the training K3 programme to make it effective.						
III	METH	ODS OF TRAINING						
3.1.0	Methods of Training	Explain about various methods of training.	K2					
3.2.0	Traditional Training	Recall the traditional training methods.	K1					
3.3.0	On – The Job Training	Define & Classify the methods of On the job training	K1					
3.3.1	Apprentice	Explain apprentice training	K2					
3.3.2	Informal Training	Explain Informal training.	K2					
3.3.3	Job Rotation	Explain Job rotation. K						
3.3.4	Job Instruction	Explain Job Instruction.	K2					

Off – the Job Training	Define & Classify the	K1
	methods in Off the job	
	training.	
Lectures	Define Lectures.	K1
Multimedia Tools	List down the various	K1
	multimedia tools available for	
	training.	
Laboratory Training	Explain Laboratory training.	K2
Case Study	Define & Present Case study	K1
	training.	
MANAGEI	RIAL DEVELOPMENT	
Managerial Development and	Compare Managerial	K2
Methods of Managerial Training	Classify the different types of	K2
Executive Development	Analyze executive	K4
	development through	
	managerial training.	
Managerial on the job Training	Classify the methods in	K2
	Managerial On the job	
	training.	
Job Rotation	Explain Job rotation.	K2
Coaching	Explain Coaching.	K2
Managerial off the Job Training	Classify the methods in	K2
	Managerial Off the job	
	training.	
Case Studies	Define & Present Case study	K1
	training.	
Seminars	Explain Seminars.	K2
Games	Adapt games in training.	K6
Behavioural Modelling	Explain Behavioural	K2
	Lectures Multimedia Tools Laboratory Training Case Study Managerial Development and Training Methods of Managerial Training Executive Development Managerial on the job Training Job Rotation Coaching Managerial off the Job Training Case Studies Seminars Games	methods in Off the job training.LecturesDefine Lectures.Multimedia ToolsList down the various multimedia tools available for training.Laboratory TrainingExplain Laboratory training.Case StudyDefine & Present Case study training.Managerial Development and TrainingCompare Managerial development & Training.Methods of Managerial TrainingClassify the different types of Managerial training.Executive DevelopmentAnalyze executive development through managerial training.Managerial on the job TrainingClassify the methods in Managerial On the job training.Job RotationExplain Lob rotation.CoachingExplain Coaching.Managerial off the Job TrainingClassify the methods in Managerial Off the job training.SeminarsExplain Seminars.GamesAdapt games in training.

		modelling.						
V	TRAINING PROCESS							
5.1.0		Explain the steps in Training	K2					
5.1.0	Training Process	process.						
	Steps in developing a Training	Choose appropriate steps in	К3					
5.2.0	Programme	developing a training						
		program.						
520	Selection of Internal Trainers	Recall the characteristics	K1					
5.3.0		expected in Internal trainers.						
5.4.0	Selection of External Trainers	Recall the characteristics	K1					
5.4.0		expected in external trainers.						
	Advantages and Disadvantages of	List down the merits &	K1					
5.5.0	trainers	demerits of Internal &						
		External trainers.						

	PROGRAMME OUTCOMES								PROGRAMME SPECIFIC OUTCOMES				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	Н	Н	М	Н	L	L	Н	М	М	н	М	н	-
CO2	н	М	Н	М	Н	М	М	Н	L	Н	-	н	L
CO3	М	Н	-	-	М	Н	-	L	М	М	Н	М	Н
CO4	-	M	Н	М	Н	L	Н	М	-	Н	М	-	М
CO5	М	-	Н	L	М	М	Н	Н	Н	-	М	Н	М
CO6	Н	L	Н	М	Н	М	L	-	М	М	Н	М	Н

5. COURSE ASSESSMENT METHODS

Direct

- 1. Continuous Assessment Test I,II
- 2. Open book test; Assignment; Seminar; Journal paper review, Group Presentation
- **3. End Semester Examination**

Indirect

Elective II: SERVICES MARKETING

SEMESTER – IV CREDITS: 5 HOURS/WEEK : 5

CODE: U22AG4:B TOTAL HOURS: 75

1. COURSE OUTCOMES

On Completion of this course, the students will be able to

S.No	Course Outcomes	Level	Unit Covered
1	Explain the recent opportunities in services marketing.	K2	Ι
2	Demonstrate the association between the fundamental Services concepts and the marketing mix.	К2	Ι
3	List the Service Quality models that can be adopted in corporate	K1	II
4	Apply the concept of quality function deployment to the various industries	К3	III
5	Evaluate the significance of various pricing strategies to face competition	K6	IV
6	Develop advertising strategies and tools for effective advertising decisions	K5	V

2A. SYLLABUS

UNIT-I INTRODUCTION TO SERVICES MARKETING 15 Hours

Services Marketing, Nature, Need, Classification of Services, Barriers and Issues in Services Marketing in the Indian Context.

UNIT –II MODELS OF SERVICES QUALITY 15 Hours

Gaps model of service quality, Expectations and perceptions, Measuring service quality, SERVQUAL, Building customer relationships and service recovery.

UNIT-III POSITIONING SERVICES

15 Hours

92

Positioning service, Development and designing services, Service Blue printing, Quality Function Deployment, Adding Value, Physical Evidence and services cape.

UNIT-IV PRICING STRATEGIES

Pricing strategies for services, Creating and Managing service delivery, Balancing demand and capacity, Waiting lines and reservation.

15 Hours

UNIT-V PROMOTIONAL STRATEGIES 15 Hours

Integrated services marketing communication, Services advertising strategies, Integrated model of services quality.

S. No	Topics	Web Links
1	Inbound Marketing	https://www.hubspot.com/inbound-marketing
2	Outbound Marketing	https://www.wordstream.com/outbound-marketing
3	Interrupt Marketing	https://whatis.techtarget.com/definition/interrupt- marketing#:~:text=Interrupt%20marketing%2C%20so metimes%20referred%20to,Mail%20campaigns.

2B. TOPICS FOR SELF STUDY

2C. TEXT BOOK:

 Valarie A Zeithmal and Mary Jo Bitner, "Services Marketing" – Integrating Customer Focus Across the Firm", TATA McGRAW HILL, New Delhi – 2002, 2nd Edition.

2D. REFERENCE BOOKS:

- Christopher Lovelock, "Services Marketing People, Technology, Strategy" Addison Wesley Longman (Singapore), Pearsons Education Asia – 2001, 4th Edition.
- 2. Roland T Rust, Anthony J Zahorik and Timothy L Keiningham, "Services Markeitng", Addison Wesley Longman (Singapore).

UNIT	COURSE CONTENTS	LEARNING OUTCOMES	TAXONOMY					
			LEVEL					
Ι	INTRODUCTION TO SERVICES MARKETING							

1.1	Services Marketing	Define Services Marketing	K1
1.1.1	Nature, Need,	Explain the need of services	K2
	Classification of		
	Services		
1.2	Barriers and Issues in	Analyze the barriers and issues in	K4
	Services Marketing in	services marketing	
	the Indian Context.		
II	M	ODELS OF SERVICES QUALITY	
2.1	Gaps model of service	Illustrate the gaps model of service	K2
	quality	quality	
2.2	Expectations and	Summarize the concept of customer	K2
	perceptions	expectations and perceptions	
2.3	Measuring service	Apply the methods of measuring	K3
	quality	service quality	
2.4	SERVQUAL	Apply Servqual to measure the quality	K3
		in organizations	
2.5	Building customer	Explain the methods of building	K2
	relationships and service	customer relationships and service	
	recovery.	recovery	
III		POSITIONING SERVICES	
3.1	Positioning service	Recall the concept involved in	K1
		positioning service	
3.2	Development and	Demonstrate the ways through which	K2
	designing services	services can be designated and	
2.2		developed	
3.3	Service Blue printing	Illustrate the concept of Blue printing	K2
3.4	Quality Function	Examine the applicability of Quality	K4
2.5	Deployment	Function Deployment	V1
3.5	Adding Value	List the ways through which value can be added	K1
3.6	Physical Evidence and	Explain about physical evidence and	K2
	services cape	services cape	
IV		PRICING STRATEGIES	
4.1	Pricing strategies for	Apply the pricing strategies in service	K3
	services.	sector	
4.2	Creating and Managing	Illustrate the ways of creating and	K2
	service delivery	managing service delivery	
4.3	Balancing demand and	Examine the methods through which	K4

	capacity	demand and supply can be matched	
4.4	Waiting lines and	Demonstrate the techniques of	К2
	reservation.	managing waiting lines and	
		reservations	
V		PROMOTIONAL STRATEGIES	
5.1	Integrated services	Explain about integrated services	K2
	marketing	marketing communication	
	communication		
5.2	Services advertising	Analyze the services advertising	K4
	strategies	strategies of an organization	
5.3	Integrated model of	Examine the uses of Integrated model	K4
	services quality.	of services quality.	

										PF	ROGRAM	ME SPEC	IFIC
	PROGRAMME OUTCOMES							OUTCOMES					
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	М	М	Н	-	-	Н	М	М	-	н	Н	Н	М
CO2	м	н	Н	М	М	Н	М	М	-	н	Н	М	М
CO3	М	M	М	М	Н	Н	н	Н	М	н	Н	Н	М
CO4	Н	М	М	Н	М	М	М	L	-	М	Н	Н	М
CO5	М	L	Н	Н	М	М	М	Н	L	н	Н	М	М
CO6	М	М	Н	М	М	М	М	М	L	н	Н	М	Н

5. COURSE ASSESSMENT METHODS

Direct

- 1. Continuous Assessment Test I,II
- 2. Open book test; Assignment; Seminar; Journal paper review, Group Presentation
- 3. End Semester Examination

Indirect

AVIATION SECURITY

SEMESTER-IV

COURSE CODE: U20AG4Y6 TOTAL HOURS: 60

CREDIT: 4

HOURS/WEEK: 4

1. COURSE OUTCOMES :

On Completion of this course, the student will be able to,

S. No	Course Outcomes	Level	Unit Covered
1	Define the terms related to aviation security	K1	Ι
2	Identify the process & equipment required for screening	K3	II
3	Identify the objects which are restricted in flight	K3	III
4	Determine the threat level for aviation and convention related to safeguarding aviation	K5	IV
5	Summarize hostage negotiation plan	K2	V
6	Outline the objective of aviation security	K2	Ι

2A. SYLLABUS

UNIT I – DEFENITIONS, OBJECTIVES AND THREATS 12 Hours

Aviation security and Airport security – Terminologies related to aviation security – Objectives of Aviation security – Nature of threats – Types / Characteristics of offenders.

UNIT II- SCREENING AND SEARCHING OF PASSENGERS AND STAFF 12 Hours

Stages involved in inspection/screening process – Equipments required for screening – X-ray examination of baggage – Physical inspection of baggage.

UNIT III– RESTRICTED ARTICLES AND SUBSTANCES 12 Hours

Definition – Categories of restricted articles – Improvised explosive devices – Places of concealment of Explosives – Types of explosives detectors – Bomb threat – Threat to an airborne aircraft.

UNIT IV-AIRCRAFT HIJACKING AND INTERNATIONAL CONVENTIONS

12 Hours

Unlawful seizure of Aircraft(Hijacking) – Why is Civil aviation considered as an attractive target? – Where can the threats come from? – Historical review of the past incidents – Dealing with the hijacking situation onboard – Tokyo convention Hague convention – Montreal convention.

UNIT V- HOSTAGE NEGOTIATION

12 Hours

Hostage situation – Hostage situation move through several distinct phases – Hostage takers – The negotiator arrives on the scene – Negotiator objectives and tactics – Making a deal with the hostage taker – Role of Cabin crew in hostage situation.

