

Rathinam College of Arts & Science (Autonomous), Coimbatore-21.

Admitted in BBA Aviation Management from the academic year 2024-2025 Onwards

Regulations 2024

**DEPARTMENT OF MANAGEMENT**

**RATHINAM COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**

RathinamTechzone, Pollachi Road, Eachanari, Coimbatore – 641021



**Curriculum for**

**B.B.A. Aviation Management**

## **VISION AND MISSION OF THE INSTITUTION**

### **VISION**

To emerge as a world-renowned Institution that is integrated with Industry to impart Knowledge, Skills, Research Culture and Values in youngsters who can accelerate the overall development of India.

### **MISSION**

To provide quality education at affordable cost, build academic and research excellence, maintain eco-friendly and robust infrastructure, and to create a team of well qualified faculty who can build global competency and employability among the youth of India.

### **MOTTO**

Transform the youth into National Asset.

## **VISION AND MISSION OF THE DEPARTMENT**

### **VISION**

To establish the Management Department as a dynamic and continually evolving center of excellence, dedicated to providing students with a transformative learning experience. Our aim is to nurture global leaders who not only excel in business but also contribute significantly to the growth of society and the nation."

### **MISSION**

Empower students to become agile, forward-thinking leaders who drive positive change in the business world, contribute to the betterment of society, and foster economic growth and prosperity on a national and global scale.

## **Program Educational Objectives (PEO)**

<b>PEO1:</b>	Pursue a career as a globally competent and universally employable professional in core and related fields in diverse sectors who accelerates the overall development of India.
<b>PEO2:</b>	Pursue lifelong learning opportunities including graduate degrees to improve and expand domain specific and professional skills.
<b>PEO3:</b>	Advance personally and professionally by accepting professional and societal responsibilities, and pursuing leadership roles.

**Mapping of Institute's Mission to PEO**

Institute's Mission	PEO's
To provide quality education at affordable cost, build academic and research excellence maintain eco-friendly and robust infrastructure, and	PEO1, PEO2
To create a team of well qualified faculty who can build global competency and employability among the youth of India.	PEO2, PEO3

**Mapping of Department Mission to PEO**

Department Mission	PEO's
Imparting critical thinking	PEO 1, PEO 2
Enhancing research skills	PEO 1, PEO 2
Developing professionalism	PEO 2, PEO 3,
Viable technical knowledge and core competency	PEO 1. PEO 3

**Program Outcomes (PO):**

<b>PO1</b>	: Demonstrate knowledge competency in core discipline
<b>PO2</b>	: Apply the appropriate knowledge and suitable skills in solving the complex problems
<b>PO3</b>	: Conduct investigations of complex problems through various scientific approaches
<b>PO4</b>	: Design solutions for complex and open ended real-life or real-time problems
<b>PO5</b>	: Use appropriate and advanced tools for wide range of practices with an understanding on its associated limitations
<b>PO6</b>	: Work effectively and responsibly as a member or a leader in a team
<b>PO7</b>	: Express complex concepts within the profession and with society at large
<b>PO8</b>	: Understand the professional roles and responsibilities
<b>PO9</b>	: Analyze social and environmental aspects of the professional practices
<b>PO10</b>	: Practice higher moral and ethical standards during the discharge of professional duties
<b>PO11</b>	: Incorporate finer finance and business practices in all professional engagements
<b>PO12</b>	: Identify and address their professional development through lifelong learning

**Program Specific Outcomes (PSO)**

<b>PSO 1</b>	The program focuses on developing students' management skills specific to the aviation sector, such as airport operations management, airline management, aviation safety and security, aviation economics, and aviation law and regulations.
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<b>PSO 2</b>	The program aims to cultivate leadership qualities in students, preparing them to take on management roles within aviation organizations, lead diverse teams, and drive innovation and change in the industry.
<b>PSO 3</b>	The program focuses on developing students' analytical and problem-solving skills, enabling them to analyse complex aviation issues, evaluate strategic alternatives, and make data-driven decisions to address operational challenges and improve performance.

### Correlation between the PO/PSO and the PEOs

Program Outcomes		PEO 1	PEO 2	PEO 3
<b>PO 1</b>	:	3	1	3
<b>PO 2</b>	:	3	2	3
<b>PO 3</b>	:	1	2	3
<b>PO 4</b>	:	3	1	3
<b>PO 5</b>	:	3	3	2
<b>PO 6</b>	:	2	3	3
<b>PO 7</b>	:	2	3	1
<b>PO 8</b>	:	3	2	1
<b>PO 9</b>	:	2	2	3
<b>PO 10</b>	:	3	2	1
<b>PO 11</b>	:	2	1	1
<b>PO 12</b>	:	3	2	2
<b>PSO 1</b>	:	2	3	1
<b>PSO 2</b>	:	3	2	2
<b>PSO 3</b>	:	2	3	3

3 – Strong correlation; 2-moderate correlation; 1-Less correlation; Blank-no correlation

### Components considered for Course Delivery is listed below:

- Class room Lecture
- Laboratory class and demo
- Assignments
- Mini Project
- Project
- Online Course
- External Participation
- Seminar
- Internship

### Mapping of POs with Course Delivery:

Program Outcome	Course Delivery								
	a	b	c	d	e	f	g	h	i
P01	3	3	1	1	2	1	3	3	1
P02	3	3	2	3	3	1	1	2	3
P03	3	3	1	3	1	1	1	2	3
P04	2	3	2	3	3	1	1	3	1
P05	3	2	1	3	1	3	3	3	3

PO6	2	3	1	3	3	1	2	3	3
PO7	2	3	1	3	1	1	2	3	3
PO8	2	2	1	2	3	3	2	3	3
PO9	1	1	2	3	3	3	2	3	3
PO10	2	1	2	3	2	2	2	2	2
PO11	1	1	2	2	2	3	3	3	3
PO12	1	2	3	2	2	2	3	3	3
PS01	2	3	1	3	2	3	1	3	3
PS02	3	2	2	3	3	2	2	3	2
PS03	2	3	3	2	2	3	3	2	3

3 – Strong correlation; 2-moderate correlation; 1-Less correlation; Blank-no correlation

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**RATHINAM COLLEGE OF ARTS AND SCIENCE  
(AUTONOMOUS)  
BBA AVIATION DEGREE PROGRAMME  
BBA (AVIATION) Curriculum Structure -  
Regulation – 2024  
(For students admitted from 2024-2025 and onwards)**

