MASTER OF BUSINESS ADMINISTRATION (MBA) DEGREE PROGRAMME SYLLABUS WITH EFFECT FROM 2023-2024

934E901: Specialization Courses in Airport and Airline Management

Subject	Subject Name	Category	L	T	P	0		S		Mark	S
Code							Credits	Inst. Hours	VIO	External	Total
934E901A	Aviation and Legal Environment	Elective	3	-	1	1	3	3	25	75	100
934E901B	Aviation Resource Management	Elective	3	-	-	-	3	3	25	75	100
934E901C	Strategic Airport Planning and Marketing	Elective	3	-	-	1	3	3	25	75	100
934E901D	Airline and Airport Operations	Elective	3	-	1	1	3	3	25	75	100
934E901E	Aviation Safety and Security	Elective	3	ı	1	ı	3	3	25	75	100
934E901F	Airline Marketing and Strategic Airline Alliances	Elective	3	-	1	1	3	3	25	75	100
934E901G	Air Traffic Control	Elective	3	-	-	-	3	3	25	75	100
934E901H	Aircraft Maintenance Management	Elective	3	-	1	ı	3	3	25	75	100
934E901I	Airlines Insurance	Elective	3	-	-	1	3		25	75	100

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Subject Code	Subject Name	Category		Т	P	О	Credits	Inst. Hours	CIA	External	Total		
934E901A	AVIATION AND LEGAL ENVIRONMENT	Elective	3	-	-	-	3	45	25	75	100		
		e Objective											
C1	To gain knowledge of Aviation												
C2	To understand the legal system related to Aviation												
C3	o understand the laws and regulations related to Aviation												
C4	To gain knowledge on the civi	l aviation re	equir	eme	nts								
C5	To understand the internationa	l conventio	ns re	late	d to	avia	atio	n					
UNIT	Detai	Details									rse ctives		
I	DGCA-Introduction to Direct Aviation-DGCA functions-DG as Regulatory Authority			9		C1							
II	REGULATIONS-Aircraft Act 1937	ules		9		C	2						
III	NATIONAL LEGISLATION Act, 1953 (27 of 1953) The Air Corporations and Repeal) Ordinance The Air Corporations and Repeal) Act, 1994 The International Airports (1971) The National Airports (1985) The Airports Authority (1994) The Carriage by Air Act The Tokyo Convention The Anti-hijacking Act The suppression of unlated Civil Aviation Act, 1986	(Transfer of 1994(4 of 170) (Transfer of 1994) (Tra	of Un 1994 of Un ity o of I Act 1 (20 co of 19	nder 4) f India 994 972 of 19	taki taki dia dia, 1 (55	ngs act, 985 5 of		9		C	3		
IV	 CIVIL AVIATIONREQUIRE Section 1-General Section 2-Airworthines Section 3-Air Transpor Section 4-Aerodrome 	ss t	ĺ	Air	Tra	ffic		9		С	4		

	Services Services Services					
	Section 5-Air SafetySection 6-Design standards and type certification					
	Section o-Besign standards and type certification Section7-Flight crew standards, training and					
	licensing					
	Section 8-Aircraft operations					
	INTERNATIONAL CONVENTIONS: The Chicago					
	 conventions, 1944 The International Air Services Transit Agreement, 1944 					
V	The International Air Transport Agreement, 1944	9	C5			
	• The Warsaw Conventions, 1920					
	• The Geneva Convention, 1948					
	• The Rome Convention, 1952					
	The Tokyo Convention, 1963 Total	45				
	Course Outcomes	43				
Course						
Outcomes	On completion of course students will	Program Outcomes				
CO1	Have a knowledge of Aviation Legal Environment and understanding of the legal system related to Aviation PO4, P					
CO2	Understanding of the laws and regulations related to Aviation]	PO6			
CO3	Knowledge on the civil aviation requirements	PO5, 1	PO6, PO7			
CO4	Understanding of the international conventions related to aviation		6, PO7			
CO5	Gain knowledge of Aviation Legal Environment	PO4, 1	PO6, PO7			
	Reading List	,	,			
1.	Aircraft Manual, C.A.R.Sec.II					
2.	http://epgp.inflibnet.ac.in/epgpdata/uploads/epgp_content/9349/ET/15278285773.20Q1.pdf	S0018 27/P 0	001871/M031			
3.	https://indiankanoon.org/doc/979883/					
4.	https://www.icao.int/publications/pages/doc7300.aspx					
	References Books					
1.	Ron Bartsch, "International Aviation Law", Taylor and Fra					
2.	"A Guide to India's Aviation Law", Thomson Reuters Sou 2019		·			
3.	"The Principles and Practice of International Aviation Law Brian F. Havel., Cambridge University Press	"., Gabriel	S. Sanchez,			
4.	International Environmental Law., Pierre-Marie Dupuy, Jo edition., Cambridge University Press	rge E. Viñu	iales., 2 nd			

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5.	International Aviation Law, A Practical Guide., Ronald I. C. Bartsch., Taylor &
J.	Francis., ebook format
	Biodiversity and International Law, The Effectiveness of International
6	Environmental Law., A. S. Bilderbeek, Ankie Wijgerde, Netty van Schaik, Simone
	Bilderbeek., IOS Press

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1				3		2		
CO 2						2		
CO 3					3	3	2	
CO 4						2	2	
CO 5				3		2	2	