2B. TOPICS FOR SELF STUDY

S. No	Topics	Web Links			
1	Emerging security threat in	http://blog.safe-passage.com/emerging-threats-to-			
	aviation security	aviation-security			
2	Improvised explosive devises	https://en.wikipedia.org/wiki/Improvised_explosive_devi			
		<u>e</u>			
3	Improved passenger screening	https://www.futuretravelexperience.com/2016/08/new-			
	technology	technologies-strive-to-enhance-airport-security/			

2C. REFERENCE BOOKS:

R.K.Bali - Navigation

Ground Studies for Pilots - Navigation

Oxford – General Navigation

UNIT	COURSE CONTENTS	LEARNING OUTCOMES	TAXONOMY
			LEVEL
Ι	DEFENITI	ONS, OBJECTIVES AND THREATS	5
1.1	Aviation security and	Explain the need of aviation security	K2
	airport security		
1.2	Terminology related to	Define the terms related to aviation	K1
	aviation security	security	

1.3	Objectives of aviation	List out the roles & responsibilities	K4							
	security	of aviation security units								
1.4	Nature of threats	Determine the threats for aviation	K5							
1.5	Characteristics of offenders	Identify the offenders	K3							
II	SCREENING AND SEARCHING OF PASSENGERS AND STAFF									
	Stages involved in	List out the stages in screening	K4							
2.1.0	inspection/screening	process								
	process									
2.1.1	Equipment required for	Choose the correct equipment for	К3							
2.1.1	screening	specific purpose of screening								
2.1.2	x-ray examination of	Explain the process of screening	К2							
2.1.2	baggage	baggage using x-ray								
2.1.3	Physical inspection of	Explain the process of physical	К2							
2.1.5	baggage	inspection of baggage								
III	RESTRICT	ED ARTICLES AND SUBSTANCES	5							
3.1.0	Definition	Define the terms related with	K1							
5.1.0		restricted article								
3.1.1	Categories of restricted	List out the items which are K4								
5.1.1	items	restricted								
3.1.2	Improvised explosive	Explain IED	К2							
5.1.2	devises									
3.1.3	Places of concealment	Identify the places of concealment	K3							
5.1.5	of explosive	of explosives								
3.1.4	Types of explosive	Compare different type of detector	K4							
5.1.4	detector	for a particular purpose								
3.1.5	Bomb threat	Decide what to do in bomb threat K5								
5.1.5		situation								
3.1.6	Threat to an airborne	Plan contingency procedure	K6							
5.1.0	aircraft									
IV	AIRCRAFT HIJACKI	NG AND INTERNATIONAL CONV	ENTIONS							
4.1.0	Unlawful seizure of	Explain the meaning of hijack	К2							
4.1.0	aircraft									
	Why civil aviation	List out the reason for hijack	K4							
4.1.1	considered as an									
	atrractive target									
4.1.2	Where are the threats	Identify the area of threats	К3							
4.1.2	come from									
4.1.3	Historical review of past	Recall past incidents for future	K1							

	incidents	protection	
4.1.4	Dealing with hijacking	Explain the procedure of negotiation	K2
	situation onboard		
4.1.5	Tokyo convention, hague	List out the important contents of	K4
	convention, mondreal	theses convention	
	convention		
V	Н	OSTAGE NEGOTIATION	
5.1.0	Hostage situation	Assume the situation of hostages	K4
	Hostage situation move	Explain the situation of hostages	K2
5.1.1	through several distinct	during several phases	
	phases		
5.1.2	The negotiators arrives on	Outline the negotiation of the scene	K2
3.1.2	the scene		
512	Negotiators objectives &	Formulate the objective of	K6
5.1.3	tactics	negotiator	
514	Making a deal with	Outline the procedure of negotiation	K2
5.1.4	hijackers		
515	Role of cabin crew in	Decide the responsibility of cabin	K5
5.1.5	hijacking situation	crew during negotiation process	

	PROGRAMME OUTCOMES							PROGRAMME SPECIFIC OUTCOMES					
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	Н	L	М	М	М	-	М	М	М	М	М	М	М
CO2	М	Н	-	М	L	L	Н	Н	Н	L	Н	Н	Н
CO3	М	L	Н	Н	Н	Н	Н	М	М	L	-	L	Н
CO4	L	М	Н	Н	Н	Н	М	М	М	-	М	Н	М
C05	М	М	Н	Н	-	L	М	М	М	-	L	М	М
CO6	М	М	Н	Н	Н	М	Н	L	М	М	М	Н	Н

5. COURSE ASSESSMENT METHODS

Direct

- 1. Continuous Assessment Test I,II
- 2. Open book test; Assignment; Seminar; Journal paper review, Group Presentation
- 3. End Semester Examination

Indirect

AIRPORT GROUND HANDLING MANAGEMENT

SEMESTER-IV CREDITS: 2 HOURS/WEEK: 2

COURSE CODE: U21AGPS2 TOTAL HOURS: 30

1. COURSE OUTCOMES :

On Completion of this course, the student will be able to,

S. No	Course Outcomes	Level	Unit Covered
1	Apply the previous knowledge in different scenario	K3	Ι
2	Experiment with manual flight planning & flight dispatch exercise	К3	Ι
3	Adapt to irregularity and handle the situation	K6	II
4	Take part in written and oral exam conducted by airline company	K4	II
5	Function as simulated flight dispatch operation	K4	III
6	Plan for diversion & rerouting	K3	III

2A. SYLLABUS

PRACTICAL EXERCISES – 1

- Integration of previously acquired knowledge and practical application in different scenarios
- Manual flight planning and flight dispatch exercises

PRACTICAL EXERCISES – 2

- Operational control and irregularity handling exercises
- Written and Oral exam preparation

PRACTICAL EXERCISES – 3

- Operations control and flight dispatch simulation
- Handling diversions and rerouting.

10 Hours

10 Hours

2B. TOPICS FOR SELF STUDY

S. No	Topics	Web Links			
1	Roles and responsibility of	https://en.wikipedia.org/wiki/Flight_dispatcher			
	flight dispatcher				
2	Route diversion procedure	https://www.firstflight.com/private-pilot-			
		course/diversions-and-lost-procedures/			
3	Flight plan explanation	https://www.skybrary.aero/index.php/Flight_Plan_Compl			
		etion			

2C. REFERENCE BOOKS:

ICAO Annex 14 Volume 1 Aerodrome Design and Operations.

UNIT	COURSE CONTENTS	LEARNING OUTCOMES	TAXONOMY LEVEL			
Ι	PR					
1.1	Integration of previously	Apply the previous knowledge in	К3			
	acquired knowledge and	different scenario				
	practical application in					
	different scenarios					
1.2	Manual flight planning and	Experiment with manual flight	K3			
	flight dispatch exercises	planning & flight dispatch exercise				
II	PR	ACTICAL EXERCISES – 2				
	Operational control and	Adapt to irregularity and handle the	K6			
2.1.0	irregularity handling	situation				
	exercises					
2.1.1	Written and Oral exam	Take part in written and oral exam	K4			
2.1.1	preparation	conducted by airline company				
III	PRACTICAL EXERCISES – 3					
	Operations control and	Function as simulated flight dispatch	K4			
3.1.0	flight dispatch	operation				
	simulation					
3.1.1	Handling diversions and	Plan for diversion & rerouting	К3			

rerouting		
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							PROGRAMME SPECIFIC						
		PROGRAMME OUTCOMES						OUTCOMES					
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	н	L	М	М	М	-	Μ	Μ	М	М	М	М	М
CO2	M	Н	-	М	L	L	Н	Н	Н	L	Н	Н	Н
CO3	М	L	Н	Н	Н	Н	Н	М	М	L	-	L	Н
CO4	L	М	Н	Н	Н	Н	М	М	М	-	М	Н	М
CO5	М	М	Н	Н	-	L	М	М	М	-	L	М	М
CO6	М	М	Н	Н	Н	М	Н	L	М	М	М	Н	Н

5. COURSE ASSESSMENT METHODS

Direct

- 1. Continuous Assessment Test I,II
- 2. Open book test; Assignment; Seminar; Journal paper review, Group Presentation
- 3. End Semester Examination

Indirect

EXTRA DISCIPLINARY COURSE NMEC II: FUNDAMENTALS OF MARKETING

SEMESTER: IV

CODE: U20AG3E2

CREDITS: 2

TOTAL HOURS: 30

HOURS/WEEK: 2

1. COURSE OUTCOMES :

On completion of this course, the student will be able to,

S. No	Course Outcomes	Level	Unit Covered
1	Demonstrate understanding of marketing terminology and concepts.	K2	Ι
2	Identify wants and environmental factors that shape marketing activities for certain target markets	К3	Ι
3	Demonstrate knowledge of the individual components of a marketing mix.	K2	П
4	Demonstrate knowledge of kinds of pricing within the marketing field.		III
5	Identify the organizational processes involved in the channels of distribution		IV
6	Demonstrate knowledge regarding Product advertising and sales promotion	K2	V

2A. SYLLABUS

UNIT-I INTRODUCTION

Marketing - Meaning – Features - Importance - Merchandising - Marketing& Selling - Macro view of marketing - What is service – Consumer - Direct marketing

UNIT-II MARKETING MIX

Marketing mix – Product – Meaning – Features – Classification - Product line - Product mix – Brand – Features – Types - Brand name

UNIT-III PRICE

Price – Meaning – Importance – Kinds - Price leader

UNIT-IV PLACE- DISTRIBUTION

Place - Channels of distribution (Types)

6 Hours

6 Hours

6 Hours

UNIT-V PROMOTIONAL MIX

Promotion - Meaning - Importance - Types of Advertisement - Salespromotion - Publicity

2B. TOPICS FOR SELF STUDY

S. No	Topics	Web Links
1	Green Marketing	https://www.businessmanagementideas.com/marketin g/green-marketing/20101
2	Global Marketing	https://www.businessmanagementideas.com/marketin g/global-marketing/global-marketing/20654
3	Advertising Management in Marketing	https://www.managementstudyguide.com/advertising- management.htm
4	Brand Strategies in Marketing	http://www.marketingmo.com/strategic- planning/brand-strategy/

2C. TEXT BOOK:

1.Rajan Nair, Marketing Management, 19th Edition, sultan Chand & Sons, 2020

2. Rajan Saxena, Marketing Management -4th Edition, McGraw Hill Education, 2009

2D. REFERENCE BOOKS:

 Ramasamy and Namakumari , Marketing management, 4th Edition, Om Books, 2010
 Michael J Etzel, Bruce J Walker, Fundamentals of Marketing, 14th Edition, McGraw Hill, International Edition, 2017

3.Philip Kotler, Marketing Management, 13th edition, Prentice hall of India ,2005

UNIT	COURSE CONTENTS	LEARNING OUTCOMES	TAXONOMY LEVEL
Ι	INT	RODUCTION	
1.1.0	Marketing	Define Marketing	K1
1.1.1	Meaning	Explain the term marketing	К2
1.1.2	Features	List the features of marketing	К2

1.1.3	Importance	List the importance of marketing	K2
1.2.0	Merchandising	Explain the term merchandising	K2
1.2.1	Marketing& Selling	Compare marketing & selling	K2
1.3.0	Macro view of marketing	Recall Macro view of marketing	K2
1.3.1	What is service	Recall what is service	K2
1.3.2	Consumer	Recall the importance of consumer	K2
1.3.3	Direct Marketing	Illustrate the meaning of direct marketing	K1
II]	MARKETING MIX	
2.1.0	Marketing Mix	Explain the concept of marketing mix	K1
2.1.1	Product	Recall the concept of product	K1
2.1.2	Meaning	Illustrate the meaning of product	K1
2.1.3	Features	List the features of product	K2
2.1.4	Classification	Explain the various classification of product	K2
2.2.0	Product Line	Explain product line	K2
2.3.0	Product mix	Explain product mix	K2
2.4.0	Brand	Explain the term Brand	K2
2.4.1	Features	List the features of brand	K2
2.4.2	Types	List the types of brand	K2
2.4.3	Brand Name	Illustrate the brand name	K2

III	PRICE							
3.1.0	Price	Define pricing						
3.1.1	Meaning	Illustrate the meaning of pricing	K1					
3.1.2	Importance	Explain the importance of pricing	K2					
3.1.3	Kinds of Pricing	List the kinds of pricing	K2					
3.1.4	Price Leader	Explain the price leader	K2					
IV	PLACI	E - DISTRIBUTION						
4.1.0	Place	Explain the term place	K2					
4.2.0	Channels of Distribution(Types)	List the types of Channels K2 of Distribution						
V	PRO	PROMOTIONAL MIX						
5.1.0	Promotion	Explain promotion	K2					
5.1.1	Meaning	Illustrate the meaning of promotion	K1					
5.1.2	Importance	Explain the importance of promotional mix	K2					
5.1.3	Types of Advertisement	List the Types of Advertisement	K2					
5.1.4	Sales Promotion	Demonstrate Sales Promotion	K2					
5.1.5	Publicity	Demonstrate Publicity	K2					

	PROGRAMME OUTCOMES							PROGRAMME SPECIFIC OUTCOMES					
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	Н	Н	М	Н	Н	М	М	М	Н	М	L	М	Н
CO2	Н	М	Н	Н	Н	М	М	Н	М	L	-	L	Н
CO3	М	М	М	М	М	L	М	Н	-	М	М	М	М
CO4	Н	Н	М	М	L	Н	Н	М	L	Н	М	Н	L
CO5	М	М	М	Н	L	М	М	М	-	Н	-	Н	-
CO6	Н	М	М	М	L	Н	L	Н	L	М	L	М	L

5. COURSE ASSESSMENT METHODS

Direct

- 1. Continuous Assessment Test I,II
- 2. Open book test; Assignment; Seminar; Journal paper review, Group Presentation
- 3. End Semester Examination

Indirect

SEMESTER V

S.No	Course Title	Course Code
1.	Human Resource Management	U20AG505
2.	Planning And Crew Scheduling	U21AG506
3.	General Navigation	U20AG507
4.	Dangerous goods regulations	U20AG508
	Investment Management	U22AG5:A
5.	Project Management	U22AG5:B
	Retail Management	U22AG5:C
6.	Interview Skills	U20AG5S3

Core V: HUMAN RESOURCE MANAGEMENT

SEMESTER: V CREDITS: 5 HOURS/WEEK: 6

CODE: U20AG505 TOTAL HOURS: 75

1. COURSE OUTCOMES :

On completion of this course, the student will be able to,

S.	Course Outcomes	Level	Unit Covered
No			
1	Interpret employee recruitment, selection, and retention plans and processes.	K2	Ι
2	Explain the methods to administer and contribute to the design and evaluation of the performance management system.	K2	III
3	Illustrate a training program using an appropriate framework for evaluating needs for training, designing a training program, and evaluating the training output.	K2	IV
4	Understand the HR environment in India, human resource functions within organizations, importance of workers participation in management and creating stress free work environment through counseling and mentoring.	К2	II
5	Plan human resources requirement and formulate HR policy of the organisation with regard to recruitment, selection, training and career planning.	К3	V
6	Appraise the employee's performance and formulate compensation policy which helps to make organizational excellence & analyze the ethical issues in HR management.	K5	Ι

2A. SYLLABUS

UNIT-I INTRODUCTION TO HUMAN RESOURCE MANAGEMENT 15 Hours

Introduction, Processes and functions of HR management, HR Department Organization, Role of HR Manager in the organization.