S.No.	Sem	Part	Sub Type	Course Code	Course Name	Credit	Hours	INT	EXT	Total
1	1	1	L1		Language - I	3	5	50	50	100
2	1	2	L2		English - I	3	5	50	50	100
3	1	3	Core		Core Course – I Theory	4	5	50	50	100
4	1	3	Core		Core Course – II Theory / Practical	4	4	50	50	100
5	1	3	Allied		Allied-I	4	5	50	50	100
6	1	4	SEC		Skill Enhancement Courses – I Practical / Training	4	4	50	50	100
7	1	4	AEC		Ability Enhancement Course I Environmental Studies or Universal Human Values & Professional Ethics	2	2	50	0	50
						<b>24</b>	<b>30</b>	<b>350</b>	<b>300</b>	<b>650</b>
1	2	1	L1		Language - II	3	5	50	50	100
2	2	2	L2		English - II	3	5	50	50	100
3	2	3	Core		Core Course – III Theory	4	5	50	50	100
4	2	3	Core		Core Course – IV Theory / Practical	4	4	50	50	100
5	2	3	Elective		Elective - I	4	4	50	50	100
6	2	3	Allied		Allied-II	4	5	50	50	100
7	2	4	AEC		Ability Enhancement Course II Design Thinking	2	2	50	0	50

8	2	5	Ext		Extension Activity - I (NASA)	1	0	25	0	25
						<b>25</b>	<b>30</b>	<b>375</b>	<b>300</b>	<b>675</b>
1	3	1	L1		Language - III	3	4	50	50	100
2	3	2	L2		English - III	3	4	50	50	100
3	3	3	Core		Core Course – V Theory	4	6	50	50	100
4	3	3	Core		Core Course – VI Theory / Practical	4	4	50	50	100

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5	3	3	Allied		Allied-III	4	5
6	3	4	SEC		Skill Enhancement Courses – II Practical / Training	4	5
7	3	4	AEC		Ability Enhancement Course III Soft Skill-1	2	2
8	3	3	ITR		Internship / Industrial Training (Summer vacation at the end of II semester activity)	2	0
9	3	5	Ext		Extension Activity - II (NASA)	1	0
						<b>27</b>	<b>30</b>
1	4	1	L1		Language - IV	3	4
2	4	2	L2		English - IV	3	4
3	4	3	Core		Core Course – VII Theory	4	6
4	4	3	Core		Core Course – VIII Theory / Practical	4	4
5	4	3	Allied		Allied-IV	4	5
8	4	3	Elective		Elective - II	4	5
7	4	4	AEC		Ability Enhancement Course IV Soft Skill-2	2	2
8	4	5	Ext		Extension Activity - III (NASA)	1	0

						25	30
1	5				Out Bound Training - I	20	
2	5				Extension Activity - IV (NASA)	1	0
						21	
1	6				Out Bound Training - II	20	
					<b>Total credit</b>	<b>142</b>	<b>12</b>

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#### Core - Theory

S.No.	Sem	Pre-requisite	Course Code	Course Name	Offering Department	Type Theory / Practical
1	1	HSC		Principles of Management	Management	Theory
2	2	Airport		Organizational Behaviour	Management	Theory
3	3	Airline		Introduction to Airline Management	Management	Theory
4	4	Air cargo Operation		Airline Human Recourse Management	Management	Theory

#### Core - Theory / Practical

S.No	Sem	Pre-requisite	Course Code	Course Name	Offering Department	Type Theory / Practical
1	1	HSC		Fundamentals of Aviation	Management	Theory
2	2	Aviation		Airport and Aviation Management	Management	Theory



3	3	Air cargo		Introduction to Aircraft Management	Management	Theory
4	4	Air cargo Operation		Cost and Cash Management	Management	Theory

**Allied**

S.No	Sem	Pre-requisite	Course Code	Course Name	Offering Department	Type Theory / Practical
1	1	HSC		Business Mathematics	Mathematics	Theory
2	2	HSC		Quantitative techniques	Mathematics	Theory
3	3	Aviation		Airline Revenue Management	Management	Theory
4	4	HSC		Research Methodology	Management	Theory

**Skill Enhancement Course**

S.No.	Sem	Pre-requisite	Course Code	Course Name	Offering Department	Type Practical / Training
1	1	HSC		Financial Accounting	Management	Theory
2	3	Aviation		Supply Chain Management	Management	Theory

**Elective**

S. No.	Sem	Pre-requisites	Course Code	Course Name	Offering Department	Type Practical / Training
1	2	HSC		Strategic Management	Management	Theory
2	4	HSC		Legal aspects of Law and Regulations in Aviation Management	Management	Theory

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Parts	Sem I	Sem II	Sem III	Sem IV	Sem V	Sem VI	Total Credits
Part I	3	3	3	3			12
Part II	3	3	3	3			12
Part III	12	16	14	16	20	20	98
Part IV	6	2	6	2			16
Part V		1	1	1	1		4
<b>Total</b>	<b>24</b>	<b>25</b>	<b>27</b>	<b>25</b>	<b>21</b>	<b>20</b>	<b>142</b>

**Additional Credits**

S.No.	Sem	Part	Sub Type	Course Code	Course Name	Credit	Hours	INT	EXT	Total
1	2	6	VAC		VAC - Microsoft CoE Course / NPTEL	2	2	50	0	50
3	4	6	IDC		VAC - Microsoft CoE Course / NPTEL	2	2	50	0	50
4	5	6	VAC		VAC - Microsoft CoE Course / NPTEL	2	2	50	0	50

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Course Code	Couse Title	Credit	Lecture	Tutorial	Practical	Type
24BAV1CA	Principles of Management	4	5	-	-	Theory
<b>Course Objective:</b>						
To provide students with a comprehensive understanding of the fundamental principles and practices of management.						
<b>Course Outcomes</b>	On completion of this course, students will					
<b>CO 1:</b>	Understand the Fundamentals of Management					
<b>CO 2:</b>	Develop Planning and Decision-Making Skills					
<b>CO 3:</b>	Understand Organizational Structures and Processes					
<b>CO 4:</b>	Develop Skills in Staffing and Directing					
<b>CO 5:</b>	Master Co-ordination and Controlling Techniques					
<b>Unit I:</b>	<b>Introduction to Management</b>					<b>[12 Periods]</b>
Management: Meaning – Definitions –Nature – Scope Distinction between Management and Administration. Management: A science or an art – Functions of Management- Levels of Management - Roles and Skills of a Manager- The evolution of Management Theory-(Henry Fayol, F.W. Taylor, Elton Mayo.)						
<b>Unit II:</b>	<b>Planning and Decision Making</b>					<b>[12 Periods]</b>
Planning: Definition – Nature and Characteristics of Planning – Importance –Planning process- Types of Plans – Limitations. MBO-Definition –Process of MBO- Pros & Cons. Decision making: concept of decision and decision making - Decision making process - Types of Decisions – Environmental factors affecting management Decisions.(Globalization, Diversification and Technology)						
<b>Unit III:</b>	<b>Organizing</b>					<b>[12 Periods]</b>
Organizing: Meaning- Definition -Nature & Importance - Types of Organization – Organizational structure - Span of control. Delegation: Meaning – importance - Centralization Vs Decentralization. Departmentation: Meaning –Bases of Departmentation						
<b>Unit IV:</b>	<b>Staffing &amp; Directing:</b>					<b>[12 Periods]</b>
Staffing: Meaning – Definition- Objectives, Factors affecting. Staffing. Directing: Meaning Nature - Importance–principles – Elements of Directing						
<b>Unit V:</b>	<b>Co-ordination &amp; Controlling:</b>					<b>[12 Periods]</b>
Co-ordination: Meaning Principles & Effective Coordination Techniques-Controlling: Definition – Characteristics of control – Steps in controlling – Controlling Techniques –Computers as management Tools – Recent Trends in Management						
<b>Text Books:</b>						
1. Harold Knootz, Heinz Weinrich, Essential of Management, 6th Edition, Tata MC Graw Hill publishing company Ltd						