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Subject Code	Subject Name	Category	LT		P	O	Credits	Inst. Hours	CIA	External	Total			
934E901B	AVIATION RESOURCE MANAGEMENT	Elective	3	-	-	-	3	45	25	75	100			
		e Objectivo												
C1 To develop an understanding of crew resources management														
C2		Γο gain knowledge of aircraft cabin												
C3	To manage fatigue and stress in air activity													
C4		To understand the training and recruitment process of airline pilot and crew												
C5	To gain knowledge on aviation	n informatio	n ai	nd n	nana	agen								
UNIT	Detai			No. o Hour		Cou Objec								
I	CREW RESOURCES MANA The role of crew resources n with culture – Creating and im safety culture – human asses crew and CRM training in concepts in the air ambulance s	t	9		C	1								
II	THE AIRCRAFT CABIN: Safety issues in capital – cab service, teamwork and flight job performances and job satis	safety - fl						9		С	2			
III	FATIGUE AND STRESS: Fatigue management in aviation—Stress management—the phy	_			act	ivity	y	9		C	3			
IV	 Stress management – the physiological factor SELECTION AND TRAINING: Job requirements of Airline Pilots – Pilot selection process – Personality test for traffic controllers – training of pilots and crew members – the link between human factors and organizational learning. 									C4				
V	AVIATION INFORM MANAGEMENT:	MATION perational perational in	inf nfor	mat		on, –		9		C	5			
	Tota	ıl						45						

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	Course Outcomes									
Course Outcomes	On completion of this course, students will;	Program Outcomes								
CO1	Develop understanding of crew resources management	PO4, PO6, PO7								
CO2	Gain knowledge of aircraft cabin	PO4, PO6								
CO3	Manage fatigue and stress in air activity	PO4, PO6, PO7								
CO4	airline pilot and crew									
CO5	Gain knowledge on aviation information and management	PO6, PO8								
	Reading List									
1.	https://www.youtube.com/watch?v=c-8rLmxAyH0									
https://www.researchgate.net/publication/338636641_SELECTION_PRO										
	S_A_KEY_HUMAN_ASPECT_IN_AIR_TRAFFIC_CON									
3.	https://www.icao.int/Meetings/FutureOfAviation/Pages/de	fault.aspx								
	References Books									
1.	Brain Mc Allister, Crew Resource Management, Air life									
2.	Jensen, Pilot Judgement & Crew Resource Management, N									
3.	ThomasLSeamster, Aviation Information Management – H Ashgate	From Documents Data,								
4.	ThomasL Seamster & Barbara G Kanki ,Aviation Info Ashgatem	ormation Management,								
5.	Eduardo Sales, Katherine A Wison ,Crew Resource Manag	gement, Ashgate.								
6.	Frank H Hawkins, Human Factors in Flight Ashgate									
7.	Mary Edwards& Elwyn Edwards, The Aircraft Cabin –Ma, Ashgate	naging Human Factors								
8.	Harry W Orlady & Linda M Orlady, Human Factors Operation Ashgate	in Multi Crew Flight								

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1				2		2	2	
CO 2				3		3		
CO 3				2		2	2	
CO 4			2	2		2	2	
CO 5						2		2

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Subject Code	Subject Name	Category	L	Т	P	O	Credits	Inst. Hours	CIA	External	Total	
934E901C	STRATEGIC AIRPORT PLANNING AND MARKETING	Elective	3	-	1	1	3	45	25	75	100	
	Course	Objectives	S	ı						l l		
C1	To understand the airport opera	tions										
C2	To provide an insight into airpo											
C3	To learn airport planning and survey, planning and designing of terminal areas traffic control and aids											
C4	To learn in detail about role and						irpo	rt En	terpr	rise		
C5	To learn about non-aviation and	l airport ma	rket	ting	plai	n			0			
UNIT	Detail]	No. o Hour		Cou Objec						
I	Introduction – Growth of organization and associations, airfield components, Air traffareas. Context of Airport Development of Airport Plan consumers – Airline decision –	9			C1							
II	AIRPORT CHARACTERIS' AIRPORT DESIGN -Componispeed, airport characteristic DELAY: Factors affecting carunway capacity related to distain the componism of the co	ents Size, ics. CAPA	CIT term	ing ΓΥ nina	rad A tion	ND of		7		C	2	
III	taxiway capacity. AIRPORT PLANNING AND SURVEYS: Runway length and width, sight distances, longitudinal and transverse, runway intersections, taxiways, clearances, aprons, numbering, holding apron. PLANNING AND DESIGN OF THE TERMINAL AREA: Operational concepts, space relationships and area requirements, noise control, vehicular traffic and parking at airports. AIR TRAFFIC CONTROL AND AIDS: Runways and taxiways markings, day & night landing aids, airport lighting and other associated aids.								8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		3	
IV	The role and scope of activity of the economic impact on coumain governance patterns in the	of the Airpontries and	reg	ions	s –	the	12			C	4	

V	International path of evolution in the airport business – Airport transport value chain – Air enterprises – two primary actors in the air transport value chain. Rise of airport marketing for the aviation related business – airports market positioning – primary hub – secondary hub – regional airport – all cargo airport – airport positioning criteria – role on the market – identification of partners for airport development – first quantum leap of the airport enterprises – low cost airports – role of helicopters as a complimentary feeder and defender of hub airports – Airport revenue management – Airport alliances – management contract. The Development of the Non Aviation – Related value Proposition. Evolution of traditional Air port – Evolutionary patterns for airport enterprises – Commercial Airport Philosophy – tourist and conference service – logistic services – property management – consulting services – BAA and the non aviation business – best airport in the world: The case of Singapore Airport – Role and meaning of loyalty for a service company – Bench marking airline experience – Provider – Customer relational link – benefits from ALPS implementation of ALPS Airport marketing Planning – London city Airport: A best – in – class provider in the Airport business – The Airport industry and An International Picture - Air port business in 2002 – US & European performance in 2002 – Asia pacific performance in 2002 – Middle east/Africa in 2002 – Airport business in 2003 – 2005 outlook for the	10	C5	
	Air transport industry. Total	45		
	Course Outcomes			
Course Outcomes	On completion of this course, students will;	Program	Outcomes	
CO1	1 1			
CO2	Provide an insight into airport characteristics	PO	2, PO7	
CO3	Learn airport planning and survey, planning and designing of terminal areas, traffic control and aids	PO	6, PO7	
CO4	Learn in detail about role and scope of activity of the Airport Enterprise	PO1, PO2, PO6, PO7		
CO5	Learn about non-aviation and airport marketing plan	PO2, I	PO6, PO7	