UNIT-II HUMAN RESOURCE PLANNING 15 Hours

HR Planning- Concepts and Methods: Job Analysis, Job Description, Job Specification, Selection process, Employment tests and interviews.

UNIT-III INDUCTION AND PERFORMANCE APPRAISAL 15 Hours

Induction and Performance Appraisal, Induction programme, Different training methods in company, Performance appraisal and review.

UNIT-IVWAGE AND SALARY ADMINISTRATION 15 Hours

Wage and Salary Administration, Job Evaluation methods, Wages: Different patterns of wage payments- time rate, Piece rate, Wage incentives and Bonus.

UNIT-V INTRODUCTION TO HR AUDIT

Concept of HR Audit, Separation and its types, Retirement benefits: Gratuity, Provident Fund and pension scheme.

15 Hours

2B. TOPICS FOR SELF STUDY

S. No	Topics	Web Links
1	Job Enrichment	https://www.digitalhrtech.com/job- enrichment/#:~:text=is%20job%20enrichment%3F- ,A%20definition,creating%20autonomy%2C%20and %20giving%20feedback.
2	Trade Unions in India	https://en.wikipedia.org/wiki/Trade_unions_in_India
3	Participative Management	https://www.indeed.com/career-advice/career- development/participative-management

2C. TEXT BOOKS:

- 1. S. P Gupta- Human Resource Management –15th Edition, S.Chand & sons, 2014
- 2. Praveen Durai- Human Resource Management -Pearson Publications.

2D. REFERENCE BOOKS:

- 1. Memoria Personnel Management –Himalaya Publishing House, 2007.
- 2. Edwin Fillippo Personnel Management MGraw Hill, 3rdEdition 1971.

UNIT	COURSE CONTENTS LEARNING OUTCOMES		TAXONOMY LEVEL			
Ι	INTRODUCTION TO HUMAN RESOURCE MANAGEMENT					
1.1.0	Introduction	Explain the effective management of Human resource.	К2			
1.1.1	Processes and functions of HR management	Recall the processes & to explain the functions involved in HR management.	K1			
1.1.2	HR Department Organization	Recall the organization of HR Department.	K1			
1.1.3	Role of HR Manager in the organization	Analyse the various roles of HR manager in the organization.	K4			
II	HUMAN	RESOURCE PLANNING				
2.1.0	HR Planning	Understand the meaning & scope of HR Planning.	K2			
2.1.1	Concepts and Methods	Explain the concepts & different methods of HR Planning.	К2			
2.1.2	Job Analysis	Classify the Job analysis methods.	K2			
2.1.3	Job Description	Explain job description.	K2			
2.1.4	Job Specification	Explain Job specification.	K2			
2.1.5	Selection process	Recall the selection process involved in recruitment of human resource.	K1			

2.1.6	Employment tests and interviews	Assess the different types of employment tests & interviews.	K5
III	INDUCTION ANI	D PERFORMANCE APPRAISAI	
	Induction and Performance	Define Induction & to	K1
3.1.0	Appraisal	evaluate the Performance	
		appraisal methods.	
	Induction programme	Summarize the different	K2
3.1.1		steps in conducting Induction	
		programme.	
	Different training methods in	List down the different	K1
	company	training methods & know the	
3.1.2		importance of training the	
		employees in an	
		organization.	
	Performance appraisal and	Classify the performance	K2
	review	appraisal system in a	
3.1.3		company & to know the	
		importance of reviewing the	
		appraisal system frequently.	
IV	WAGE AND S	ALARY ADMINISTRATION	
	Wage and Salary	Define & to know the	K1
4.1.0	Administration	importance of wage & salary	
		administration.	
4.1.1	Job Evaluation methods	Classify the Job evaluation	K2
1.1.1		methods.	
	Wages	Recall the principles &	K 1
4.1.2		purpose of wage & salary	
		administration.	
	Different netterns of wass	Demonstrate the different	K2
4.1.3	Different patterns of wage payments - Time rate, Piece	patterns of wage payments.	NZ
ч .1.3	rate	patients of wage payments.	
	Wage incentives and Bonus	Determine the wage	K5
4.1.4		incentives & bonus.	
V	INTROD	UCTION TO HR AUDIT	
		Explain the concepts of HR	K2
5.1.0	Concept of HR Audit	Audit.	
	Separation and its types	Classify the different types	K2
5.1.1		of separation of employees	
		from the organization.	

5.1.2	Retirement benefits.	Determine the importance of	K5
5.1.2		retirement benefits.	
	Gratuity, Provident Fund and	Explain the various forms of	K2
5.1.3	pension scheme.	retirement benefits.	

		PROGRAMME OUTCOMES							PRO	GRAMN OUTC	1E SPEC OMES	CIFIC	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
C01	Н	L	Н	М	Н	L	М	Н	М	Н	М	М	-
CO2	L	-	Н	М	Н	н	М	-	L	М	н	Н	L
CO3	Н	Н	-	-	М	н	М	L	-	М	н	L	Н
CO4	M	L	Н	М	М	L	Н	М	L	Н	Μ	-	L
CO5	Н	Н	Н	L	М	М	Н	Н	Н	L	-	н	М
CO6	Н	М	Н	М	-	М	L	Н	Н	-	Н	М	М

5. COURSE ASSESSMENT METHODS

- 1. Continuous Assessment Test I,II
- 2. Open book test; Assignment; Seminar; Journal paper review, Group Presentation
- 3. End Semester Examination

Indirect

PLANNING AND CREW SCHEDULING

SEMESTER-V CREDITS: 5 HOURS/WEEK: 6

COURSE CODE: U21AG506 TOTAL HOURS: 75

1. COURSE OUTCOMES :

On Completion of this course, the student will be able to,

S. No	Course Outcomes	Level	Unit Covered
1	Outline the basic flight planning procedure	K2	Ι
2	Summarize advanced flight planning procedure	K2	II
3	Organize the refuelling procedure	K3	III
4	Develop before flight preparation report	K6	IV
5	Organize crew roistering	К3	V
6	Explain the restriction during refueling of fight	K2	III

2A. SYLLABUS

UNIT I-BASIC FLIGHT PLANNING

Introduction to flight planning – Route and profile planning – Time, Speed and Fuel calculations – Weather considerations – Aircraft technical status considerations

UNIT II - ADVANCED FLIGHT PLANNING 15 Hours

Operational flight plan – Alternate airport selection – Practical flight planning exercises – Advanced dispatch techniques introduction.

UNIT III – FUELING AND RESTRICTIONS

Airport Restrictions – Airport Categorization – Sector Limitations – Fuel Calculations – Crew Duty and rest time Regulations – Ground Equipment – Refuelling Procedures and Services.

15 Hours

UNIT IV- BEFORE FLIGHT PREPARATION REPORT

Conversion – Met report briefing – load and Trim sheet – clearance from Flight Information Centre and Air Defence Centre.

UNIT V – CREW SCHEDULING

Definition of Flight time & Flight Duty Time – Flight Time & Flight duty time restrictions for a crew per day/per week/per month for domestic and international flight – restrictions on number of landings for a crew per day/per week/per month for domestic and international flight – maximum extension of flight duty period in case of flight crew is augmented

2B. TOPICS FOR SELF STUDY

S. No	Topics	Web Links
1	Refueling and defueling risks	https://www.skybrary.aero/index.php/Refuelling_and_De
		fuelling_Risks
2	Weather which affect the safety	https://www.airservicesaustralia.com/about-us/our-
	of aircraft operation	services/how-air-traffic-control-works/impact-of-
		weather/
3	How delay affects aviation	https://www.trefis.com/stock/dal/articles/375013/what-
	business	is-the-impact-of-flight-delays/2016-08-31

2C. REFERENCE BOOKS:

- R.K.Bali Navigation
- Ground Studies for Pilots Navigation

3. SPECIFIC LEARNING OUTCOMES (SLO):

UNIT	COURSE CONTENTS			LEARNING OUTCOMES	TAXONOMY LEVEL		
Ι	BASIC FLIGHT PLANNING						
1.1	Introduction	to	flight	Outline the basic of flight planning	K2		

15 Hours

	planning	procedure			
1.2	Route & profile planning	Decide the route and profile to be	K5		
		followed by a flight			
1.3	Time speed & fuel	Solve calculation related to time	К2		
	calculation	speed and fuel			
1.4	Weather consideration	Plan a flight in accordance to	K6		
		weather condition			
1.5	Aircraft technical status	Plan a flight in accordance to the	K6		
	concideration	technical status of aircraft			
II	ADV	ANCED FLIGHT PLANNING			
2.1.0	Operational flight plan	Construct a flight plan	К3		
2.1.1	Alternate airport	Choose alternate airport	К3		
2.1.1	selection				
2.1.2	Practical flight planning	Experiment with simulated flight planning	К3		
2.1.2	excerscise				
2.1.3	Advanced dispatch	Outline the basics of advanced dispatch	K2		
2.1.3	technique introduction	technique			
III	FUE	LING AND RESTRICTIONS			
3.1.0	Airport restriction	Summarize the general restriction in airport	K2		
3.1.1	Airport categorization	Categorize the airport according to its	K4		
5.1.1		classification			
3.1.2	Sector limitation	ctor limitation List out the general limitation in sector			
3.1.3	Fuel calculations	Solve fuel calculations	K2		
3.1.4	Crew duty and rest time	Organize crew duty & rest time properly	К3		
	regulation				
3.1.5	Ground equipments	List out ground equipments & its uses	K4		
3.1.6	Refueling procedure &	Explain the procedure for refueling	K2		
	service				
IV	BEFORE I	FLIGHT PREPARATION REPORT			
4.1.0	Conversion	Recall basic unit conversion	K1		
4.1.1	Met report briefing	Interpret met report	K2		
4.1.2	Load & trim sheet	Construct load & trim sheet	К3		
4.1.3	Clearance from FIC & ADC	Apply for FIC & ADC clearance	K3		
V		CREW SCHEDULING			
510	Definition of flight time	Define Flight time & flight duty time	K1		
5.1.0	& flight duty time				
511	Flight time & flight duty	List out the time restriction for a crew per	K4		
5.1.1	time restriction for a	day/ per week/ per month for domestic and			

	crew per day/ per week/	international flight	
	per month for domestic		
	and international flight		
	Restrictions of no of	List out the restrictions of no of landings for	K4
	landings for a crew per	a crew per day/ per week/ per month for	
5.1.2	day/ per week/ per	domestic and international flight	
	month for domestic and		
	international flight		
	Maximum extension of	Explain the procedure to extend the flight	К2
5.1.3	flight duty period in	duty period in case of flight crew is	
5.1.5	case of flight crew is	augmented	
	augmented		

	PROGRAMME OUTCOMES								PROGRAMME SPECIFIC OUTCOMES				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	Н	L	М	М	М	-	М	М	М	М	М	М	М
CO2	М	Н	-	М	L	L	Н	н	н	L	Н	Н	Н
CO3	М	L	Н	Н	Н	Н	Н	М	М	L	-	L	Н
CO4	L	М	Н	Н	Н	Н	М	М	М	-	М	Н	М
C05	М	М	Н	Н	-	L	М	М	М	-	L	М	М
CO6	М	М	Н	Н	Н	М	Н	L	М	М	М	Н	Н

5. COURSE ASSESSMENT METHODS

Direct

- 1. Continuous Assessment Test I,II
- 2. Open book test; Assignment; Seminar; Journal paper review, Group Presentation
- 3. End Semester Examination

Indirect

GENERAL NAVIGATION

SEMESTER-V

COURSE CODE:U20AG507

CREDITS: 5

TOTAL HOURS: 75

HOURS/WEEK: 6

1. COURSE OUTCOMES :

On Completion of this course, the student will be able to,

S. No	Course Outcomes	Level	Unit Covered
1	Explain various terms of imaginary line over globe	K2	Ι
2	Solve the problem related to speed conversion	K6	II
3	Solve the problems related to mass calculation	K6	III
4	Select a particular chart for a particular region	K5	IV
5	Choose the efficient cruising level	K5	V
6	Explain the different messurent of airspeed	K2	II

2A. SYLLABUS

UNIT I - THE EARTH

15 Hours

15 Hours

The cardinal Points, The Earth Graticule, Great Circles, Meridians and Anti Meridians, Small Circles, The Equator, Latitude, Longitude, The Prime Meridian, Difference in Latitude and Longitude, Great Circle Tracks, Rhumb Line Tracks.,360 degree notation, True Direction, Magnetic Direction and Variation, Isogonals, Magnetic Direction, Compass Direction and Deviation, Convergency.