<b>Reference Books:</b>
1. P.C.Tripathy, P.N.Reddy, Principles of Management, 6th Edition, Tata MC Graw Hill publishing Company Ltd 2. . L.M.Prasad, Principles of Management, 5th Edition, Himalaya Publication.
<b>Web Resources:</b>
www.mindtools.com

**Mapping of Course Outcome with Programme Outcome and Programme Specific Outcome:**

Course Outcome	Programme Outcomes												Programme Specific Outcome		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	3	3	2	2	1	1	1	2	1	1	1	2	3	1
CO2	3	2	3	1	1	3	2	1	2	1	1	1	3	2	2
CO3	3	3	2	1	2	2	1	3	2	1	2	1	2	3	3
CO4	1	1	3	3	1	3	2	3	1	2	2	2	3	2	2
CO5	3	1	3	1	3	2	2	3	1	2	2	1	1	2	3

Course Code	Couse Title	Credit	Lecture	Tutorial	Practical	Type
24BAV1CB	Fundamentals of Aviation	4	4	-	-	Theory
<b>Course Objective:</b>						
To familiarize students with various career paths in the aviation industry, preparing them for professional opportunities by understanding industry expectations and standards.						
<b>Course Outcomes</b>	On completion of this course, students will					
<b>CO 1:</b>	Understand the Evolution of Aviation					
<b>CO 2:</b>	Learn the Fundamentals of the Aviation Industry					
<b>CO 3:</b>	Analyse the Role of Governing Bodies in Aviation					
<b>CO 4:</b>	Understand Airport and Airline Operations					
<b>CO 5:</b>	Master Grooming and Etiquette Standards in Aviation					
<b>Unit I:</b>	<b>History of Aviation</b>				<b>[12 Periods]</b>	
History of Aircraft- Early Experimentation- Gliders and Powered Flight, Wright Brothers Achievement, Early Aviation, World War, Golden Age Aircraft, World War II, Cold War and Commercial Aircraft, Modern Aircraft. Birth of aviation, The first flight, Wright brothers, Aviation evolution, New era of Aviation, Modern Aviation- History of Indian Aviation. Porter's five forces & PEST analysis.						

<b>Unit II:</b>	<b>Fundamentals of Aviation Industry</b>	<b>[12 Periods]</b>
Basic Fundamentals of Aviation Industry, Aviation Phonetics, Geographical segregation of Aviation Traffic, Traffic conference area, FIR Flight Information region, Indian FIR, Terms used in Aviation, Abbreviations in Aviation, Airport privatization.		
<b>Unit III:</b>	<b>Governing Bodies of Aviation</b>	<b>[12 Periods]</b>
ICAO & Its Function, IATA & its Function, Ministry of Civil Aviation, Directorate General of civil Aviation, Bureau of Civil aviation, Airports authority of India, Regional Connectivity Scheme, UDAN- Scheme, Aircraft Act 1934 & Aircraft rule 19, Conventions - Chicago convention, Warsaw convention, Federal Aviation Administration.		
<b>Unit IV:</b>	<b>Introduction to Airports &amp; Airlines</b>	<b>[12 Periods]</b>
Aerodrome & Airport, Types of Aerodrome, Classification of Airports, Types of Airports, Airline Introduction, Types of Airlines, Types of Carrier, Major Airlines in India, Airport Facilities & Amenities.		

<b>Unit V:</b>	<b>Airport Safety &amp; Security</b>	<b>[12 Periods]</b>
Airport Safety & Security – Meaning – Importance. Ramp Safety, Procedure for safe ground handling practices, Aircraft fuelling Interface, Aircraft parking & safety issues, Jet Blast, Aircraft training requirements.		
<b>Text Books:</b>		
Introduction to Aviation by Paul Illman		
<b>Reference Books:</b>		
Air Transportation: A Management Perspective by John G. Wensveen		
<b>Web Resources:</b>		
<a href="https://www.faa.gov/">https://www.faa.gov/</a>		

**Mapping of Course Outcome with Programme Outcome and Programme Specific Outcome:**

<b>Course Outcome</b>	<b>Programme Outcomes</b>	<b>Programme Specific Outcome</b>
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	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
<b>CO1</b>	3	3	3	2	2	1	1	1	2	1	1	1	2	3	1
<b>CO2</b>	3	2	3	1	1	3	2	1	2	1	1	1	3	2	2
<b>CO3</b>	3	3	2	1	2	2	1	3	2	1	2	1	2	3	3
<b>CO4</b>	1	1	3	3	1	3	2	3	1	2	2	2	3	2	2
<b>CO5</b>	3	1	3	1	3	2	2	3	1	2	2	1	1	2	3

Course Code	Couse Title	Credit	Lecture	Tutorial	Practical	Type
<b>24BAV1ZA</b>	<b>Financial Accounting</b>	<b>4</b>	<b>4</b>	<b>-</b>	<b>-</b>	<b>Theory</b>

**Course Objective:**

To enable students to acquire knowledge of accounting principles and practices, focusing on skill development, entrepreneurship, employability, and research.

Course Outcomes	
	On completion of this course, students will
<b>CO 1:</b>	Understanding Basic Accounting Principles
<b>CO 2:</b>	Recording Financial Transactions
<b>CO 3:</b>	Preparing Financial Statements
<b>CO 4:</b>	Understanding Depreciation and Inventory Management
<b>CO 5:</b>	Recognizing errors and adjustments in accounting



<b>Unit I:</b>	<b>Introduction to Accounting</b>	<b>[12 Periods]</b>
Meaning and definition of accounting - Objectives of Accounting - Basic Accounting concepts - Accounting conventions - Functions of Accounting - Limitations of Accounting - Accounting Process - Double Entry Book Keeping - Preparation of Journal and Ledger Accounts - Subsidiary books, including cash book Types of cash book.		
<b>Unit II:</b>	<b>Subsidiary Books and Trial Balance</b>	<b>[12 Periods]</b>
Subsidiary books, including Cash books (problems) - Trial balance - Suspense account - Types of errors - Rectification of errors (problems) - Bank reconciliation statement (problems).		
<b>Unit III:</b>	<b>Final Accounts and Depreciation</b>	<b>[12 Periods]</b>
Manufacturing and Trading Accounts - Profit and Loss Account - Balance Sheet (problems with simple adjustments) - Depreciation: Meaning and Methods (Straight line method and Written Down Value method).		
<b>Unit IV:</b>	<b>Accounting for Non-Trading Organizations</b>	<b>[12 Periods]</b>
Accounting for non-trading institutions - Income and Expenditure Account - Receipts and Payment Accounts - Depreciation: Straight line method and Written Down Value method (problems with simple adjustments).		
<b>Unit V:</b>	<b>Single Entry Systems</b>	<b>[12 Periods]</b>
Accounts from incomplete records - Single entry systems: Meaning and salient features - Distinction between single entry and double entry systems - Preparation of statement of affairs - Ascertainment of profit by net worth method - Conversion method - Problems related to the above.		
<b>Text Books:</b>		
T.S. Reddy & A. Moorthy – "Financial Accounting," Margham Publications, 7th Edition.		
<b>Reference Books:</b>		
Jain and Narang: Advanced Accountancy		
Shukla and Grewal: Advanced Accountancy		
<b>Web Resources:</b>		
<a href="http://www.accountingtools.com">www.accountingtools.com</a>		
<b>Mapping of Course Outcome with Programme Outcome and Programme Specific Outcome:</b>		