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	Reading Materials								
1.	https://www.aai.aero/en/content/airport-policy								
2.	https://onlinepubs.trb.org/Onlinepubs/trcircular/247/247-003.pdf								
3.	3. https://civilsolution1.webs.com/airport%20planning%20and%20design.pdf								
4.	4. https://hbs.ac.in/hbs-life/course/strategic-airport-infrastructure-management/								
5.	https://www.icao.int/meetings/wrdss2011/documents/jointworkshop2005/atag_soci								
J.	<u>albenefitsairtransport.pdf</u>								
	Text Books								
1.	Strategic Airport Planning –Robert E.Caves & Geoffrey D.Gosling-Elsevier								
1.	Science Ltd								
2.	Airport Marketing –David Jarach –Ashgate Publishing Limited								
	References Books								
1.	Aviation Safety Programs A Management Hand Book-Richard H.Wood –								
2.	Jeppesen Sanderson Inc.								
3.	Strategic Management –Gregory G.Dess and Alex Miller –McGraw Hill								
4	Strategic Management: An Integrative Perspective-A.C.Hax and NS-Majifu,								
4.	Prentice Hall.								
5.	Marketing Management –Philip Kotler – Pearson Education/PHI								
6.	Marketing Management – RAJAN SAXENA –Tata McGraw Hill								
7	International Marketing – Philip R.Cateora-Irwin McGraw Hill, 9th Edition.								

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1		2		2				
CO 2		2					2	
CO 3		2				2	2	
CO 4	2	2				2	2	
CO 5		2				2	2	

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Subject Code	Subject Name	Category	L	Т	P	O	Credits	Inst. Hours	CIA	External	Total		
934E901D	AIRLINE AND AIRPORT OPERATIONS	Elective	3	-	-	-	3	4 5	25	75	100		
	Course	Objectives											
C1	To learn about the history of avia	ation and cu	ırre	nt c	hall	eng	es in	airl	ine i	ndustry	y		
C2	To learn airport management												
C3	To understand air transport servi												
C4	To gain knowledge airline opera												
C5	To learn logistics and air cargo r	nanagemen	t										
UNIT	Details							lo. o: lour		Cou Object			
I	INTRODUCTION History of Aviation- Development of Air transportation in India-Major players in Airline Industry-SWOT analysis in Airline Industry-Market potential of Indian Airline Industry—Current challenges in Airline Industry-Completion in Airline Industry-IATA & ICAO									C1			
II	AIRPORT MANAGEMENT Airport planning-Operational planning, design, and operat Airport functions-Organization Airports sectors-Airport author scenario of Airport management	tion-Airpor structure o rities-Globa	f A l a	per Airli nd	atio ne a	and				C2			
III	AIRTRANSPORT SERVICES International trends-Emerging Public Private Participation Environmental regulations-Pri International developments-En Regulatory issues-Meteorologic Airport fees, rates, and charges	Indian s in India vate part	scer an ricip	nario Ai atio	rpo on atio	rts- in ons-		9 C3					
IV	AIRLINE OPERATIONS Airline Terminal Managem Counter/Reservation and Ticke Boarding pass-Customs and In ordination-Security Clearance-B	eting-Check nigration f aggage and Disabled rs and Hun VVIP-Co-o	orm orm l -H P nan	n/Ish nalit and asse Re	sue es-C ling enge mai	Co- g of ers-		9		C	4		

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V		LOGISTICS AND AIR CARGO MANAGEMENT Concept of Logistics- Role of Ware Housing-trend in material handling-Global Supply Chain-Quality concept and Total Quality Management-improving Logistic performance-Air Cargo Concept- Cargo Handling-Booking of Perishable Cargo and Live Animals- Industry Relation-Type of Air Cargo-Air Cargo Tariff, ratios and Charges-Airway Bill, Function, Purpose, Validation. Total	9	C5				
		45						
Cour Outco		Program	Outcomes					
CO	1	Learn about the history of aviation and current challenges in airline industry	PO4, I	PO6, PO7				
CO	2	Learn airport management	PO1, PO	2, PO6, PO7				
CO3		Understand air transport services	PO2, PO7					
CO4		Gain knowledge on airline operations		6, PO7				
CO	5	Learn about logistics and air cargo management	PO1,PO2	2, PO4, PO7				
		Reading List						
1.		/www.civilaviation.gov.in/en/aboutus/orgsetup						
2.		/cdn.cseindia.org/userfiles/aviation_paper.pdf						
3.		/www.civilaviation.gov.in/sites/default/files/moca_001669.p						
4.	http://	sim.edu.in/wp-content/uploads/2017/10/Logistics-managem	ent-air-and-	-sea-1.pdf				
		References Books						
1.		m.A-Managing Airport an International Perspective —Butter d-2001	worth Hein	emann,				
2.	Wells	A-Airport Planning and Management, 4th Edition-McGraw	-hill, Londo	on-2000.				
3.		nis.RThe Airport Business-Routledge, London-1992	•					
4.		nder T.Well, Seth Young –Principles of Airport Managemer	nt-McGraw	Hill 2003				
5.		enguttuvan –Fundamentals of Airport Transport Managemen						
6.		enguttuvan – Principles of Airport Economics-Excel Books-2						
7.	Richard De Neufville - Airnort Systems: Planning Design and Management -McGraw-							
8.	Kent (Gouiden- Global Logistics Management –Wiley Black Well						
	Lambert –Strategic Logistic Management – Academic Intl Publishers							