UNIT II - SPEED CONVERSIONS

Statute Mile, Nautical Mile, Kilometer, Conversion between Units, Departure, Meters and Feet, Basic principles of Circular Slide Rule., units of Speed, Knots, Miles per Hour, Kilometers per Hour, Indicated Airspeed, Rectified Airspeed, True Airspeed, Equivalent Airspeed, Ground Speed, Mach Number, Calibrated Airspeed, Correct Outside Air Temperature, Conversion of Rectified Airspeed to True Airspeed, Conversion of Mach number to True Airspeed, Speed, Distance and Time; Relationships and Calculations.

UNIT III - PAYLOAD

Basic empty mass – Tare weight – Dry operating Mass (DOM) – Traffic Load – Useful load – Fuel on Board – Zero Fue Mass (ZFM) – Maximum Zero Fuel Mass (MZFM) – Take off Mass (TOM) – MTOM – Performance Limited takeoff mass – Regulated take off mass – Maximum Structural Landing Mass – (MLM) – Maximum Ramp Mass - Max Structural Taxi Mass – Calculation

UNIT IV - MAPS AND CHARTS

Mercator projection, Lambert Conical, Polar stereographic projection, Orthomorphism, Scale, The Reduced Earth, Topographical Maps

UNIT V - FUEL AND NAVIGATIONAL EMERGENCY DATA 15 Hours

Imperial Gallons and US Gall, Conversion factors, specific gravity, fuel flow and fuel consumption, selecting the most economical cruising level, Payload

2B. TOPICS FOR SELF STUDY

S. No	Topics	Web Links
1	Latitudes and longitudes	https://www.geographyrealm.com/latitude-longitude/
2	Different measurements of	https://en.wikipedia.org/wiki/Airspeed
	airspeed	
3	Comparision between different	https://www.google.com/url?sa=t&rct=j&q=&esrc=s&sou
	charts and its properties	<pre>rce=web&cd=&ved=2ahUKEwi7vKK31ojxAhV9yzgGHZo4D</pre>
		eoQFnoECAMQAA&url=https%3A%2F%2Fwww.pilot18.co
		m%2Fwp-content%2Fuploads%2F2017%2F06%2F3-GN-
		Charts-convergency-Map-
		projections.pdf&usg=AOvVaw1N-YsKrLiQJxKi-HeUXC6K

2C. REFERENCE BOOKS:

Ground studies for pilot-Navigation 6th edition royunder down& tony palmer.

Navigation for pilots by J. E. Hitchcock

3. SPECIFIC LEARNING OUTCOMES (SLO):

UNIT	COURSE CONTENTS	LEARNING OUTCOMES	TAXONOMY LEVEL				
Ι	THE EARTH						
1.1	Cardinal points	List out the cardinal directions	K4				

15 Hours

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1.2	The earth graticule	Illustrate graticule	K2			
1.3	Great circle	Explain great circle	K2			
1.4	Meridian & anti meridian	Classify meridian and anti meridian	K4			
1.5	Small circle	Define small circle	K1			
1.6	Equator	Recall the definition of equator	K1			
1.7	latitude	Recall the definition of latitude	K1			
1.8	Longitude	Recall the definition of longitude	K1			
1.9	Prime meridian	Recall the definition of prime meridian	K1			
1.10	Difference between latitude and longitude	Classify the difference between latitude and longitude	К3			
1.11	Rhumb line	Identify which is Rhumb line	K3			
1.12	Track	Classify the different type types of track	К3			
1.13	360 degree notation	Explain 360 degree notation	K2			
1.14	True heading, magnetic heading, compass heading	Compare three heading	K4			
1.15	Variation and deviation	Illustratie variation and deviation	K2			
1.16	Convergency	Solve convergency problem	K6			
II		SPEED CONVERSIONS				
2.1.0	Staute mile	Define statute mile	K1			
2.1.1	Nautical mile	Define nautical mile	K1			
2.1.2	Kilometer	Recall the definition of kilometer	K1			
2.1.3	Conversion between units	Solve the problem of unit conversion	K6			
2.1.4	Departure	Define departure	K1			
0.1.5	Basic principle of semi	Outline the principle of semi	K2			
2.1.5	circular rule	circular rule				
2.1.6	IAS, TAS, EAS, Ground Speed, Mach. No, CAS	Explain the different methods of measurements of airspeed	K2			
2.1.7	Corrected outside air temperature	Explain the purpose of measuring outside air temperature	K2			
2.1.8	Conversion of RAS to TAS, Mach no to TAS	Solve the airspeed conversion	K6			
2.1.9	Speed, Distance, Time, Relationship & calculation	Compare the relationship between speed, distance and time	K2			
III		PAYLOAD				

3.1.1	Tare weight	Define Tare weight	K1
3.1.2	Dry operating mass	Measure dry operating mass	K5
3.1.3	Traffic load	Explain Traffic load	K2
3.1.4	Useful Load	Define useful load	K1
3.1.5	Fuel on board	Solve the fuel required on board	K3
216	Zero fuel mass, Max.	Differentiate between zero fuel mass	K4
3.1.6	Zero fuel mass	and max zero fuel mass	
	Take off mass, max take	Differentiate different limitation of	K4
217	off mass & performance	take off mass	
3.1.7	limiting take offmass,		
	regulated take off mass		
210	Max. structural landing	Explain max. structural landing	K2
3.1.8	mass	mass	
3.1.9	Max. Ramp mass	Mesure max. ramp mass	K5
2 1 10	Max. structural Taxi	Solve problems related to mass	K3
3.1.10	mass	calculation	
IV		MAPS AND CHARTS	
4.1.0	Mercator projection	Elaborate Mercator projection	K6
4 1 1	Lamberts conical	Explain the places where LCC can	K2
4.1.1		be used	
4 1 2	Polar stereographic	Choose the appropriate chart for	K5
4.1.2		appropriate area	
4.1.3	Orthomorphism scale	Explain orthomorphism scale	K2
4.1.4	Reduced earth	Construct reduced earth	K6
4.1.5	Topographical maps	Explain topographical maps	K2
V	FUEL AND N	AVIGATIONAL EMERGENCY DATA	L
510	Imperial and US gallons	Distinguish between Imperial and	K4
5.1.0		US gallons	
7 1 1	Conversion factor	Solve the problems related to unit	K6
5.1.1		conversion	
5.1.2	Specific gravity	Explain specific gravity	K2
51 0	Fuel flow and fuel	Compare flow of fuel and	K5
5.1.3	consumption	consumption of fuel	
7 1 4	Select the most economical	Choose the economical cruising	K6
5.1.4	cruising level	level	
5.1.5	Payload	Explain Payload	K2

	PROGRAMME OUTCOMES							PROGRAMME SPECIFIC OUTCOMES					
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	Н	L	М	М	М	-	М	М	М	М	М	М	М
CO2	М	Н	-	М	L	L	Н	Н	Н	L	Н	Н	Н
CO3	М	L	Н	Н	Н	Н	Н	М	М	L	-	L	Н
CO4	L	М	Н	Н	Н	Н	М	М	М	-	М	Н	М
C05	М	М	Н	Н	-	L	М	М	М	-	L	М	М
CO6	М	М	Н	Н	Н	М	Н	L	М	М	М	Н	Н

5. COURSE ASSESSMENT METHODS

Direct

- 1. Continuous Assessment Test I,II
- 2. Open book test; Assignment; Seminar; Journal paper review, Group Presentation
- 3. End Semester Examination

Indirect

DANGEROUS GOODS REGULATIONS

SEMESTER-V

COURSE CODE: U20AG508

15 Hours

CREDITS: 5

TOTAL HOURS: 75

HOURS/WEEK: 5

1. COURSE OUTCOMES :

On Completion of this course, the student will be able to,

T. No	Course Outcomes	Level	Unit Covered
1	Know the importance of rules & recommendation by	K5	Ι
	national & international governing bodies		
2	Categorize the dangerous goods and list out according the	K4	Π
	hazard and danger		
3	List out the different classification of dangerous goods	K2	III
	and choose appropriate packing, marking and labelling		
4	Elobrate knowledge about handling different dangerous	K6	IV
	goods while loading them		
5	Apply different emergency procedure according to the	K3	V
	risk of hazardous material		
6	Compare the basic concepts of standard practices and	K5	IV
	safety measure when carrying dangerous goods		

2A. SYLLABUS

UNIT I – CARRIAGE OF DANGEROUS GOODS

ICAO requirements – Government of India requirements – Aircraft Act 1934 – The aircraft (carriage of dangerous goods) Rules, 2003.

UNIT II- DANGEROUS GOODS DEFINITIONS 15 Hours

Definition of dangerous goods – Dangerous goods categories.

UNIT III– CLASSIFICATION OF DANGEROUS GOODS 15 Hours

Name of the class – Divisions – Identification – Packing – Marking and labelling.

UNIT IV – HANDLING OF DANGEROUS GOODS 15 Hours

Preloading inspection – Loading requirements – [Loading of magnetized material – Loading of Carbon dioxide solid (Dry ice) – Loading of live animals with dangerous goods – Loading of cargo aircraft – Loading of expandable polymeric beads – Loading of wheel chairs and other battery powered mobility aids – non-spillable batteries – Loading of organic peroxides and self- reactive substances – Loading of radioactive material.]

UNIT V- AIRCRAFT EMERGENCY RESPONSE DRILLS 15 Hours

Emergency response drills – Drill letter table – Numerical list of dangerous goods with drill codes.

S. No	Topics	Web Links
1	Role of dangerous goods	http://164.100.60.133/manuals/DG_INSPECTORS%20HAN
	inspector	DBOOK.pdf
2	Introduction to IMDG codes	https://law.resource.org/pub/us/cfr/ibr/004/imo.imdg.1.
		<u>2006.pdf</u>
3	Safe use and storage of	https://www.safework.nsw.gov.au/ data/assets/pdf file
	chemicals (including pesticides	/0004/52870/Safe-use-and-storage-of-chemicals-
	and herbicides) in agriculture	including-

2B. TOPICS FOR SELF STUDY

2C. REFERENCE BOOKS:

R.K. Bali- Air regulation

DGCA CAR, SECTION 11 – SAFE TRANSPORT OF DANGEROUS GOODS, SERIES 'C' PART I, ISSUE III

The International Air Transport Association (IATA)- Annex 18

UNIT	COURSE CONTENTS	LEARNING OUTCOMES	TAXONOMY
			LEVEL
Ι	CARRI	AGE OF DANGEROUS GOODS	
1.1	ICAO requirements	Explain the basic requirements of	K2
		ICAO to be fulfilled	
1.2	Government of India	Explain the requirements which are	K2
	requirements	laid down by govt. of India	

1.3	Aircraft act 1934	Develop knowledge about rules over	K3
		rules over aircraft operations &	
		operators	
1.4	The aircraft rule 2003	Rules to be followed in or over India	K5
		to carry dangerous goods	
II	DANG	EROUS GOODS DEFINITIONS	
2.1.0	Definition of dangerous	Explain the dangerous goods and its	K2
2.1.0	goods	properties	
2.1.1	Dangerous goods	Distinguish eacg dangerous goods	K4
2.1.1	cateogories	by the nature of them	
III	CLASSIFI	CATION OF DANGEROUS GOODS	
3.1.0	Name of the class	Devide substance based on	K4
3.1.0		predominate hazard presented	
3.1.1	Division	Classify each class into several	K4
3.1.1		subdivision	
3.1.2	Identification	Identify the dangerous goods	K3
	Packing	Choose which group of packing is	K1
3.1.3		required according to the class of	
		dangerous goods	
	Marking & labelling	Develop skill about the different	K6
3.1.4		marks & labels used for hazardous	
		materialwhile packing	
IV	HAND	LING OF DANGEROUS GOODS	
4.1	Preloading inspections	Analyse the loading area safe or not	K4
	Loading requirements	Select appropriate loading methods	K3
	(loading of mangnetized	in handling dangerous goods	
	material, CO2, live		
	animals, of expandable		
	polymeric beads –		
4.2	Loading of wheel chairs		
4.2	and other battery		
	powered mobility aids –		
	non-spillable batteries,		
	organic peroxides and		
	self- reactive substances,		
	radioactive material)		
V	AIRCRAFT	EMERGENCY RESPONSE DRILLS	
5.1.0	Emergency response drill	Define emergency drill	K1

5.1.1	Drill letter table	Identify the dangerous goods hazrd	К3
5.1.1		in cargo section by drill letter	
510	Numeric list of dangerous	Select appropriate code from the list	K4
5.1.2	goods with drill codes		