Course Outcome	Programme Outcomes												Programme Specific Outcome		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	3	3	2	2	1	1	1	2	1	1	1	2	3	1
CO2	3	2	3	1	1	3	2	1	2	1	1	1	3	2	2
CO3	3	3	2	1	2	2	1	3	2	1	2	1	2	3	3
CO4	1	1	3	3	1	3	2	3	1	2	2	2	3	2	2
CO5	3	1	3	1	3	2	2	3	1	2	2	1	1	2	3



Course Code	Course Title	Credit	Lecture	Tutorial	Practical	Type
24BAV2CA	Core - Organizational Behaviour	4	5	-	-	Theory

**Course Objective:**

This course provides an overview of the field of Organizational Behavior (OB) with a focus on understanding individual and group behavior within organizations. It aims to equip students with the foundational theories and practical applications of OB, which are essential for effective management and leadership in diverse organizational settings

Course Outcomes	On completion of this course, students will	
CO 1:	Understand the basics of organizational behaviour, its value, and the factors influencing individual differences.	
CO 2:	Explore how personality and perception shape people's behaviour at work.	
CO 3:	Learn motivational theories and how they help improve workplace dynamics.	
CO 4:	Understand what impacts job satisfaction and morale, and why these are important for employee well-being.	
CO 5:	Examine group behaviour, conflict resolution, and different leadership styles in organizations.	
<b>Unit I:</b>	<b>Organisational Behaviour:</b> Definition- Importance and Scope of Organizational Behaviour – Contributing disciplines to OB, Individual Differences - Intelligence tests - Measurement of Intelligence, Gender Differences.	<b>[12 Periods]</b>
<b>Unit II:</b>	<b>Personality:</b> Meaning, Types, Factors Influencing Personality. <b>Perception</b> – Factors affecting Perception. Motivation – Theories(Maslow's, Herzberg's, Mc Gregor, ERG) - Transactional Analysis.	<b>[12 Periods]</b>

<b>Unit III:</b>	<b>Job Satisfaction:</b> Meaning, Factors, Measurement of Job satisfaction. Morale – Importance. Employee Attitude and Behaviour – Job Enrichment and Job Enlargement.	<b>[12 Periods]</b>
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<b>Unit IV:</b>	<b>Group Dynamics, Conflict Management, and Workplace Diversity:</b> Group dynamics, Conflict Concepts, Types, Resolution of Conflict – Gender bias in work place.	<b>[12 Periods]</b>
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<b>Unit V:</b>	<b>Leadership styles:</b> Types – Theories (Managerial Grid, Trait Theory, Situational Theory, Fiedlers Contingency Model) - Comparison of Indian Leadership style with other countries.	<b>[12 Periods]</b>
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<b>Text Books:</b>		
□ Stephen P. Robbins, Timothy A judge & Seema Sanghi - “Organizational Behaviour”, Pearson Education Ltd.		

<b>Reference Books:</b>		
1. Fred Luthan - “Organizational Behaviour” McGraw Hill		
2. Dwivedi R.S - “Human Relations & Organizational Behaviour – a global perspective, Macmillan India Ltd, Delhi		
3. Prasad.L.M - “Organizational Behaviour”		
4. Shashi K.Gupta-“Organizational Behaviour” Kalyani Publishers.		

<b>Web Resources:</b>		
<a href="https://archive.nptel.ac.in/courses/110/106/110106145/">https://archive.nptel.ac.in/courses/110/106/110106145/</a>		

<b>Mapping of Course Outcome with Programme Outcome and Programme Specific Outcome:</b>		
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Course Outcome	Programme Outcomes												Programme Specific Outcome		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	3	3	2	2	1	1	1	2	1	1	1	2	3	1
CO2	3	2	3	1	1	3	2	1	2	1	1	1	3	2	2
CO3	3	3	2	1	2	2	1	3	2	1	2	1	2	3	3

<b>CO4</b>	1	1	3	3	1	3	2	3	1	2	2	2	3	2	2
<b>CO5</b>	3	1	3	1	3	2	2	3	1	2	2	1	1	2	3

Course Code	Couse Title	Credit	Lecture	Tutorial	Practical	Type
<b>24BAV2CB</b>	<b>Airport and Aviation Management</b>	4	4	-	-	Theory

**Course Objective:**

The Airport and Airlines Management course introduces the fundamentals of airport and airline operations, focusing on key aspects like airport infrastructure, flight scheduling, passenger services, and safety regulations. Students will explore the roles of various industry stakeholders and understand the regulatory framework that governs aviation. The course prepares students for careers in the dynamic aviation sector.

Course Outcomes	On completion of this course, students will
<b>CO 1:</b>	Understand the basic structure and key players of the aviation industry.
<b>CO 2:</b>	Recognize the main functions and services provided at airports.
<b>CO 3:</b>	Understand how airlines manage flight schedules, services, and fleet operations.
<b>CO 4:</b>	Grasp the basic functions of air traffic control and flight safety measures.
<b>CO 5:</b>	Understand the basic laws, regulations, and security practices in aviation.