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1				2		2	2	
CO 2	2	3				2	2	
CO 3		2					3	
CO 4						2	3	
CO 5	2	2		3			2	

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Subject Code	Subject Name	Category	L	Т	P	О	Credits	Inst. Hours	CIA	External	Total
934E901E	AVIATION SAFETY AND SECURITY	Elective	3	1	1	-	3	4 5	25	75	100
	Course	Objectives									
C1	To enable students to unde pertaining to Aviation	rstand the	fu	nda	mer	ıtals	s of	nat	iona	l secu	rity
C2	To throw light on terrorism and										
C3	To understand screening relate										
C4	To provide insights into variou			sure	s ac	lopt	ed b	y av	atio	n secto	r
C5	To understand technology relat	ed to aviati	on					0. 0	e	Con	IMGO.
UNIT	Details							o. o. [our:		Cou Object	
I	transportation – Airways – Develor industry – Deregulation – Consindustry – Emergency Funding transportation. Hijacking – International Prospective – Tregulations – Airport security – Airport Operator rules – Resista 93 – 366 – threat warnings – Faviation Security Improvement Aviation Security – research and Talk: Crimes against Humanity Hijacking, Montreal-Bonn Airmonder Airmonder Security – Research and Talk: Crimes against Humanity Hijacking, Montreal-Bonn Airmonder Security – Research and Talk: Crimes against Humanity Hijacking, Montreal-Bonn Airmonder Security – Research and Talk: Crimes against Humanity Hijacking, Montreal-Bonn Airmonder Security – Research and Talk: Crimes against Humanity Hijacking, Montreal-Bonn Airmonder Security – Research and Talk: Crimes against Humanity Hijacking, Montreal-Bonn Airmonder Security – Research and Talk: Crimes against Humanity Hijacking, Montreal-Bonn Airmonder Security – Research and Talk: Crimes against Humanity Hijacking, Montreal-Bonn Airmonder Security – Research and Talk: Crimes against Humanity Hijacking, Montreal-Bonn Airmonder Security – Research and Talk: Crimes against Humanity Hijacking, Montreal-Bonn Airmonder Security – Research and Talk: Crimes against Humanity Hijacking Airmonder Security – Research and Talk: Crimes Airmonder Security – Research	A National security asset: importance of Air transportation – Airways – Development of the Aviation industry – Deregulation – Consequences of 9/11 to the industry – Emergency Funding – Protecting Public Air transportation. Hijacking – Security Measures – International Prospective – Trend begins – Aviation regulations – Airport security – New Carrier rules – New Airport Operator rules – Resistance Fades – Public Law 93 – 366 – threat warnings – Presidents Commission – Aviation Security Improvement Act of 1990 – Civil Aviation Security – research and Development – Lot of Talk: Crimes against Humanity – Convention – Tokyo – Hijacking , Montreal- Bonn Agreement – Diplomatic Conference on Air Law – Ministerial Conference on								C	1
II	Aircraft as Missiles: Early Hijackings Spread – Initial Pu Doors – Profile of a Hija Program/Federal Air Marshal Significant Air hijackings since Introduction – Causes of Terr Rival Claims – Palestinian Li Abu Nidal – Hamas – Iranian Hezbollah – Afghanistan: Osam Japan – Peru – Russia – US	blic respond cker – S Program – 1972.The lorism – M beration O Support of a Bin Lade	se Sky – H Roo Iidd rgai rgai f Te	– C Mistots r lle niza erro Eu	Cock Iars ory ema Eas tior risn rop	kpit hal of ain: t - n - e -		9		C	2

	Nuclear Terrorism. The Best Defense: Introduction –		
	Counter terrorist Units – Enforcement – central, Defense Intelligence Agency.		
III	Screening: The last line of Defense – Introduction – Facilities – Screening check Point Augmentation – Law enforcement Officers at the gate – Flexible Law enforcement response Program – Public and Private Security Interface. Airborne Aircraft Security. Increased Supervision: Introduction – Criminal Guards – Ergonomic Solutions – potential Operator concerns – measuring operator Performance – The public tolerate the intrusion – Introduction – Metal detectors – Selecting a metal detector – Hand Held Body Scanners – X-ray inspection units – Passive and active metal detectors – Wave imaging – Selecting an X- Ray unit – Sizes – Film and Laptops – Details of X-ray unit – US standard for radiation exposure – New computer software – Trace –	9	C3
IV	Detection technology – Tangents – conclusion. A Loose End : Introduction – Cargo Carrier responsibility – Air cargo security – Suicides – Baggage Tags – Passenger/ Baggage reconciliation – Airport lockers – Container hardening – Blast containment versus blast management – Airmail security – Indirect air carriers – known and unknown shipper – Vacuum chambers – Inspection of cargo – International Air cargo standards – Irelands air Cargo Security Program – TSA inspection of Air port – Conclusion. A slippery slope: Introduction – Fourth Amendment – Administrative search exception – Balancing Approach – Less intrusive alternatives – Stop and frisk exceptions – Individual stop and frisk search – Selective class stop and frisk search – Consent exception – Fourth amendment requirements – reasonableness – probable cause – Exclusionary rules – Police participation – Non- Violent threats – Passenger's right to terminate a search – Alternate view point – the war on drugs – New law and technologies – Conclusion . Foreign Airport Security: Introduction – ground Security – American assessments – diversion airports – Aviation safety assessment program – Legal Remedies – Profiling – Bomb sniffing dogs – Conclusion.	9	C4
V	Technological Improvements: Some intrusive and some not: Introduction – Core commission – Micro wave Holographic Imaging – Body orifice security scanner – Flight Vu TM Aircraft data scanner – New Generation of	9	C5