		PROGRAMME OUTCOMES								PROGRAMME SPECIFIC OUTCOMES			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	Н	L	М	М	М	-	М	М	М	М	М	М	М
CO2	М	Н	-	М	L	L	Н	Н	Н	L	Н	Н	Н
CO3	М	L	Н	Н	Н	Н	Н	М	М	L	-	L	Н
CO4	L	М	Н	Н	Н	Н	М	М	М	-	М	Н	М
C05	М	М	Н	Н	-	L	М	М	М	-	L	М	М
CO6	М	М	Н	Н	Н	М	Н	L	М	М	М	Н	Н

5. COURSE ASSESSMENT METHODS

Direct

- 1. Continuous Assessment Test I,II
- 2. Open book test; Assignment; Seminar; Journal paper review, Group Presentation
- 3. End Semester Examination

Indirect

Elective III: INVESTMENT MANAGEMENT SEMESTER-V CODE: U22AG5:A CREDITS: 5 TOTAL HOURS: 75 HOURS/WEEK: 5

1. COURSE OUTCOMES:

On completion of this course, the student will be able to,

S. No	Course Outcomes	Level	Unit Covered
1	Identify various types of Investment sectors and schemes available for individuals	K2	Ι
2	Illustrate the process involved in investing in various investment avenues	K4	II
3	Demonstrate the features and functions of primary and secondary market.	K2	IV
4	Classify the various types of mutual funds available to the investors	K1	III
5	Make use of the concept of portfolio risk and return for suggesting suitable investment alternatives.	К3	IV
6	Explain the SEBI regulations on Stock Exchanges in India.	K2	V

2A. SYLLABUS

UNIT-I CONCEPT OF INVESTMENT

Nature of investment, Definition, Need for Investment, Importance of studying Investment, Scope for Investment, Investment Media, Marketable securities, Non – Marketable securities

UNIT-II INVESTMENT AVENUES

Investment Alternatives, Organizing Financial Assets, Non – Marketable Financial Assets, Bank Deposits, Post Office Schemes, Government Savings Bonds, Public Provident Fund, Employees Provident Fund, Money Market Securities, Bonds or Debentures, Equity Shares, Mutual Fund Schemes, Financial Derivatives, Real Assets

15 Hours Ig Investm

UNIT-III INVESTMENT COMPANIES AND INDIRECT INVESTMENT 15 Hours

Indirect Investing, Investment Company, Types of Investment Companies, Major types of Mutual Funds, Entities of Mutual Fund, Open – Ended Schemes, Close – Ended Schemes, Investing Internationally through Investment Companies, Benefits & Risk of Global Investing, Where to Invest, How to Invest

UNIT-IV CAPITAL MARKET

15 Hours

Securities Market, Participants in Securities Market, Primary Market, Types of Primary Market, Features of Primary Market, Functions of Primary Market, Advantages of Primary Market, Disadvantages of Primary Market, Secondary Market, Types of Secondary Market, Features of Secondary Market, Functions of Secondary Market, Advantages of Secondary Market, Disadvantages of Secondary Market, Difference between Primary & Secondary Market, Portfolio Theory, Definition, Diversification, Portfolio Return and Risk

UNIT-V STOCK EXCHANGE AND TYPES OF STOCK 15 Hours

Stock Exchange, Definition, Functions of Stock Exchange, Membership in Stock Exchange, Services of Stock Exchange, SEBI Regulations for Stock Exchange, Common Stocks, Analysis of Common Stock, Strategy of Common Stock, Mock Trading

S. No	Topics	Web Links
1	Securities Analysis	https://www.wallstreetmojo.com/security-analysis/
2	Portfolio Management	https://www.managementstudyguide.com/portfolioma nagement.htm
3	Speculation	https://www.investopedia.com/terms/s/speculation.asp
4	Hedging	https://www.karvyonline.com/knowledge- center/beginner/what-is-hedging-in-stock-market

2B. TOPICS FOR SELF STUDY

2C. TEXT BOOKS:

1. V. Gangadhar, G. Rameshbabu, 2007, Investment Management, Anmol Publication,.

2. Punithivathi Pandian, 2012, Security Analysis and Portfolio Management, Second Edition, Vikas Publishing,

2D. REFERENCE BOOKS:

1. Charles P. Jones, 2014, Investments Analysis and Management, 11th Edition.

2. Dr. L. Natarajan, 2000, Investment Management, Margham Publications 10th Edition.

UNIT	COURSE CONTENTS	Learning Outcomes	TAXONOMY LEVEL			
Ι	(
1.1.0	Nature of investment	K1				
1.1.1 & 1.1.2	Definition Need for Investment	Explain the need for investment	К2			
1.1.3	Importance of studying Investment	Demonstrate the importance of studying investment	К2			
1.1.4	Scope for Investment	Explain the areas of applicability of investment concepts	К3			
1.1.5	Investment Media	Classify the various investment alternatives available for investors	K1			
1.1.6	Marketable securities	Illustrate the types of marketable securities	K1			
1.1.7	Non – Marketable securities	Explain various types of non marketable securities	K2			
II		INVESTMENT AVENUES				
2.1.0 & 2.2.0	Organizing Financial Assets Non – Marketable Financial Assets	Organize various types of financial assets	K3			
2.3.1	Bank Deposits	Compare the savings account and current account schemes in banks				
2.3.2	Post Office Schemes	Analyze the interest rate and features of post office schemes with other investment avenues	K4			

2.3.3	Government Savings Bonds	Choose the appropriate savings bonds according to tenure of investment and expected returns	K2	
2.3.4	Public Provident Fund, Employees Provident Fund	Identify the loan options available in EPF and PPF accounts	K2	
2.4.0	Money Market Securities	Illustrate the types of money market instruments	К2	
2.4.1	Bonds or Debentures	Explain the advantages and disadvantages of investing in bonds	К2	
2.4.2	Equity Shares	Demonstrate the working of equity share market in India	K2	
2.4.3	Mutual Fund Schemes	Classify the types of mutual fund schemes available to the investors	К2	
2.4.4	Financial Derivatives	Show the types of financial derivatives in India	K1	
2.4.5	Real Assets	Demonstrate the benefits and limitations associated with the real asset investments	К3	
III	INVESTMENT C	OMPANIES AND INDIRECT INVEST	ſMENT	
3.1.0	Indirect Investing	Explain the process of indirect investing	K2	
3.2.0	Investment Company	Recall the concept of investment company	K1	
3.3.0	Types of Investment Demonstrate the working of different Companies Investment companies			

3.4.0	Major types of Mutual	Build a mutual fund portfolio for an individual according to the risk taking ability	К5
	Funds		
3.4.1	Entities of Mutual Fund	Explain the duties of the entities in mutual fund	K2
3.4.2 &	Open – Ended	Compare the features of open ended	
3.4.3	Schemes, Close – Ended Schemes	and close ended mutual fund schemes	
			K3
		Demonstrate the benefits of investing	
3.5.0	Investing Internationally	internationally through investment	К3
	through Investment Companies	companies	no
2 5 1		Explain the process of global	
3.5.1	Benefits & Risk of Global Investing	investing	K2
3.5.2 &		Analyze the available global	
3.5.3	Where to Invest and How to Invest	investment options for investors	K4
IV		CAPITAL MARKET	
410	Securities Market,	Classify the participants in securities	
4.1.0	Participants in Securities Market	market	K2
	Primary Market, Types,	Identify the functions of primary	
4.2.0	Features and Functions	market	K2
	of primary market		112
1.5.1	Advantages and	Compare primary market functions	
4.2.1	Disadvantages of Primary Market	with secondary market functions	К2
		Demonstrate the working of	
4.3.0	Secondary Market	secondary market	К3

4.3.1	Types, Features and Functions of secondary market	Make use of the concept of secondary market and plan an investment for an individual	К2
4.3.2	Advantages and Disadvantages of secondary Market	Analyze the advantages and disadvantages of secondary market	К3
4.4.0	Difference between Primary & Secondary Market	Compare primary market functions with secondary market functions	К3
4.5.0	Definition, Diversification	Illustrate the necessity of diversification	К2
4.5.1	Portfolio Return and Risk	Demonstrate the return and risk involved in portfolio	К3
V	STOCK E	EXCHANGE AND TYPES OF STOCK	
5.1.0 & 5.2.0	Definition, Functions of Stock Exchange	Explain the functions of stock exchange	K2
5.3.0	Membership in Stock Exchange	Explain the duties of the members in stock exchanges	К2
5.4.0	Services of Stock Exchange	Demonstrate the services available for the brokers of stock exchanges	К3
5.4.1	SEBI Regulations for Stock Exchange	Illustrate the regulations for Stock exchanges	К2
5.5.0	Common Stocks	Recall the concept of common stocks	K1

5.5.1	Analysis of Common Stock	Make use of the common stock to build a portfolio of investors	К3
5.5.2	Strategy of Common Stock	Analyse the available common stocks and plan a profitable portfolio	К3

	PROGRAMME OUTCOMES							PROGRAMME SPECIFIC OUTCOMES					
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	н	н	н	М	М	L	М	М	L	Н	М	Н	М
CO2	н	н	м	М	L	М	н	Н	М	н	Н	М	М
CO3	М	Н	M	M	L	М	М	М	L	Н	М	Н	М
CO4	Н	Н	М	Н	М	Н	Н	М	L	М	Н	Н	Н
CO5	Н	М	Н	Н	L	Н	М	Н	L	Н	М	Н	Н
CO6	н	Н	М	М	М	L	н	н	М	н	М	н	Н

5. COURSE ASSESSMENT METHODS

Direct

1.	Continuous	Assessment	Test I,II
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- 2. Open book test; Assignment; Seminar; Journal paper review, Group Presentation
- 3. End Semester Examination

Indirect

ELECTIVE III: PROJECT MANAGEMENT

SEMESTER: V

CODE: U22AG5:B

CREDITS: 5

TOTAL HOURS: 75

HOURS/WEEK: 5

1. COURSE OUTCOMES :

On completion of this course, the student will be able to,

S. No	Course Outcomes	Level	Unit Covered
1	Understand project characteristics and various stages of a project.	K2	Ι
2	Understand the various project techniques & skills required for project managers.	K2	II
3	Apply the risk management plan and analyze the role of stakeholders.	К3	IV
4	Analyze and understand the techniques of Project planning, scheduling and Execution Control.	K4	IV
5	Understand the contract management, Project Procurement, Service level Agreements and productivity.	K2	V
6	Elaborate the conceptual clarity about project organization, feasibility analysis & closing of a project	K6	III

2A. SYLLABUS

UNIT-I INTRODUCTION

Introduction: Principles of project management, Project management life cycle, Quality management, Relationship between project management and other methodologies.

UNIT-II PROJECT TECHNIQUES

Project Techniques: Defining projects, Rules for managing projects, Competencies and skills for project managers, Job functions and tasks for project management, Techniques of project.

15 Hours

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UNIT-III PROJECT ACTIVITIES

Project Activities: Identify project activities, Estimate activity duration, Resource requirement and cost organize, Conduct the joint project planning session.

UNIT-IV RISK MANAGEMENT

Risk management: Risk management within a project-based approach, Gantt project planning charts, critical path method.

UNIT-V IMPLEMENTATION

Implementation: Recruit, organize and manage project team, monitoring and controlling, Steps in closing project.

Web Links

-stress-management.htm

2B. TOPICS FOR SELF STUDY

Management of Time & Stress

Organizing & Staffing the

Project office & Team

Topics

S. No

1

2

		organizing-and-staffing-the-project-office-and-team
3	The variables for Project	https://learning.hccs.edu/faculty/robert.frederick/bmgt
	success	1021/power-point-slides-chapters-7-10/chapter-9-the-
		variables-for-success

2C. TEXT BOOK:

1. Robert Wysocki, Robert beck Jr, David b. crane -Effective project management-Wiley Publication7th Edition 2013.

2D. REFERENCE BOOKS:

- 1. D. Vanwell Stam, f. Lindenaar.S Vankinderen -Project risk management-,Kogan Page Ltd. 2004.
- 2. Martink. Starr -Production and operation management John Wiley & Sons Publishers 1996.
- 3. CLEMENTS/GIDO -Effective project management- Cengage Learning 2012.