<b>Unit I:</b>	<b>INTRODUCTION TO THE AVIATION INDUSTRY</b> Overview of the Aviation Industry - Key Players in the Aviation Sector - Types of Airlines - Economic Impact of Aviation - Global Aviation Regulatory Framework	<b>[12 Periods]</b>
<b>Unit II:</b>	<b>AIRPORT OPERATIONS AND MANAGEMENT</b> Airport Layout and Infrastructure - Airport Functions and Services - Types of Airports - Airport Security - Environmental Considerations in Airport Management	<b>[12 Periods]</b>
<b>Unit III:</b>	<b>AIRLINE OPERATIONS AND MANAGEMENT</b> Airline Structure and Organization - Flight Scheduling and Route Planning - Fleet Management - Passenger Services - Revenue Management - Cargo Operations - Crew Management	<b>[12 Periods]</b>

<b>Unit IV:</b>	<b>AIR TRAFFIC CONTROL (ATC) AND FLIGHT SAFETY</b> Role and Structure of Air Traffic Control - Flight Safety Measures - Communication in Aviation - Aircraft Navigation Systems - Weather and Flight Safety - Incident and Accident Reporting	<b>[12 Periods]</b>
<b>Unit V:</b>	<b>AVIATION LAW, REGULATIONS, AND SECURITY</b> Introduction to Aviation Law - Key International Aviation Organizations - Regulatory Bodies and Their Role - Aviation Safety Regulations - Airport Security Regulations - Passenger Rights and Complaints - Environmental Laws in Aviation	<b>[12 Periods]</b>
<b>Text Books:</b>		
<ol style="list-style-type: none"> <li><b>Airline and Airport Operations</b> by Edissa Uwayo, published by <b>Notion Press</b></li> <li><b>Aviation and Airline Management</b> by Rambabu Athota, also by <b>Notion Press</b></li> </ol>		
<b>Reference Books:</b>		
<ol style="list-style-type: none"> <li><b>Airline Operations Control</b> by Peter J. Bruce and Chris Mulholland, published by <b>Routledge</b></li> </ol>		
<b>Web Resources:</b>		
<ol style="list-style-type: none"> <li><a href="https://www.amecet.in/airport-management-course-details.php">https://www.amecet.in/airport-management-course-details.php</a></li> </ol>		
<b>Mapping of Course Outcome with Programme Outcome and Programme Specific Outcome:</b>		

Course Outcome	Programme Outcomes												Programme Specific Outcome		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	3	3	2	2	1	1	1	2	1	1	1	2	3	1
CO2	3	2	3	1	1	3	2	1	2	1	1	1	3	2	2
CO3	3	3	2	1	2	2	1	3	2	1	2	1	2	3	3
CO4	1	1	3	3	1	3	2	3	1	2	2	2	3	2	2
CO5	3	1	3	1	3	2	2	3	1	2	2	1	1	2	3

Course Code	Couse Title	Credit	Lecture	Tutorial	Practical	Type
24BAV2EA	Elective - Strategic Management	4	4	-	-	Theory
<p><b>Course Objective:</b>                      Strategic Management is a comprehensive course that explores the art and science of formulating, implementing, and evaluating cross-functional decisions to achieve organizational objectives. It equips learners with tools to analyze competitive environments, align resources, and drive sustainable growth. This course fosters strategic thinking essential for navigating complex business landscapes.</p>						
<b>Course Outcomes</b>	On completion of this course, students will					
<b>CO 1:</b>	Understand strategic management concepts					
<b>CO 2:</b>	Analyze competitive environments					
<b>CO 3:</b>	Develop strategic decision-making skills					



<b>CO 4:</b>	Master techniques for effectively utilizing organizational resources to gain a competitive edge	
<b>CO 5:</b>	Explore strategies to ensure long-term success and adaptability in dynamic business environments	
<b>Unit I:</b>	<b>Strategic Management</b>	<b>[12 Periods]</b>
Introduction to strategic management: Definition, nature, scope, significance-Strategic Vision and Mission, Objectives and goals, elements and processes. Ethics and social responsibility.		
<b>Unit II:</b>	<b>Strategic Formulation</b>	<b>[12 Periods]</b>
Strategic Formulation: Corporate Mission: Need- Formulation, Objectives, and Classification. Strategic Planning: Meaning and definition, nature and Importance- strategic planning Process, strategic decision making.		
<b>Unit III:</b>	<b>Environmental Analysis</b>	<b>[12 Periods]</b>
Environmental Analysis - Environmental Scan –Internal Environment and External Environment & SWOT Analysis. Value Chain Analysis – Benchmarking- Six sigma-7’S Framework.		
<b>Unit IV:</b>	<b>Strategy</b>	<b>[12 Periods]</b>
Choice of Strategy: BCG matrix - G.E matrix - Corporate level Generic Strategies: Stability,		

Expansion, Retrenchment and Combination Strategies.															
<b>Unit V:</b>		<b>Implementation</b>										<b>[12 Periods]</b>			
Strategy Implementation: Meaning and Definition, Process-Approaches- Factors. Criteria for Evaluation and Control - Global issues in strategic management – Global challenges, strategies for competing in global markets & local markets.															
<b>Text Books:</b>															
Strategic Management: Concepts and Cases by Fred R. David, Forest R. David (Latest Edition)															
<b>Reference Books:</b>															
Competitive Strategy: Techniques for Analyzing Industries and Competitors by Michael E. Porter															
<b>Web Resources:</b>															
<a href="https://strategicmanagementinsight.com/">https://strategicmanagementinsight.com/</a>															
<b>Mapping of Course Outcome with Programme Outcome and Programme Specific Outcome:</b>															
Course Outcome - me	Programme Outcomes												Programme Specific Outcome		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	3	3	2	2	1	1	1	2	1	1	1	2	3	1
CO2	3	2	3	1	1	3	2	1	2	1	1	1	3	2	2
CO3	3	3	2	1	2	2	1	3	2	1	2	1	2	3	3
CO4	1	1	3	3	1	3	2	3	1	2	2	2	3	2	2
CO5	3	1	3	1	3	2	2	3	1	2	2	1	1	2	3

Course Code	Couse Title	Credit	Lecture	Tutorial	Practical	Type
24BAV3CA	<b>INTRODUCTION TO AIRLNE MANAGEMENT</b>	4	4	0	0	Theory
<b>Course Objective:</b>						
This course aims to provide students with comprehensive knowledge of airline management, including the types of airliners, departmental standards, cost and revenue management, marketing, and the strategic role of alliances.						
<b>Course Outcomes</b>	On completion of this course, students will					
<b>CO 1:</b>	Understand the classifications of airliners and the major manufacturers					
<b>CO 2:</b>	Analyze airline organizational structures and compliance requirements					
<b>CO 3:</b>	Evaluate airline cost structures and cash management techniques					
<b>CO 4:</b>	Apply principles of revenue management and marketing strategies.					
<b>CO 5:</b>	Assess the impact and benefits of airline alliances and code-sharing agreements.					
<b>Unit I:</b>	<b>Types of Airliners and Manufacturers</b>					<b>[12 Periods]</b>
Types of Airliners and Manufacturers , Wide Body Airliners, Narrow Body Airliners , Regional Aircraft, Short-Haul and Feeder Liner Aircraft , Overview of Major Commercial Aircraft Manufacturers						
<b>Unit II:</b>	<b>Departmental Standards and Airline Organizational Structure</b>					<b>[12 Periods]</b>
Departmental Standards and Airline Organizational Structure , Departmental Standards and Compliance, Airline Organizational Structure, DGCA Requirements for Organizational Operations						
<b>Unit III:</b>	<b>Airline Cost and Cash Management</b>					<b>[12 Periods]</b>
Airline Cost and Cash Management , Breakdown of Airline Costs: Fixed and Variable, Cash Management Techniques and Forecasting, Fuel and Currency Hedging, Basics of Airline Finance						
<b>Unit IV:</b>	<b>Airline Revenue Management and Marketing</b>					<b>[12 Periods]</b>
Airline Revenue Management and Marketing, Pricing Policies, Ancillary Revenue, and Onboard Sales , Taxes and Fees in Airline Operations , PEST Analysis and Airline Marketing Strategies , Customer Segmentation, Customer Psyche, and Social Media Engagement						
<b>Unit V:</b>	<b>Airline Alliances and Strategic Planning</b>					<b>[12 Periods]</b>