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	video security systems – Bio simmer TM quadruple resonance device – Intelliscan TM - 12000 Metal Detector-Biometric systems - FACEIT TM Access controls – Imaging Technologies – Conclusion. The Foundations of							
	Security: Introduction -Airport/Runway incursions – Passenger interference – Conventional weapons –							
	explosives – Nuclear weapons – Biological weapons –							
	Conclusions. Another Foundation: Introduction – Access							
	control – exterior alarm sensors – Control room – no							
	power/ security – media intrusion – computer security –							
	conclusion.	4.7						
	Total	45						
C	Course Outcomes							
Course Outcomes	On completion of this course, students will;	Program	Outcomes					
CO1	Understand the fundamentals of national security pertaining to Aviation	PO1, PO2	, PO6					
CO2	Understand light on terrorism and hijacking	PO3, PO5, PO8,						
CO3	Understand screening related to aviation	PO1, PO3	, PO5, PO8					
CO4	Gain insight into various security measures adopted by aviation sector	PO1, PO2	, PO6, PO7					
CO5	Learn the technology related to aviation	PO1, PO2	, PO5, PO8					
	Reading materials							
1.	https://www.civilaviation.gov.in/sites/default/files/Final%2%209th%20March%202016.pdf	20Report%2	20-					
2.	https://catdir.loc.gov/catdir/toc/fy044/2003065829.html							
	Text Book							
1.	Aviation and Airport Security – Kathleen M. Sweet – Pear	rson Educat	ion Inc.					
	Reference Books							
1.	, c							
2.	Aviation Safety Programs-Richard H.Wood –Jeppesen Sa	nderson Inc						

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1	3	2				3		
CO 2			3		3			3
CO 3	2		3		2			3
CO 4	3	3				2	3	
CO 5	3	2			2			3

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Subject Code	Subject Name	Category	L	T	P	О	Credits	Inst. Hours	CIA	External	Total	
	AIRLINE MARKETING	Elective	3	-	-	-	3	4	25	75	100	
934E901F	AND STRATEGIC							5				
	AIRLINE ALLIANCES	Ohioatiwaa										
C1	To gain insight into market for a	Objectives in transport	and	Lun	dor	stan	d the	mai	·kati	na etro	tegy	
C2	To gain insight into market for a		anc	ı un	uci	stan	u uic	IIIai	KCIII	ng sua	negy	
C3	To understand promotion market		irli	ne								
C4	To understand the regulatory fra				nspo	ort						
C5	To throw light into the finances						es					
								lo. 0	f	Cot	irse	
UNIT	Details						H	lour :	S	Obje	ctives	
I	_	f Marketing al Airlines - es — what but itions — apparations — apparations — conceptenger — mand — psych — air fresenger and — senger — and — senger — the filme Industies — the filme filme in the film	g Pri- g Pri g Pr	efinites the control of the control	ples attior are are nd t usin Frei ntat stor ics- mark frei ctor fact Airl For rate - fo	s of we rue less ght ion mer the cet-ght less ces ces ces ces ces ces ces ces ces		9		C	1	
II	Product Analysis-What is product analysis and its application to the and schedules – related product service – related product feature quality – introduction of management – building blocks in	e Airline In act features es – contro Pricing	ndus s – ollir and	stry cu ng p r	– fl stor orod ever	leet ner luct nue		9		C	C2	

	,		
	uniform and differential pricing – the structures of air freight pricing-Distribution Of Product And Brand Relationship-Distribution channel strategies – The Travel Agency Distribution system – Global Distribution System (GDS) –Distribution Channels in the Air Freight market – Brands and Commodities – Brand –Building in the Airline Industry – Brand Strategies		
III	Promotion Marketing-Fundamentals of relationship marketing – components of a relationship marketing strategy – frequent flyer programmers –the anatomy of a sale – sales planning – marketing communication techniques – airline advertising – selling in the air freight market – glossary of aviation terms and marketing terms.	9	С3
IV	The regulatory framework of Air Transport- Economic characteristics of the Airline Industry-Benefits of scale, scope and density in Air Transport-Types of Alliances between Airlines-Current Airline Alliance group-Cases of failed Airline Alliances-A Historical glimpse at Alliancing objectives-Reasons for Airlines building Alliances-Objectives of Alliances- Introduction-Marketing-driven objectives for alliances-Turbulence in marketing channels-Changes to airline marketing-Determinates of alliance image-Benefit challenges and cost of alliance brand association-Marketing and information. Performance measurement in airlines-Measuring the performance impact of alliance-Time continuum in performance assessment-Traffic and revenue enhancement-Cost-Productivity-Profitability.	9	C4
V	Introduction –Sources of financial benefits –Labour cost reduction –Cost reduction in sourcing – marking financial benefits come true- Airline views or financial benefits Traffic increase- revenue enhancement- Cost reduction-Profit improvement. The structure of alliance groups- The airline alliance group as a hybrid organization-The airline alliance group as an industrial network. Airline alliance groups as _multinational corporations' - The problem of local rationales. Introduction- Success drivers in airline business-Premises and objectives – Finding suitable partners – governance structure- degree of integration and trust-Organization's commitment- Ensuring flow of information- Performance evaluation-Managing cultural differences- In conclusion. Scenarios for the future- The internal dynamics of alliancing- a look into the future of	9	C5