15 Hours

15 Hours

https://managementhelp.org/personalproductivity/time

https://learning.hccs.edu/faculty/robert.frederick/bmgt

1021-1/power-point-slides-chapters-1-6/chapter-4-

UNIT	COURSE CONTENTS	LEARNING	TAXONOMY				
		OUTCOMES	LEVEL				
Ι	INTRODUCTION						
1.1.0	Introduction	Define Project	K1				
		Management.					
1.1.1	Principles of project management	Outline the principles of project management	K2				
1.1.2	Project management life cycle	Illustrate the project management life cycle.	K2				
1.1.3	Quality management	Relate quality management with projects.	K1				
1.1.4	Relationship between project	Analyze the relationship	K4				
	management and other	between project					
	methodologies	management and other					
		methodologies.					
II	PROJE	CT TECHNIQUES					
210	Project Techniques	Classify the different	K2				
2.1.0		project techniques.					
2.1.1	Defining projects	Define a project.	K1				
2.1.2	Rules for managing projects	Assess the rules for	K5				
2.1.2		managing projects.					
	Competencies and skills for	Determine the	K5				
2.1.3	project managers	competencies & skills					
2.1.3		required for a project					
		manager.					
	Job functions and tasks for project	Identify the functions &	К3				
2.1.4	management	tasks involved in project					
		management.					
	Techniques of project	Analyze the different	K4				
2.1.5		techniques that could be					
		applied in projects.					
III	PROJE	ECT ACTIVITIES					
Project Activities		Summarize the different	K2				
3.1.0		activities of a project.					
3.1.1	Identify project activities	Identify the various	К3				

		activities involved in a	
		project.	
	Estimate activity duration	Estimate the amount of	K5
3.1.2		time taken to complete an	
		activity.	
	Resource requirement and cost	Analyse the requirement of	K4
3.1.3	organize	resources & estimation of	
		cost.	
	Conduct the joint project planning	Examine the conduct of	K4
3.1.4	session	joint project planning.	
IV	DISK	MANAGEMENT	
	KISK		
4.1.0	Risk management	Infer the risk management.	K2
4.1.0			
	Risk management within a project-	Analyze the risks involved	K4
4.1.1	based approach	in a project & to explain	
7.1.1		the management of such	
		risks.	
	Gantt project planning charts	Illustrate Gantt project	K2
4.1.2		planning charts.	
	Critical path method	Demonstrate the Critical	K2
4.1.3		path method.	
V	IMPL	EMENTATION	
			774
510		Examine the	K4
5.1.0	Implementation	implementation of a	
		project.	T7=
	Recruit, organize and manage	Assess the crucial	K5
5.1.1	project team, monitoring and	activities of a project.	
	controlling		
	Steps in closing project	Explain the store involved	K2
5.1.2		Explain the steps involved in closing a project.	N2
		in closing a project.	

	PROGRAMME OUTCOMES						PRO	GRAMM OUTC	IE SPEC OMES	CIFIC			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	Н	Н	М	Н	М	н	-	L	М	М	Н	Н	L
CO2	M	L	Н	М	Н	н	М	М	L	н	М	Н	-
CO3	М	Н	-	-	М	Н	М	L	Н	Н	Н	Μ	Н
CO4	Н	-	Н	М	М	L	Н	Н	М	Н	М	-	М
CO5	-	М	Н	L	-	М	Н	-	Н	М	-	Н	М
CO6	Н	Н	Н	М	Н	-	L	Н	-	-	L	М	L

5. COURSE ASSESSMENT METHODS

Direct

- 1. Continuous Assessment Test I,II
- 2. Open book test; Assignment; Seminar; Journal paper review, Group Presentation
- 3. End Semester Examination

Indirect

Elective III: RETAIL MANAGEMENT

SEMESTER- V CREDITS: 5 HOURS/WEEK: 5

CODE: U22AG5:C TOTAL HOURS: 75

1. COURSE OUTCOMES :

On completion of this course, the student will be able to,

S.	Course Outcomes	Level	Unit Covered
No			
1	Identify the importance of Retail Industry	K3	Ι
2	Demonstrate the importance of retailing mix	K2	II
3	Make use of the marketing concepts in different formats of retailing structures	К3	III
4	Apply the concept of customer buying behaviour in retail industry	К3	IV
5	Illustrate the use of private labels in retailing	K2	III
6	Analyse the customer traffic flows and patterns in the retail store	К5	V

2A. SYLLABUS

UNIT-I INTRODUCTION

An introduction to the retailing system, Evolution of retailing, Emerging trends in retailing.

UNIT-II RETAILING MIX

Retailing mix, Social forces, Economic forces, Technological forces, Competitive forces.

UNIT-III RETAILING STRUCTURE

Retailing definition, Structure, Different formats, Marketing concepts in retailing

UNIT-IV CONSUMER BUYING BEHAVIOUR

Consumer purchase behaviour, Cultural and social group influence on consumer purchase behaviour, Private labels in retail branding.

15 Hours

15 Hours

15 Hours

15 Hours

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UNIT-V STORE LOCATION & MANAGEMENT

15 Hours

Retail store location, Traffic flow and analysis, Population and its mobility, Exteriors and layout Customer traffic flows and pattern, Creative display.

2B. TOPICS FOR SELF STUDY

S. No	Topics	Web Links
1	Retail store design and layout	https://www.smartsheet.com/store-layout
2	E-tailing	http://tips.thinkrupee.com/articles/what-is-e- tailing.php
3	FDI in Indian Retail sector	https://www.jagranjosh.com/general- knowledge/foreign-direct-investment-in-retail-sector- in-india-1448884097- 1#:~:text=FDI%20is%20not%20permitted%20in%20 Multi%20Brand%20Retailing%20in%20India%20yet. &text=It%20is%20an%20easiest%20way,the%20For eign%20Exchange%20Management%20Act.

2C. TEXT BOOK:

1. LEVI &WEITZ -RETAIL MANAGEMENT- The McGraw Hill ,9th Edition ,2014.

2D. REFERENCE BOOKS:

- 1. GEORGE H LUCAS, ROBERT P BUSH, LARRY G GRESHAM Retailing –All India publishers & distributors, Chennai 8 4. 1994.
- 2. Chetan Bajaj and RajnishTuli -Retail Management -, OXFORD 2010.
- 3.Swapna Pradhan Retailing Management The McGraw Hill Companies. 2012
- 4.Lamba -Retailing Tata Mcgraw Hill.,2002.

UNIT	COURSE CONTENTS	LEARNING OUTCOMES	TAXONOMY LEVEL
Ι		INTRODUCTION	
1.1.0	An introduction to the retailing system	Define Retail Management	K1
1.1.1	Evolution of retailing	Illustrate the evolution of retail over the time	K2
1.1.2	Emerging trends in	Explain the recent trends in retailing	K2

	retailing		
II		RETAILING MIX	
2.1.0	Retailing mix	Illustrate the applications of retailing mix	K2
2.1.1	Social forces	Explain the impact of social factors in retailing	K2
2.1.2	Economic forces	Explain the impact of Economic factors in retailing	K2
2.1.3	Technological forces	Explain the impact of Technological factors in retailing	K3
2.2.0	Competitive forces.	Explain the impact of Competitive factors in retailing	К3
III		RETAILING STRUCTURE	
3.1.0	Retailing definition	Define the concept of retailing.	K3
3.1.1	Structure	Analyse the importance of structure in retailing	K4
3.1.2	Different formats	Explain the different formats in retailing	K4
3.1.3	Marketing concepts in retailing	Demonstrate the marketing concepts in retailing.	K2
IV	CO	NSUMER BUYING BEHAVIOUR	
4.1.0	Consumer purchase behaviour	Demonstrate the purchase behaviour in retailing	K2
4.1.1	Cultural and social group influence on consumer purchase behaviour	Examine the influence of cultural and social factors in changes on purchase behaviour	K4
4.1.2	Private labels in retail branding	Demonstrate the usage of private labels in retailing branding	K2
V	STO	RE LOCATION & MANAGEMENT	
5.1.0	Retail store location	Explain the process selection of a store location	K2
5.1.1	Traffic flow and analysis	Demonstrate the Traffic flow and analysis	K2

5.1.2	Population and its	Explain the importance of population	K2
5.1.2	mobility	study	
5.1.3.	Exteriors and layout	Explain the importance of Exteriors	K2
		and layout	
	Customer traffic flows	Explain the Customer traffic flows	K2
5.1.4	and pattern	and pattern	
5.1.4			
5.1.5	Creative display	Explain the importance of Creative	K2
		display	

										PROGRAMME SPECIFIC			
		PROGRAMME OUTCOMES									OUT	COMES	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	Н	L	М	М	М	-	М	М	М	М	М	М	М
CO2	М	Н	-	М	L	L	н	н	н	L	Н	Н	Н
СО3	М	L	Н	Н	Н	Н	Н	М	М	L	-	L	Н
CO4	L	М	Н	Н	Н	Н	M	Μ	Μ	-	М	Н	М
CO5	М	М	Н	Н	-	L	М	М	М	-	L	М	М
CO6	М	М	Н	Н	Н	М	н	L	М	М	М	Н	Н

5. COURSE ASSESSMENT METHODS

Direct
1. Continuous Assessment Test I,II
2. Open book test; Assignment; Seminar; Journal paper review, Group
Presentation
3. End Semester Examination
Indirect
1. Course-end survey

SBEC III: INTERVIEW SKILLS

SEMESTER: V CREDITS: 2 HOURS/WEEK: 2

CODE: U20AG5S3 TOTAL HOURS: 30

1. COURSE OUTCOMES :

On completion of this course, the student will be able to,

S.	Course Outcomes	Level	Unit Covered
No			
1	Construct bio-data.	K3	Ι
2	Explain the basics of the Interview Process	K2	II
3	Develop the modern methods of interview processes	K3	III
4	Contrast various types of interviews and its objectives	K2	IV
5	Compare the modern techniques of interview with ancient methods	K2	V
6	Build the essential requirements for preparing of interview	K3	V

2A. SYLLABUS

UNIT-I INTRODUCTION TO INTERVIEW

Introduction, Interviews, concept of mutuality, Getting update with current affairs, How to prepare CV, Preparation before interview.

UNIT-II GROOMING

Grooming, Grooming for interview, Tips to make interview successful, Mock Interviews

UNIT-III INTERVIEWSKILLS

Interview – skills, Analysing behaviour, Listening skills, Presentation skills, Levels of interviewing, Pre-and post-interview behaviour.

UNIT-IV TYPES OF INTERVIEW

Interview types, Selection, Negotiating interview, Counselling interview, Stress interview, Appraisal interview, Exit interview

6 Hours

6 Hours

6 Hours

UNIT-V MODERN METHODS

Tele - communication interview, Latest methods of interview, Video conferencing.

2B. TOPICS FOR SELF STUDY

S. No	Topics	Web Links
1	Techniques and tactics to prior	https://www.helpguide.org/articles/work/interviewing
	to interview	-techniques-and-tips.htm
2	Strategy for negotiating salary	https://hbr.org/2014/04/15-rules-for-negotiating-a-
	issues	job-offer
		https://www.themuse.com/advice/how-to-negotiate-
		salary-37-tips-you-need-to-know
3	Perspective of a hiring manager	https://www.greenhouse.io/blog/a-hiring-managers-
		perspective-synergizing-with-recruiters
4	Effective communication	https://www.thebalancecareers.com/communication-
		interview-questions-and-best-answers-2061251

2C. TEXT BOOKS:

1. Sudhir Andrews -How to succeed at Interview. - Tata McGraw Hill, 2008.

2D. REFERENCE BOOKS:

1. Bills Scott -Skills for communicating - Guwer Publication, 1986.

UNIT	COURSE CONTENTS	LEARNING OUTCOMES	TAXONOMY
			LEVEL
Ι		INTRODUCTION	
1.1.1	Meaning of interview	Define and illustrate the meaning of	K1
		interviews	
1.1.2	Purpose of Interview	Explain the purpose of Interview	K2
1.1.3	Concept of Mutuality	Demonstrate the Mutuality	K2
		concept	
1.1.4	Preparation of CV	Construct CV	K3
1.1.5	CV and Resume	Contrast the terms CV and	K3
		Resume	
1.1.6	Preparation before interview	Summarize the preparation before	K4

		interview		
II	PU	JRPOSE OF INTERVIEW		
2.1.1	Meaning of Grooming	Recall the meaning of grooming	K1	
		while interview		
2.1.2	Importance of grooming	Demonstrate the importance of	K2	
		grooming while interview		
2.1.3	Personal hygiene	Show the need of personal hygiene	K2	
2.1.4	Dress code	Classify the dress codes for	K2	
		interview		
2.2.1	Success in Interview	Develop the methods for the	K3	
		success in interview		
2.3.1	Mock Interviews	Take part of mock interview for	K3	
		practice		
III		INTERVIEW SKILLS		
3.1.1	Interview skills-Importance	Recall the importance of interview	K1	
		skills		
3.1.2	Analysis of behaviour	Discover different types of	K3	
		behavior		
3.1.3	Listening skills	Examine listening skills for an	K3	
		interview		
3.1.4	Presentation skills	Inspect presentation skills	K3	
3.2.1	Levels of Interviewing	Classify different levels of	K2	
		interviewing		
3.3.1	Pre and post interview	Build behavior for pre and post	K4	
	behavior	interview		
IV]	ΓYPES OF INTERVIEW		
4.1.1	Types of interview	List the different types of	K2	
		interview		
4.2.1	Selection	Explain the process of selection	K2	
4.3.1	Negotiating interview	Illustrate the importance of	K2	
		Negotiating interview		
4.3.2	Counseling interview	Examine the need of Counseling	K3	
		interview		
4.3.3	Stress interview	Test for stress interview in the	K3	
		firm		
4.3.4	Appraisal interview	Select method of appraisal	K3	
		interview		
4.3.5	Exit interview	Utilize exit interview for	K4	

		future							
V	MODER	MODERN METHODS OF INTERVIEW							
5.1.1	Modern methods	K2							
		interview							
5.2.1	Emergence of modern	Explain the modern methods of	K2						
	methods of interview	interview							
5.3.1	Tele-communication	Discover the advantages of tele-	K3						
	interview	communication interview							
5.3.2	Latest methods of interview	Apply innovative methods for an	K3						
		effective interview							