**Airline Alliances and Strategic Planning**, Airline Alliances and Code Sharing, Benefits of Alliances for Airlines and Travellers, Airline Route and Network Planning, Strategic Decision-Making in Airline Operations

**Text Books:**

1. Doganis, R. (2019). *The Airline Business*. Routledge.
2. Shaw, S. (2016). *Airline Marketing and Management*. Routledge

**Reference Books:**

1. Belobaba, P., Odoni, A., & Barnhart, C. (2015). *The Global Airline Industry*. Wiley.
2. Holloway, S. (2017). *Straight and Level: Practical Airline Economics*. Routledge

**Web Resources:**

- International Air Transport Association (IATA): [www.iata.org](http://www.iata.org)
- Directorate General of Civil Aviation (DGCA): [www.dgca.gov.in](http://www.dgca.gov.in)

**Mapping of Course Outcome with Programme Outcome and Programme Specific Outcome:**

Course Outcome	Programme Outcomes												Programme Specific Outcome		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	3	2	2	1	1	1	2	1	1	1	2	3	1
CO2	3	2	3	1	1	3	2	1	2	1	1	1	3	2	2
CO3	3	3	2	1	2	2	1	3	2	1	2	1	2	3	3
CO4	1	1	3	3	1	3	2	3	1	2	2	2	3	2	2
CO5	3	1	3	1	3	2	2	3	1	2	2	1	1	2	3

Course Code	Couse Title	Credit	Lecture	Tutorial	Practical	Type
24BAV3CB	<b>INTRODUCTION TO AIR CRAFT MANAGEMENT</b>	4	4	-	-	<b>Theory</b>
<b>Course Objective:</b>						
This course aims to provide students with comprehensive knowledge of airline management, including the types of airliners, departmental standards, cost and revenue management, marketing, the strategic role of alliances, and the principles of aerodynamics and aircraft operation.						
<b>Course Outcomes</b>	On completion of this course, students will					
<b>CO 1:</b>	Understand the classifications of airliners, major manufacturers, and the principles of aerodynamics.					
<b>CO 2:</b>	Analyze airline organizational structures, compliance requirements, and aerodynamic controls.					
<b>CO 3:</b>	Evaluate airline cost structures, cash management techniques, and flight operation basics.					
<b>CO 4:</b>	Apply principles of revenue management, marketing strategies, and navigation methods.					
<b>CO 5:</b>	Assess the impact and benefits of airline alliances, strategic planning, and advanced aerodynamic theories.					
<b>Unit I:</b>	<b>Basics Theory of an Aircraft</b>					<b>[12 Periods]</b>
Basics Theory of an Aircraft, Aero-Physics in Aviation: Lift, Drag, Thrust, Weight, Control.						
<b>Unit II:</b>	<b>Aerodynamics in Aviation</b>					<b>[12 Periods]</b>

Aerofoil, Bernoulli's Principle, Boundary Layers, Turbulence, Aerodynamic Forces, Primary and Secondary Controls of Aircraft: Ailerons, Elevators, Rudder, Flaps, Slats, Spoilers, Trim Tabs, Brake.															
<b>Unit III:</b>		<b>Aircraft Controls and Dynamics</b>											<b>[12 Periods]</b>		
Primary and Secondary Controls of Aircraft, Ailerons, Elevators, Rudder, Flaps, Slats, Spoilers, Trim Tabs, Brakes, Aero-Dynamic Theories: Newton's Laws of Motion, Laminar Flow, Turbulence Flow, Boundary Layer Theory, Wing Theory, Angle of Attack, Vortex Theory, Shockwave Theory.															
<b>Unit IV:</b>		<b>Basics of Flight Operation</b>											<b>[12 Periods]</b>		
<b>Basics of Flight Operation</b> , Basics of Flying an Aircraft and Controls, Flight Instruments and Navigation.															
<b>Unit V:</b>		<b>Weather Recognition and avoidance</b>											<b>[12 Periods]</b>		
Weather Recognition and avoidance, Emergency Procedure, Air Traffic Control Communication and Procedures.															
<b>Text Books:</b>															
Anderson, J. D. (2016). <i>Introduction to Flight</i> . McGraw Hill Education.															
Kermode, A. C. (2017). <i>Mechanics of Flight</i> . Pearson															
<b>Reference Books:</b>															
Hurt, H. H. (2012). <i>Aerodynamics for Naval Aviators</i> . Skyhorse Publishing.															
Crouch, T. (2003). <i>Wings: A History of Aviation from Kites to the Space Age</i> . W. W. Norton & Company.															
<b>Web Resources:</b>															
<ul style="list-style-type: none"> <li>NASA Aerodynamics Research: <a href="https://www.nasa.gov/topics/aeronautics">https://www.nasa.gov/topics/aeronautics</a></li> <li>FAA Aerodynamics Handbook: <a href="https://www.faa.gov">https://www.faa.gov</a></li> <li>Aviation Today Articles: <a href="https://www.aviationtoday.com">https://www.aviationtoday.com</a></li> </ul>															
<b>Mapping of Course Outcome with Programme Outcome and Programme Specific Outcome:</b>															
Course Outcome	Programme Outcomes												Programme Specific Outcome		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	3	2	2	1	1	1	2	1	1	1	2	3	1
CO2	3	2	3	1	1	3	2	1	2	1	1	1	3	2	2
CO3	3	3	2	1	2	2	1	3	2	1	2	1	2	3	3
CO4	1	1	3	3	1	3	2	3	1	2	2	2	3	2	2
CO5	3	1	3	1	3	2	2	3	1	2	2	1	1	2	3

Course Code	Couse Title	Credit	Lecture	Tutorial	Practical	Type
24BAV3AA	Airline Revenue Management	4	4	0	0	Theory

**Course Objective:**

- **Understand Core Concepts:** Gain a strong foundation in airline revenue management, including its principles, strategies, and importance in the industry.
- **Develop Analytical Skills:** Learn to forecast demand, optimize pricing, and manage seat inventory and overbooking to improve operational efficiency.
- **Explore Innovations and Applications:** Study emerging trends, technologies, and real-world case studies to apply knowledge to practical challenges.