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	airline alliance groups.						
	Total	45					
	Course Outcomes						
Course Outcomes	On completion of this course, students will;	Program Outcomes					
CO1	Gain insight into market for air transport and understand the marketing strategy	PO4, PO	5, PO6, PO7				
CO2	Gain insight into product analysis	PO4, PO	5, PO6, PO7				
CO3	Understand promotion marketing in the airline		4, PO5, PO6, PO7				
CO4	Understand the regulatory framework for air transport	PO4, PO	5, PO6, PO7				
CO5	Gain knowledge about the finances and management of airlines	PO4, 1	PO6, PO7				
	Reading Materials	•					
1.	https://www.tutorialspoint.com/aviation_management/aviae_marketing.htm	tion_manag	gement_airlin				
2.	https://nscpolteksby.ac.id/ebook/files/Ebook/Business%20 20Marketing%20and%20Management%20(2007)/6.%20C %20Product%20Analysis%20in%20Airline%20Marketing	hapter%20:					
3.	https://core.ac.uk/download/pdf/10127599.pdf						
	Reference Books						
1.	Marketing Management – Philip Kotler-Pearson Education	1					
2.	Marketing Management –Ramaswamy & Namakumari –M	IacMillan					
3.	Global Marketing Management –Warren J.Keegan –P.H.I						
4.	Strategic Management –An Integrated Approach –Hill Jon Bictantia)	es –(Dream	itech				
5.	Strategic Management Concept & Cases –Thomson & S Hill						
6.	Cases in Strategic Management –S.B.Budhiraja & M.B.At Hill.	hreya –Tata	n McGraw				
	Text Book						
1.	Airline Marketing and Management-Stephen Shaw - Limited	- Ashgate	Publishing				
2.	Managing Strategic Airline Alliances-Birgit Kleymann &	Hannu Seris	sto-				

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1				3	3	3	3	
CO 2				3	3	3	3	
CO 3		3		3	3	3	3	
CO 4				3	3	3	3	
CO 5				3		3	3	

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Subject Code	Subject Name	Category	L	Т	P	O	Credits	Inst. Hours	CIA	External	Total
934E901G	AIR TRAFFIC CONTROL	Elective	3	-	-	-	3	4 5	25	75	100
	Course	Objectives						ı		· I	
C1	To understand the human factors	in air traff	ic c	ontı	ol						
C2	To elucidate the information pro									ntrol	
C3	To demonstrate effective commu										
C4	To understand the Procedures, C				Bac	kgro	ound	deta	ils		
C5	To understand and manage stress	s in aviation	ı fie	eld			1				
UNIT	Details							lo. oi Iour		Cou Object	
I	Human factors in Air traffic Control –Temporal progress in Human Factors in ATC –The circumstances – Background Details – The Human Factors –Preventive measures. Nature of Human Error: Shell model – Modeling Error –Engineering ,Interactive Information Processing – Levels of Behavior – Skill based, Rule Based, Knowledge based – Violations – Decision Making – Action – nature of Intended action – Managing Human error – Individual blame or systemic causal									C	1
II	Information processing – Sensation and sensory memory – Perception – Detection – Attention – Recognition – Decision Making and response selection – the visual system – visual sensation, perception, cognition, imagery – visualization in air traffic control. Auditory cognition – Spatial Orientation – Situation awareness – Mental Models – decision making and Judgment – Cognitive aspects – attitudinal behavioral aspects – selection and									C	2
III	communication – Touch –	n — Listeninding — Body ATC env to solve pr m — Leade	Listening – Selecting ng – Non-verbal Body Language – C environment – solve problems – gate - Leadership – Team				3				

	T				
	learning – Communication style – teams and Team work – Teams – Conformity – Compliance – Group decision making – group polarization – group think – cultural influences – Team roles – Working with other teams.				
IV	Procedures – Circumstances – Background details – The Human factors – preventive measures – Checklists – Software display. Human machine systems – operational complexity versus Functional capability – Radar service – Procedural service – Future changes in the controlling environment – navigation: GNSS and free flight – surveillance: ADS and ADS-B – Other Human Factor issues in the CNS environment – Design and development – training – licensing	9	C4		
V	Stress – causes of stress – noise and vibration – stress recognition – Stress management – Estimating stress levels -Changing Attitudes and behavior – Post traumatic stress Disorder – Sleep and fatigue – Circadian Rhythms – Cardiovascular and respiratory systems – The digestive system and the kidneys – Mental performance – psychological problems – performance changes – safety management – A case study – The Mount Erebus Disaster – Individual Performance factors – task factors – organizational culture – ATS organizations.	9	C5		
	Total	45			
	Course Outcome				
Course Outcomes	On completion of this course, students will;	Program	Outcomes		
CO1	To understand the human factors in air traffic control	PO4,	PO6, PO7		
CO2	To elucidate the information processing process related to air traffic control	PO4, I	PO6, PO7		
CO3	To demonstrate effective communication and teambuilding strategies	PO2, PO	4, PO6, PO7		
CO4	To understand the Procedures, Circumstances and Background details	PO4, PO	5, PO6, PO7		
CO5	· ·				
	Reading List				
1.	https://courses.lumenlearning.com/suny-esc-communicationforprofessionals/chapter/interference-in-con				
2.	https://aim-india.aai.aero/sites/default/files/ais_docs/Doc%%20Human%20Factors%20Guidelines%20ATM%20Syste		0-		
3.	http://aviationlearning.net/files/HumanFactors%20AAt%20		<u>f</u>		
4.	https://www.researchgate.net/publication/270584102 Impruman_factors_in_a_safety_critical_ATM_organisation	oving the	mastery of h		