										PF	ROGRAM	ME SPEC	IFIC
		PROGRAMME OUTCOMES									OUT	COMES	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	Н	М	Н	М	Н	Μ	М	М	М	М	Μ	М	М
CO2	М	L	Н	М	М	Н	М	н	М	М	Н	М	н
CO3	M	M	Н	М	Н	Н	М	м	н	L	М	Н	м
CO 4	M	н	М	М	Н	Н	М	н	М	М	L	н	м
CO5	М	М	н	Н	М	L	Н	М	М	М	Н	М	М
CO6	М	Н	М	Н	Н	М	н	L	М	М	М	Н	Н

5. COURSE ASSESSMENT METHODS

Direct

- 1. Continuous Assessment Test I,II
- 2. Open book test; Assignment; Seminar; Journal paper review, Group Presentation
- **3. End Semester Examination**

Indirect

SEMESTER VI

S.No	Course Title	Course Code
1.	Strategic Management	U20AG609
2.	Research Methodology & Introduction to Statistical Packages (Theory and Practical)	U20AGP10
3.	Passenger Facilitation	U21AG611
4.	Ramp Service Management	U21AG612
5.	Internship	U20AG6F1
6.	Gender Studies	U16GST61

Core IX: STRATEGICMANAGEMENT

SEMESTER: VI

CODE: U20AG609

CREDITS: 5

TOTAL HOURS: 75

15 Hours

15 Hours

HOURS/WEEK: 6

1. COURSE OUTCOMES :

On Completion of this course, the student will be able to,

S. No	Course Outcomes	Level	Unit Covered
1	Examine the formulation of strategy methods in an organization.	K4	Ι
2	Understand the Environmental & Industry Analysis in an organization in a practical manner.	K2	II
3	Prefer the Porter's five force model in various organizations dimensions.	K5	II
4	Contrast the Organizational Competence and Resource Analysis decision in a structural way.	K5	III
5	Analyse the Social responsibilities of management in an organization.	K4	IV
6	Realize the Strategies of Leading Indian Companies and its best practices.	K5	V

2A. SYLLABUS

UNIT-I INTRODUCTION TO STRATEGY

Introduction to Strategy-Total organizational view - The concept of strategy policy - Planning hierarchies - Evolution strategy - Philosophy of strategy - Formulation of the Strategy

UNIT-II ENVIRONMENTAL & INDUSTRY ANALYSIS

Environmental & Industry Analysis - SWOT Analysis - Environmental analysis - Industry analysis - Porter's five force model

UNIT-III ORGANIZATIONAL COMPETENCE AND RESOURCE ANALYSIS 15 Hours

Organizational Competence and Resource Analysis - Organizational competence and resource analysis - Matching opportunities and resources strategy -Values - Social responsibilities of management - Social audit

UNIT-IV TYPES OF STRATEGIES

15 Hours

15 Hours

Types of Strategies -Generic Strategies - Grand Strategies - Strategies of Leading Indian Companies

UNIT-V STRATEGY IMPLEMENTATION

Strategy Implementation -Implementing the Strategy -Organization design and structure relationships -Processes and leadership -Performance standards - corrective action.

2B. TOPICS FOR SELF STUDY

S. No	Topics	Web Links
1	Corporate Governance In Strategic Management	https://bizfluent.com/info-7959976-corporate- governance-strategic-management.html
2	Core Competencies In Strategic Management	https://www.bain.com/insights/management-tools-core- competencies/
3	Gap Analysis In Strategic Management	https://expertprogrammanagement.com/2017/09/gap- analysis/

2C. TEXT BOOK:

1. L.M. Prasad-Business Policy –Sultan Chand, 2015.

2D. REFERENCE BOOKS:

1. Azar Kassmi-Business Policy - Tata McGraw Hill 3rd Edition, 2008.

UNIT	COURSE CONTENTS	NTENTS LEARNING OUTCOMES							
Ι	INTRODUCTION								
1.1.0	Introduction to Strategy	Define strategy and concepts	K1						
1.1.1	Total organizational view	Analyse the organization	K4						

1.1.2	The concept of strategy policy	Explain the concept of strategies and their various policies	К2			
1.1.3	Planning hierarchies	Build organizational hierarchies	K6			
1.1.4	Evolution strategy	Analyse the evolution of strategy	K4			
1.1.5	Philosophy of strategy	Philosophy of strategy Defining the philosophy of strategy towards management				
1.1.6	Formulation of the Strategy	Formulate the strategies for business purpose	К6			
II	ENVIRONMENTAI	L & INDUSTRY ANALYS	IS			
2.1.0	Environmental & Industry Analysis	List out the analysis part	K1			
2.1.1	SWOT Analysis	Illustrate the strength weakness opportunities and threats	К2			
2.1.2	Environmental analysis	Classify the environment analysis	К2			
2.1.3	Industry analysis	Classify the industry analysis	K2			
2.1.4	Porter's five force model	Formulate the examples of this particular model	K6			
III	ORGANIZATIONAL COMPE	TENCE AND RESOURC	E ANALYSIS			
3.1.0	Organizational Competence and Resource Analysis	Find out the organizational competence level	K1			
3.1.1	Matching opportunities and resources strategy	Match the resources and their opportunities	K1			
3.1.2	Values	Defining the values	K1			
3.1.3	Social responsibilities of management	List out the social K1 responsibilities				
L	1	1				

3.1.4	Social audit	K5							
IV	TYPES OF STRATEGIES								
4.1.0	Types of Strategies	List out the different kinds of strategy	K1						
4.1.1	Generic Strategies	Define the generic strategy	K1						
4.1.2	Grand Strategies	Define the grand strategy	K1						
4.1.3	Strategies of Leading Indian Companies	K1							
V	STRATEGY	IMPLEMENTATION							
5.1.0	Strategy Implementation	Define the strategy implementation	K1						
5.1.1	Implementing the Strategy.	Demonstrate the strategy	K2						
5.1.2	Organization design and structure relationships	Build an organisation and their structure	K3						
5.1.3	Processes and leadership	Define the process and leadership	K1						
5.1.4	Performance standards – corrective action	Define the performance standard	K1						

	PROGRAMME OUTCOMES							PF		ME SPECI COMES	IFIC		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
C01	М	Н	М	Н	Н	М	М	М	Н	М	L	М	L
CO2	Н	М	Н	Н	М	Н	Н	М	Н	L	-	L	Н
CO3	Н	М	Н	М	L	L	М	Н	-	М	М	М	М
CO4	М	М	М	М	L	М	L	Н	L	-	L	Н	L
C05	Н	-	Н	М	L	М	-	М	L	Н	-	Н	Н
CO6	-	М	М	Н	-	М	L	L	М	-	L	Н	L

5. COURSE ASSESSMENT METHODS

Direct

- 1. Continuous Assessment Test I,II
- 2. Open book test; Assignment; Seminar; Journal paper review, Group Presentation
- 3. End Semester Examination

Indirect

Core X: RESEARCH METHODOLOGY & INTRODUCTION TO STATISTICAL PACKAGES (Theory & Practical)

SEMESTER: V

CODE: U20AGP10

CREDITS: 5

TOTAL HOURS: 75

HOURS/WEEK: 5

1. COURSE OUTCOMES :

On completion of this course, the student will be able to,

S. No	Course Outcomes	Level	Unit Covered
1	Explain the basic nature and purpose of Research and its advantages to business	K2	Ι
2	Identify a research problem and carry out research	K2	Ι
3	Apply an understanding of business research design	K3	II
4	Identify and use the most appropriate statistical analysis technique for a given problem situation and interpret the results from the same.	K2	Ш
5	Develop instruments for collecting Data	K3	II
6	Compile an excellent research report	K6	V

2A. SYLLABUS

UNIT-I CONCEPTS OF RESEARCH AND DESIGN 15 Hours

Research – Definition - Meaning-Characteristics-Research process-Research need-Formulating the problem-Sampling-Pilot-testing-Data collection-Research design-

UNIT-II SCALING TECHNIQUES

Measurement-Nature-Scales-Scaling nature – Methods-Sampling – Nature – Simple probability- Complex probability-

UNIT-III DATA ANALYSIS

Sources of collection of data-Primary sources-Secondary sources-Survey observation-Experimentation – Coding-Data-entry-Tabulation-Cross tabulation-

UNIT-IV INTRODUCTION TO SPSS

Hypothesis-Meaning-Types-Statistical testing-Chi-square -SPSS procedures-Application -Practical-

UNIT-V REPORT WRITING

Presenting Results-Written-Oral reports - Introduction to Plagiarism software - Research Ethics.

15 Hours

15 Hours

15 Hours

2B. TOPICS FOR SELF STUDY

S. No	Topics	Web Links
1	Correlation Analysis	https://research-methodology.net/research- methods/quantitative-research/correlation-regression/
2	Regression Analysis	https://research-methodology.net/research- methods/quantitative-research/regression-analysis/
3	Factor Analysis	https://stats.idre.ucla.edu/spss/seminars/introduction-to-factor- analysis/a-practical-introduction-to-factor-analysis/

2C. TEXT BOOK

1. Saravanavel, Research Methodology –Sultan Chand publications, 10th Edition2013

2. Research Methodology-Ravilochani (Margham Publication)

2D. REFERENCE BOOKS

1. CR KOTHARI, Research Methodology - New Age International, second edition2004

2. EMORY AND COOPER, Business Research Methods - McGraw-Hill, $10^{\rm th}$ edition. 2008

UNIT	COURSE CONTENTS	LEARNING OUTCOMES	TAXONOMY LEVEL
Ι	CONCEPTS OF	[
1.1.0	.1.0 Research Demonstrate the presearch		K2
1.1.1	Definition	Define research	K1
1.1.2	Meaning	Outline the meaning of research	K2
1.1.3	Characteristics	Show the characteristics of research	K1
1.2.0	Research process	Explain the research process	К2
1.2.1	Research need	Summarize the research need	K2

1.2.2	Formulating the problem	Apply the research in formulating the problem	К3
1.2.3	Sampling	Build sampling data from the data points	К3
1.2.4	Pilot-testing	Apply Pilot-testing	K3
1.2.5	Data collection	Build data collection models	K3
1.2.6	Research design	Build or Choose the research design models	K6
II	SCA	LING TECHNIQUES	
2.1.0	Measurement	Illustrate and apply measurements in research	K2,K3
2.1.1	Nature	Outline the meaning of nature	K2
2.1.2	Scales	Illustrate and apply scales in research	K2,K3
2.1.3	Scaling nature	Develop models in applying scales to nature	К3
2.1.4	Methods	Identify the required methods of scaling	К3
2.2.0	Sampling	Build sampling data from the data points	K3
2.2.1	Nature	Outline the meaning of nature	K2
2.2.2	Simple probability	Apply Simple probability	K3
2.2.3	Complex probability	Apply Complex probability	K3
III	D	DATA ANALYSIS	
3.1.0	Sources of collection of data	Outline the Sources of collection of data	K2
3.1.1	Primary sources	Outline the Sources of Primary sources	K2
3.1.2	Secondary sources	Outline the Sources of Secondary sources	K2
3.1.3	Survey observation	Apply Survey observation	K3

3.2.0	Experimentation	Apply Experimentation	K3		
3.3.0	Coding	Apply Coding	К3		
3.4.0	Data-entry	Build Data-entry	K3		
3.5.0	Tabulation	Model Tabulation	К3		
3.5.1	Cross tabulation	Model Cross Tabulation	К3		
IV	Ι	NTRODUCTION TO SPSS			
4.1.0	0 Hypothesis Outline the need of Hypothesis				
4.1.1	Meaning	K2			
4.1.2	Types	Summarize the types of Hypothesis			
4.2.0	Statistical testing	Apply Statistical testing	K3		
4.2.1	Chi-square	Apply Chi-square testing	K3		
4.3.0	SPSS procedures	Apply SPSS procedures	K3		
4.3.1	Application	Model Application	K3		
4.3.2	Practical Experiment with practical needs		К3		
V		REPORT WRITING			
5.1.0	Presenting Results	Presenting Results Compile Results			
5.1.1	Written	Elaborate written proofs	K6		
5.1.2	Oral reports	Compose oral reports	K6		

	PROGRAMME OUTCOMES							PROGRAMME SPECIFIC OUTCOMES					
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
C01	Н	М	М	Н	Н	М	М	М	Н	М	L	М	Н
CO2	Н	М	Н	Н	Н	М	М	Н	М	L	-	L	Н
CO3	М	М	Н	М	Н	L	М	Н	-	М	М	М	М
CO4	Н	М	М	L	L	М	L	Н	L	-	L	Н	L
C05	Н	_	Н	М	L	М	-	М	L	М	-	М	Н
CO6	-	М	Н	Н	-	М	L	L	М	-	Н	Н	Н

5. COURSE ASSESSMENT METHODS

Direct

- 1. Continuous Assessment Test I,II
- 2. Open book test; Assignment; Seminar; Journal paper review, Group Presentation
- 3. End Semester Examination

Indirect

PASSENGER FACILITATION SEMESTER-VI COURSE CODE: U21AG611 TOTAL HOURS: 75 HOURS/WEEK: 6

1. COURSE OUTCOMES :

CREDITS: 5

On Completion of this course, the student will be able to,

S. No	Course Outcomes	Level	Unit Covered
1	Gain relavent knowledge and understanding in passenger handling and requirement	K2	Ι
2	Familiarize with check in procedure in airport	K2	II
3	Monitor, track illegal immigrants inorder to promote security of country	K5	III
4	Carry out the process in handling the baggage & ticketing	K5	IV
5	Help students to improve their communication & leadership skill	K5	V
6	Manage irregular operation and passenger required special handling	K3	Ι

2A. SYLLABUS

UNIT I - ROLES OF CSA

Passenger reception at check in desk – luggage at ticket check in – delay and irregularity management - airline services management - passenger boarding and disembark at the gate - management of passenger with difficulty - escort service for unaccompanied minors.