<b>Course Outcomes</b>	On completion of this course, students will	
<b>CO 1:</b>	Explain the basics of revenue management and its importance in the airline industry.	
<b>CO 2:</b>	Understand how to forecast passenger demand and manage bookings effectively.	
<b>CO 3:</b>	Apply pricing strategies to maximize airline revenue.	
<b>CO 4:</b>	Manage seat inventory and overbooking to optimize resources.	
<b>CO 5:</b>	Identify new trends and learn from real-world examples of revenue management.	
<b>Unit I:</b>	<b>Introduction to Airline Revenue Management</b>	<b>[12 Periods]</b>
Overview of Revenue Management: Definition, history, and importance in the airline industry - Economic Principles: Demand and supply, price elasticity, and market segmentation - Characteristics of the Airline Industry: Fixed capacity, perishable inventory, high fixed costs, and variable demand - Role of Revenue Management in Airlines: Profit maximization, operational efficiency, and customer satisfaction.		
<b>Unit II:</b>	<b>Forecasting in Airline Revenue Management</b>	<b>[12 Periods]</b>
Demand Forecasting: Methods and techniques (e.g., historical data analysis, trend analysis) - Passenger Booking Behavior: No-shows, cancellations, and overbooking - Data Analysis Tools: Role of data analytics in improving forecast accuracy - Challenges in Forecasting: Uncertainty, seasonality, and external disruptions.		
<b>Unit III:</b>	<b>Pricing Strategies and Revenue Optimization</b>	<b>[12 Periods]</b>
Dynamic Pricing: Principles and applications in the airline industry - Fare Structures: Pricing classes, fare rules, and restrictions - Competitive Pricing: Role of competition and market conditions in pricing decisions - Optimization Techniques: Linear programming and heuristics for revenue maximization.		
<b>Unit IV:</b>	<b>Inventory Control and Overbooking</b>	<b>[12 Periods]</b>
Seat Inventory Management: Allocation of seats across fare classes - Overbooking Models: Balancing cancellations and no-shows to maximize revenue - Risk Management in Overbooking: Handling customer dissatisfaction and compensation strategies - Tools and Software: Use of technology in managing inventory and overbooking.		
<b>Unit V:</b>	<b>Emerging Trends and Case Studies in Airline Revenue Management</b>	<b>[12 Periods]</b>
Technology in Revenue Management: Artificial intelligence, machine learning, and big data analytics - Customer-Centric Revenue Management: Personalization, loyalty programs, and ancillary revenue streams - Sustainability and Ethical Issues: Balancing profitability with social responsibility - Case Studies: Success stories and failures in airline revenue management.		
<b>Text Books:</b>		
1. “Airline Revenue Management: Current Practices and Future Directions” by Curt Cramer and Andreas Thams, 1st edition, published on 11 November 2021.		
<b>Reference Books:</b>		
1. Airline Revenue Management by IATA		
<b>Web Resources:</b>		



1. <https://pros.com/learn/blog/what-is-airline-revenue-management>
2. <https://www.revfine.com/airline-revenue-management/>
3. <https://www.fetcherr.io/blog/airline-revenue-management>

**Mapping of Course Outcome with Programme Outcome and Programme Specific Outcome:**

Course Outcome	Programme Outcomes												Programme Specific Outcome		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	3	2	2	1	1	1	2	1	1	1	2	3	1
CO2	3	2	3	1	1	3	2	1	2	1	1	1	3	2	2
CO3	3	3	2	1	2	2	1	3	2	1	2	1	2	3	3
CO4	1	1	3	3	1	3	2	3	1	2	2	2	3	2	2
CO5	3	1	3	1	3	2	2	3	1	2	2	1	1	2	3

Course Code	Couse Title	Credit	Lecture	Tutorial	Practical	Type
24BAV3ZA	Supply Chain Management	4	4	-	-	Theory
<b>Course Objective:</b>						
<ul style="list-style-type: none"> <li>Learn the basics of supply chain management in aviation.</li> <li>Understand how logistics, inventory, and procurement work in aviation.</li> <li>Explore new trends and sustainability in aviation supply chains.</li> </ul>						
<b>Course Outcomes</b>	On completion of this course, students will					
<b>CO 1:</b>	Understand the basics of supply chain management in aviation.					
<b>CO 2:</b>	Learn how logistics and inventory management work in aviation.					
<b>CO 3:</b>	Develop skills in managing procurement and supplier relationships in aviation.					
<b>CO 4:</b>	Identify risks and strategies to make aviation supply chains more resilient.					
<b>CO 5:</b>	Explore new trends and sustainability practices in aviation supply chains.					
<b>Unit I:</b>	<b>Introduction to Supply Chain Management in Aviation</b>					<b>[12 Periods]</b>
Overview of SCM: Definition, importance, and objectives in aviation - Key Components of Aviation Supply Chains: Airlines, airports, suppliers, and service providers - Characteristics of Aviation SCM: High-value assets, global operations, and regulatory compliance - Role of SCM in Aviation Efficiency and Cost Reduction.						
<b>Unit II:</b>	<b>Logistics and Inventory Management in Aviation</b>					<b>[12 Periods]</b>
Logistics in Aviation: Transportation modes, freight handling, and routing - Inventory Management: Spare parts, MRO (Maintenance, Repair, and Overhaul) supplies - Challenges in Aviation Logistics: Timesensitive deliveries and global coordination - Technology in Inventory Management: RFID, IoT, and ERP systems.						
<b>Unit III:</b>	<b>Procurement and Supplier Management</b>					<b>[12 Periods]</b>
Strategic Sourcing: Selection and evaluation of suppliers in aviation - Procurement Process: Contracts, compliance, and cost management - Supplier Relationship Management: Collaboration and risk mitigation - Sustainable Procurement Practices in Aviation.						
<b>Unit IV:</b>	<b>Risk Management and Resilience in Aviation Supply Chains</b>					<b>[12 Periods]</b>
Identifying Risks: Supply disruptions, geopolitical issues, and natural disasters - Risk Mitigation Strategies: Diversification, buffer inventory, and contingency planning - Building Resilience: Agile supply chains and responsive strategies - Case Studies: Handling disruptions in aviation supply chains.						
<b>Unit V:</b>	<b>Emerging Trends and Sustainability in Aviation SCM</b>					<b>[12 Periods]</b>
Technology Trends: AI, blockchain, and digital twins in SCM - Sustainability Practices: Carbon footprint reduction and green logistics - Future of Aviation Supply Chains: Autonomous systems and advanced analytics - Case Studies: Innovative supply chain strategies in aviation.						
<b>Text Books:</b>						

1. Supply Chain Integration Challenges in Commercial Aerospace: A Comprehensive Perspective on the Aviation Value Chain by Klaus Richter and Johannes Walther, 1st edition, published by Springer International Publishing on 21 December 2016.
2. Aviation Logistics: The Dynamic Partnership of Air Freight and Supply Chain by Michael Sales, 1st edition, published by Kogan Page on 3 February 2016.

**Reference Books:**

1. Aviation Logistics by Dr. R. Reena, Dr. P. Annamuthu, and Dr. R. Sangeetha, First Edition, published by Iterative International Publishers.