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	Reference Book			
	Investigating Human Error –Barry Strauch –Ashgate Publishing Limited Staffing			
1.	the ATM System –Hinnerk Eibfeldt, Mike C.Heil and Dana Broach –Ashgate			
	Publishing Limited.			
2.	Innovation and Consolidation in Aviation – GrahamEdkins and PeterPfister –			
۷.	Ashgate Publishing Ltd.			
3.	Air Traffic Control: Human Performance Factors –Anne R.Issac with Bert			
3.	Ruitenberg-Ashgate Publishing Ltd.			
4.	Michael S Nolan, Fundamentals of Air Traffic Control, Delmar Publication, 5 th			
4.	Edition, 2018			
5.	Air Traffic Control: Past, Present and Future., Sundara Mahalingam., Kaveri			
5.	Books.			
6.	Human Factors In Air Traffic Control., V. D. Hopkin.,2017, United			
0.	Kingdom: CRC Press.			

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1				3		3	3	
CO 2				3		3	3	
CO 3		3		3	3	3	3	
CO 4				3	3	3	3	
CO 5				3		3	3	

S-Strong M-Medium L-Low

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Subject Code	Subject Name	Category	L	Т	P	O	Credits	Inst. Hours	CIA	External	Total
934E901H	AIRCRAFT MAINTENANCE MANAGEMENT Elective 3 4 5							3	25	75	100
	Course (Objectives								1	
C 1	To learn about the goals of aircra			2							
C2	To understand the documents to										
C3	To study the production planning		ical	trai	nin	g					
C4	To study on basic maintenance c										
C5	To know the role of quality assur	rance and q	uali	ty c	ont	rol	_				
UNIT	Details							0. 0		Cou	
	AIRCRAFT MAINTANANCE	1					Н	lour	S	Objec	tives
I	Goals and Objectives of Mainten Maintenance-Reliability, Redesign. Establishing Maintena Introduction of Maintenance Steroup-Process and Task Oriente Maintenance Intervals Defined. Documentation for Maintenan Types of Documentation-Regular	nance: Type ance Progra ering ed Maintena	mm	e.			9			C	1
II	Documents- Airlines Generated Document Standards- Maintenar Engineering Organization.	Documents	- A'	ГΑ			9			C2	
III	Production Planning and Control Forecasting-Production Planning & Control. Feedback for Planning- Organization for PPC- Technical Publications-Functions of Technical Publication- Technical Training – Training for Aviation Maintenance.						9		C:	3	
IV	Maintenance Control Centre Responsibilities- Line maintenance operations. Maintenance crew skill requirement- Hamper maintenance activities- Maintenance overall shops (off aircraft)							9		C4	4

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V	Quality Assurance and Quality Control Requirement for Quality Assurance. Quality Audit-ISO 9000 Quality Standard- Reliability- Types of Reliability- Maintenance Safety-Safety Rules-Accident & Injury Reporting.	9	C5					
	Total	45						
	Course Outcomes	43						
Course Outcomes	On completion of this course, students will;							
CO1	To Understand the goals and objectives of aircraft maintenance	PO4, F	PO6, PO7					
CO2	Identify the documents to be maintained	PO4, F	PO6, PO7					
CO3	To know about the production planning and technical training PO4, PO6,		PO6, PO7					
CO4	To know the basic maintenance control	PO4, PO6, PO7						
CO5	Imbibe the role of quality assurance and quality control	PO4, PO6, PO7						
Reading List								
1.	https://www.softwaretestinghelp.com/quality-assurance-vs							
2.	https://www.interviewbit.com/blog/difference-between-qu quality-control/							
3.	https://ftmaintenance.com/maintenance-management/8-maobjectives/	nintenance-r	nanagement-					
4.	https://resources.workable.com/maintenance-worker-job-d	lescription						
	References Books							
1.	Aviation Maintenance Management-Harry A KinnisonMc							
2.	Risk Management And Error Reduction In A ManojS.Patankar and James C.Taylor-Ashgate Publishing		Maintenance-					
3.	Managing Maintenance Error-James Reason And Alan Ho							
4.	Introduction to Aircraft Maintenance. (2012). United Sta Resources.		Information					
5.	Delp, F., Watkins, W., Sterkenburg, R., Kroes, M. (2013). and Repair, Seventh Edition. United Kingdom: McGraw-F							
6.	Siddiqui, T., Kinnison, H. A. (2012). Aviation Mainter Second Edition. United Kingdom: McGraw-Hill Education	nance M	lanagement,					

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1				3		3	3	
CO 2				3		3	3	
CO 3		3		3	3	3	3	
CO 4				3	3	3	3	
CO 5				3		3	3	