UNIT II - CHECK IN PROCEDURE

Why passenger has to check in? – where to check in? – passenger identity registration – baggage registration – seating arrangements.

UNIT III - IMMIGRATION

Understanding of immigration – purpose of immigration – laws and ethics – impact of undocumented immigrants – impact on the sending countries

UNIT IV -BAGGAGE AND TICKETING

163

15 Hours

15 Hours

15 Hours

Responsibilities – duties of ticketing officer – how does ticketing work? – checking baggage inside airport – baggage sorting – oversize baggage

UNIT V - PERSONALITY DEVELOPMENT 15 Hours

Communication – confidence – leadership – group discussion – presentation – personal hygiene and grooming – hair and skin care – motivation – interview techniques – resume writing

2B. TOPICS FOR SELF STUDY

S. No	Topics	Web Links
1	Efficient handling of air	https://www.google.com/url?sa=t&rct=j&q=&esrc=s&sou
	passengers	<u>rce=web&cd=&ved=2ahUKEwjjjIXd2IjxAhVKIEsFHQKRBPM</u> QFnoECBYQAA&url=http%3A%2F%2Fcolbournecollege.we
		ebly.com%2Fuploads%2F2%2F3%2F7%2F9%2F23793496%
		2Funit_19_lo_12_handeling_air_passengers_score_sh eet.pdf&usg=AOvVaw0fR-H1dO11017In7psTEhY
2	Airport check in procedure	https://en.wikipedia.org/wiki/Airport_check-in
3	Baggage checking procedure	https://www.esky.com/travel-guide/airline-tickets/check- in-and-passenger-service/airport-counter-check-in

2C. REFERENCE BOOKS:

- R.K. bali- Air Regulations.
- A Practical Guide to Airline Customer Service: From Airline Operations to Passenger Services by Collin c Law.

UNIT	COURSE CONTENTS	LEARNING OUTCOMES	TAXONOMY LEVEL	
Ι		ROLES OF CSA		
1.1	Passenger reception at check in desk	Inspect passenger documentation	K4	
1.2	Luggage at ticket check in	Process luggage and ensure that it complies with airline policy	K4	
1.3	Delay and irregular management	Manage irregular operation at airport	К3	
1.4	Airline service management	Explain process included in managing airline service	K2	
1.5	Passenger boarding and	Make public address, announcement	K3	

	disembarking at the gate	whenever required	
1.6	Management of passenger	Prioritize the passenger with	K5
	with difficulty	difficulty	
1.7	Escord services for	Handle escord service for	K2
	unaccompanied moinors	unaccompanied minors	
II		CHECK IN PROCEDURE	
2.1.0	Why passenger has to do check in	Explain the importance of check in	K2
2.1.1	Where to check in?	Locate the appropriate check in	K4
2.1.2	Passenger identity	Extend knowledge about passenger	K2
2.1.2	registration	registration	
2.1.3	Baggage registration	List out the requirement in baggage	K2
2.1.3		registration	
2.1.4	Seating arrangements	Select passenger and organize the	K3
		aircraft seating	
III		IMMIGRATION	
3.1.0	Understanding of immigration	Understand the role of immigration	K2
3.1.1	Purpose of immigration	Explain the purpose of immigration	K2
3.1.2	Laws & ethics	List out the rule followed in	K1
5.1.2		immigration	
	Impact of	Understand the problems emerged	K3
3.1.3	undocumented	by undocumented immigration	
	immigration		
3.1.4	Impact of the sending	Define sending country and its	K2
	countries	impact	
IV		GGAGE AND TICKETING	
4.1.0	Responsibilities	Explain the responsibility of who is	K1
		handling baggage and ticketing	
4.1.1	Duties of ticketing	Understand the role of ticketing	K2
	officer	officer	774
4.1.2	How does ticketing	List out the process included in	K4
	work	ticketing	1/2
4.1.3	Checking baggage inside	Demonstrate baggage checking at	K2
414	airport	airport	V.A.
4.1.4	Baggage sorting	Categorize baggage by weight	K4
4.1.5	Oversize baggage	Evaluate and remove the extra	K5
V	DED	weight for safe operation of flight SONALITY DEVELOPMENT	
•	Communication	Motivate them to increase	K4
5.1.0		communication skill	114
5.1.1	Confidence	Develop the confidence	K6
5.1.2	Leadership	Extend the leadership skill	K0 K2
5.1.3	Group discussion	Show their special skills	K1
5.1.4	Presentation	Extend the skill in presentation	K1 K2
5.1.5	Personal hygiene &	Explain the importance of personal	K2
2.1.0			

	grooming	health	
5.1.6	Hair & skin care	Develop their physical appearance	K3
5.1.7	Motivation	Understand the value of motivation	K2
5.1.8	Interview techniques	Improve technical knowledge	K6
5.1.9	Resume writing	Construct resume	K6

		PROGRAMME OUTCOMES									PROGRAMME SPECIFIC OUTCOMES			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4	
CO1	Н	L	М	М	М	-	М	M	М	М	М	М	М	
CO2	M	Н	-	М	L	L	н	н	Н	L	Н	Н	Н	
CO3	M	L	Н	Н	Н	Н	н	М	М	L	-	L	Н	
CO4	L	М	Н	Н	Н	Н	М	М	М	-	М	Н	М	
CO5	М	М	Н	Н	-	L	М	М	М	-	L	М	М	
CO6	М	М	Н	Н	Н	М	н	L	М	М	М	Н	Н	

5. COURSE ASSESSMENT METHODS

Direct

1. Continuous Assessment Test I,II

- 2. Open book test; Assignment; Seminar; Journal paper review, Group Presentation
- 3. End Semester Examination

Indirect

RAMP SERVICES MANAGEMENT

SEMESTER-IV CREDIT: 4 HOURS/WEEK: 5

COURSE CODE: U21AG612 TOTAL HOURS: 60

1. COURSE OUTCOMES :

On Completion of this course, the student will be able to,

S. No	Course Outcomes	Level	Unit
			Covered
1	Comprehend the methods of fueling with safety measure	K2	Ι
2	Accomplish the given task efficiently and to handle emergency situation	K3	Π
3	Practice the process of managing different documents required in aircraft operation	K3	III
4	Extend the knowledge in understanding the risk of man made errors	K2	IV
5	Practice the process of ramp devices including ground handling, deicing, baggage handling	K3	V
6	Develop the situation awareness& evaluate the ideas of organization	K2	Π

2A. SYLLABUS

UNIT I - FUEL

Basics of Static electricity – Types of Fuel – Refueling Procedure – Methods of Refueling – Safety Measures – Quality of Fuel – Grounding Aircraft, Procedure to remove spilled fuel.

UNIT II - SIGNALS AND MARSHALLING 12 Hours

Methods of transmitting emergency signal from air in case of RT failure – light signals to a/c in flight and in ground – Survivors Signals (Accident site) – uses of Marshalling uses and signals to aircraft.

UNIT III - DOCUMENTS

Documents to be maintained for an aircraft and aviation personal – engine log book – journey log book – propeller log book – Snag log book – Maintenance Schedule.

12 Hours

UNIT IV - INHERENT RISK

Accident and Incident Definition – Personal Injury – Aircraft Damage – Refuelling and Defueling Risk – Fire – Wrong calculation and wrong loading of cargo.

UNIT V - RAMP SERVICES

12 Hours

Connecting and Disconnecting Ground Services – Baggage and Fright handling – Aircraft towing – High Pressure Air – Push back – De-icing / Anti icing.

2B. TOPICS FOR SELF STUDY

S. No	Topics	Web Links
1	Aircraft marshalling procedure	https://en.wikipedia.org/wiki/Aircraft_marshalling
2	Aircraft towing procedure	https://www.skybrary.aero/index.php/Aircraft_Towing
3	Class of fire and correct fire extinguisher	https://www.ifsecglobal.com/global/choose-right-type- fire-extinguisher/

2C. REFERENCE BOOKS:

DGCA CAR Section – 7

Airport Operations 3rd Edition by Norman Ashford, Pierre Coutu, John Beasley

3. SPECIFIC LEARNING OUTCOMES (SLO):

UNIT	COURSE CONTENTS	LEARNING OUTCOMES	TAXONOMYLEVEL		
Ι		FUEL			
1.1	Basic of static electricity	Define importance of static during refuelling procedure	K1		
1.2	Types of fuel	Classify different types of fuel	K2		
1.3	Refuelling procedure	Outline the list of steps to be followed while refuelling	K2		
1.4	Methods of refuelling	Explain the different types of refuelling	K2		
1.5	Safety measures	Select appropriate safety measure	K4		
1.6	Quality of fuel	Evaluate the fuel quality	K5		
1.7	Grounding aircraft	Demonstrate the grounding of aircraft while fuelling	K2		

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1.8	Procedure to remove spilled fuel	Practice the removal of spilled fuel from ramp	K3
II		NALS AND MARSHALLING	
2.1.0	Method of transmitting emergency signal from air in case of RT failure	Demonstrate the signal to be transmitted from air in case of RT failure	K2
2.1.1	Signals to aircraft in flight and in ground	Choose appropriate signal to pass information to aircraft during RT failure	K3
2.1.2	Survivors signal	Explain signals to be used by survivors from an accident	K2
2.1.3	Uses of marshalling signals to aircraft	Show signals to guide aircraft from taxiway to Ramp	K1
III		DOCUMENTS	
3.1.0	Documents to be maintained for an aircraft and aviation personal	List out the required documents for operation	K1
3.1.1	Engine logbook	Evaluate the life of engine	K5
3.1.2	Propeller log book	Outline the uses of propeller log book	K2
3.1.3	Snag log book	List the problem caused in aircraft	K4
3.1.4	Maintenance schedule	Decide the correct time for scheduled maintenance	K5
IV		INHERENT RISK	
4.1.0	Accident and incident definition	Define the difference between accident and incident	K1
4.1.1	Personal injury	Explain what is personal injury	K2
4.1.2	Aircraft damage	Identify the damages in aircraft	K4
4.1.3	Refuelling and defueling risk	List out the risk possibilities in fueling	K4
4.1.4	Fire	Explain the risk factors of fire	K2
4.1.5	Wrong calculation and wrong loading and cargo	Interpret the risk of wrong calculation and loading of cargo	K2
V		RAMP SERVICES	
5.1.0	Connecting and disconnecting ground service	Explain the process of connecting and disconnecting ground device	K2
5.1.1	Baggage and fright handling	Describe the handling method of baggage and fright	K2
5.1.2	Aircraft towing	Define the procedure in towing aircraft	K1
5.1.3	High pressure air	Explain the usage of high pressure air in aircraft	K2
5.1.4	Push back	Outline the process included in push back	K2

515	De icing and anti icing	Understand the importance of	K5
3.1.3		deicing and anti icing of aircraft	

	PROGRAMME OUTCOMES								PROGRAMME SPECIFIC OUTCOMES				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	Н	L	М	М	М	-	М	М	М	М	М	М	М
CO2	М	Н	-	М	L	L	н	н	Н	L	Н	Н	Н
CO3	М	L	Н	Н	Н	Н	н	M	М	L	-	L	Н
CO4	L	М	Н	Н	Н	Н	М	М	М	-	М	Н	М
CO5	М	М	Н	Н	-	L	М	М	М	-	L	М	М
CO6	М	М	Н	Н	Н	М	Н	L	М	М	М	Н	Н

5. COURSE ASSESSMENT METHODS

Direct

- 1. Continuous Assessment Test I,II
- 2. Open book test; Assignment; Seminar; Journal paper review, Group Presentation
- 3. End Semester Examination

Indirect