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Subject Code	Subject Name	Category	L	Т	P	O	Credits	Inst. Hours	CIA	External	Total	
934E901I	AIRLINES INSURANCE	Elective	3	-	-	-	3	4 5	25	75	100	
		Objectives										
C1	To learn about the airline insurar											
C2	To understand the valuation and		func	d								
C3	To study the airline leasing and t											
C4	To have a basic knowledge of ris											
C5	To know the role of aviation insu	urance and	its p	rici	ng							
UNIT	Details							lo. o: Iour		Cou Objec		
I	AIRLINE FINANCE Introduction-need&importance-world airline financial resultsFactors affecting financial results-asset utilization-key financial issues- Airline financial ratio-performance earning ratio-risk solvency ratio- Liquidity ratio-stock market ratio-interairline comparison of financial ratio						ntroduction-need&importance-world airline financial esultsFactors affecting financial results-asset utilization-ey financial issues- Airline financial ratio-performance				1	
II	AIRLINE VALUATIONS FINANCE: The valuation of tangible and valuation of the airline as a wisources of internal and extern involved in airline finance- Temprofitand manufacturer's prepay	l intangible hole- Ratin nal finance m loan payr	e as ig a	sset: gen titu	s-th cies tion	e s-		9		C	2	
III	AIRCRAFT LEASING AND FINANCE: Finance lease-meaning, objectives, different type of leasing, major, differences between wet, sales and operating lease. Securitization of aircraftmeaning, purpose and advantage, airline traffic and financial forecasts-Airline capital expenditure projections and airline						9		C.	3		
IV	Financial requirement forecasts. PRINCIPLES OF INSURANCE AND RISK MANAGEMENT History of aviation insurance basic principal of insurance-basic terminologies in general insurance. Insurers-risk & insurance-risk management.						9		C	4		
V	AVIATION INSURANCE: Aircraft hull and liability insurar	nce-sample	poli	icy	and			9		C:	5	

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	endorsement-airport premise liability and other aviation					
	coverage- Underwriting and pricing aviation risk-					
	aviation business property insurance and transport					
	insurance.					
	Total	45				
	Course Outcomes					
Course Outcomes	On completion of this course, students will;					
CO1	They understand about the airline insurance	PO4, F	PO6, PO7			
CO2	Identify the valuation and sources of fund	PO4, F	PO6, PO7			
CO3	Understand the airline leasing and financing	PO4, F	PO6, PO7			
CO4	To have a basic knowledge of risk management	PO4, P	PO6, PO7			
CO5	To know the role of aviation insurance and its pricing	insurance and its pricing PO4, PO6, PO7				
	Reading List					
1.	https://www.oecd.org/daf/fin/insurance/4.DavidGasson-back					
	https://en.wikipedia.org/wiki/Aviation_insurance#:~:text=					
2.	%20provides%20coverage%20for,damage%20caused%20	by%20airci	aft%20accid			
	ents.					
3.	https://www.bankbazaar.com/miscellaneous-insurance/avia					
4.	https://avioninsurance.com/the-importance-of-getting-an-a	viation-inst	<u>irance/</u>			
	References Books					
	1. M.N.Mishra:Insurance principles and practices references					
	2. Peter.S.Morrel,AirlineFinance,Ashgate					
3. P.Periyasamy: Principles and practices of insurance						
4.	Gail F Butler & Martin R Keller,-Airline Finance, McGraw Hill					
5.	Alexander.T.Wells&Bruce.D,Aviation Insurance and Risk Mana					
6.	Introduction to Aviation Insurance and Risk Mana, States: Krieger Pub	gement. (20	007). United			

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1				3		3	3	
CO 2				3		3	3	
CO 3		3		3	3	3	3	
CO 4				3	3	3	3	
CO 5				3		3	3	

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The students will be Evaluated and Assessed on all the courses as given below:

Methods of Evaluation								
	Continuous Internal Assessment Test							
Internal Evaluation	Assignments	25 Marks						
Internal Evaluation	Seminars	23 Warks						
	Attendance and Class Participation							
External	End Semester Examination	75 Marks						
Evaluation	End Semester Examination	75 Warks						
	Total 100 Marks							
Methods of Assessment								
Recall (K1)	Simple definitions, MCQ, Recall steps, Concept	Simple definitions, MCQ, Recall steps, Concept definitions						
Understand/	MCQ, True/False, Short essays, Concept explana	ations, Short summary or						
Comprehend (K2)	overview							
Application (K3)	Suggest idea/concept with examples, Suggest formulae, Solve problems,							
Application (K3)	Observe, Explain							
Analyza (K4)	Problem-solving questions, Finish a proce	edure in many steps,						
Analyze (K4) Differentiate between various ideas, Map knowledge								
Evaluate (K5)	Longer essay/ Evaluation essay, Critique or justin	fy with pros and cons						
Create (K6)	Check knowledge in specific or offbeat situatio	ns, Discussion, Debating						
Create (K6)	or Presentations							

Evaluation and Assessment

The students will be Evaluated and Assessed on all the courses as given below:

Methods of Evaluation							
	Continuous Internal Assessment Test						
Internal Evaluation	Assignments	25 Marks					
Internal Evaluation	Seminars	23 Warks					
	Attendance and Class Participation						
External	End Semester Examination	75 Marks					
Evaluation	End Semester Examination	73 Warks					
	Total	100 Marks					
Methods of Assessment							
Recall (K1)	Simple definitions, MCQ, Recall steps, Concept	definitions					
Understand/	MCQ, True/False, Short essays, Concept explana	ations, Short summary or					
Comprehend (K2)	overview						
Application (K3)	Suggest idea/concept with examples, Suggest formulae, Solve problems,						
Application (IX3)	Observe, Explain						
Analyze (K4)	Problem-solving questions, Finish a proce	edure in many steps,					
Allalyze (K4)	Differentiate between various ideas, Map knowledge						
Evaluate (K5)	Longer essay/ Evaluation essay, Critique or justin	fy with pros and cons					
Create (K6)	Check knowledge in specific or offbeat situatio	ns, Discussion, Debating					
Create (NO)	or Presentations						