**Web Resources:**

1. <https://www.aerospheres.com/news/Best-Practices-in-Aviation-Supply-Chain-Management/?srsltid=AfmBOooDZmV2nioXHbKZYSUvFg1jplMexTztUB8ldtMxPIZXa6ARpKII>
2. <https://strategyresolve.com/aviation-supply-chain-management-best-practices-for-2024>
3. <https://www.compliancequest.com/bloglet/aerospace-supply-chain-management/>

**Mapping of Course Outcome with Programme Outcome and Programme Specific Outcome:**

Course Outcome	Programme Outcomes												Programme Specific Outcome		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	3	2	2	1	1	1	2	1	1	1	2	3	1
CO2	3	2	3	1	1	3	2	1	2	1	1	1	3	2	2
CO3	3	3	2	1	2	2	1	3	2	1	2	1	2	3	3
CO4	1	1	3	3	1	3	2	3	1	2	2	2	3	2	2
CO5	3	1	3	1	3	2	2	3	1	2	2	1	1	2	3

Course Code	Couse Title	Credit	Lecture	Tutorial	Practical	Type
24BAV4CA	<b>Airline Human Recourse Management</b>	4	6	-	-	Theory
<b>Course Objective:</b> Analyse HR functions specific to the airline industry. Develop strategies for recruitment, training, and performance management in airlines.						
<b>Course Outcomes</b>	On completion of this course, students will					
<b>CO 1:</b>	Understand the fundamentals of HRM in the context of the airline industry.					
<b>CO 2:</b>	Can explore the challenges and strategies in managing human resources in a global, serviceoriented, and high-stakes industry.					
<b>CO 3:</b>	understandKey Performance Indicators (KPIs) for airline employees, feedback and performance appraisal systems					
<b>CO 4:</b>	Analyse labour unions and collective bargaining in the airline industry					
<b>CO 5:</b>	Examine case studies and best practices for HRM in airlines.					
<b>Unit I:</b>	<b>Introduction to Airline HRM</b>  Overview of the airline industry, importance of HRM in aviation, key HR functions in airlines, globalization and cultural diversity in the airline workforce					<b>[12 Periods]</b>

<b>Unit II:</b>	<b>Recruitment, Selection, and Training</b>  Workforce planning and talent acquisition strategies, recruitment and selection processes for pilots, cabin crew, and ground staff, Training for compliance (e.g., safety, regulatory requirements),Soft skills development for customer service and leadership roles, use of simulators and virtual reality in training,	<b>[12 Periods]</b>
<b>Unit III:</b>	<b>Performance Management and Employee Well-being</b>  Key Performance Indicators (KPIs) for airline employees, feedback and performance appraisal systems, rewards, recognition, and motivation strategies, Work-life balance for shift-based roles, Stress management and health programs for airline employees,	<b>[12 Periods]</b>
<b>Unit IV: Labor</b>	<b>Relations and Technology in HRM [12</b>          <b>Periods]</b>  Labor unions and collective bargaining in the airline industry, Managing strikes and conflict resolution, employment laws and regulations in aviation, integration of HR technology (HRIS, AI tools),Predictive analytics and data-driven HR decisions	
<b>Unit V:</b>	<b>Future Trends and Case Studies in Airline HRM</b>  Diversity and inclusion initiatives in aviation, HRM strategies during crises (e.g., pandemics, economic downturns),Environmental sustainability and its impact on HR policies, Case studies of successful HR practices (e.g., Emirates, Delta, Singapore Airlines),Future of work in aviation: gig economy and remote roles.	<b>[12 Periods]</b>
<b>Text Books:</b> 1. <b>Human Resource Management in Aviation"</b> by Geraint Harvey  2. <b>Airline Management: Strategies for the 21st Century"</b> by John G. Wensveen  3. <b>Human Resource Management: Gaining a Competitive Advantage"</b> by Noe, Hollenbeck, Gerhart, and Wright		

**Reference Books:**

1. **Air Transport Management: An International Perspective"** by Lucy Budd and Stephen Ison
2. **Strategic Human Resource Management"** by Jeffrey A. Mello
3. **Managing People and Organizations in Changing Contexts"** by Graeme Martin

**Web Resources:**

Website: <https://www.iata.org>

Website: <https://www.caa.co.uk>

Website: <https://www.shrm.org>

**Mapping of Course Outcome with Programme Outcome and Programme Specific Outcome:**

Course Outcome	Programme Outcomes												Programme Specific Outcome		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	3	2	2	1	1	1	2	1	1	1	2	3	1
CO2	3	2	3	1	1	3	2	1	2	1	1	1	3	2	2
CO3	3	3	2	1	2	2	1	3	2	1	2	1	2	3	3
CO4	1	1	3	3	1	3	2	3	1	2	2	2	3	2	2
CO5	3	1	3	1	3	2	2	3	1	2	2	1	1	2	3

Course Code	Couse Title	Credit	Lecture	Tutorial	Practical	Type
24BAV4CB	Cost and Cash Management	4	4	-	-	Theory

**Course Objective:** This course aims to provide students with comprehensive knowledge of Cost and Cash Management, working capital management, emerging trends, technologies, and case studies to address modern challenges in cost and cash management.

<b>Course Outcomes</b>	On completion of this course, students will	
<b>CO 1:</b>	Understand the fundamental principles of cost and cash management and their importance in business operations.	
<b>CO 2:</b>	Analyse various cost structures and apply cost control and reduction techniques effectively.	
<b>CO 3:</b>	Evaluate and prepare cash flow statements to optimize liquidity and working capital.	
<b>CO 4:</b>	Develop financial strategies to manage costs and cash efficiently under different business scenarios.	
<b>CO 5:</b>	Explore emerging trends, technologies, and case studies to address modern challenges in cost and cash management.	
<b>Unit I:</b>	<b>Introduction to Cost and Cash Management</b>  Definitions, scope, and significance, role of cost and cash management in financial planning, types of costs: Fixed, variable, semi-variable, and marginal costs, components of cash management: Inflows, outflows, and working capital, relationship between cost and cash management.	<b>[12 Periods]</b>
<b>Unit II:</b>	<b>Cost Management Techniques</b>  Cost allocation and cost centres, Budgeting techniques: Fixed, flexible, and zero-based budgeting, Cost control vs. cost reduction, Activity-based costing (ABC) and its applications, Break-even analysis and contribution margin.	<b>[12 Periods]</b>
<b>Unit III:</b>	<b>Cash Flow and Working Capital Management</b>  Understanding and preparing cash flow statements, Classification of cash flows: Operating, investing, and financing activities, Liquidity management: Cash reserves, float, and cash buffers, Working capital optimization: Inventory, receivables, and payables, Cash forecasting and managing cash cycles.	<b>[12 Periods]</b>
<b>Unit IV:</b>	<b>Financial Decision-Making and Risk Management [12 Periods]</b>  Investment appraisal techniques: Net Present Value (NPV), Internal Rate of Return (IRR), and Payback Period, Managing cost of capital and funding sources, Short-term and long-term financing options, Risk management in cost and cash flow decisions, financial ratios and metrics for evaluating performance (e.g., current ratio, quick ratio).	

<b>Unit V:</b>	<b>Emerging Trends and Applications in Cost and Cash Management</b>	<b>[12 Periods]</b>
	Digital tools and technology for cost and cash management (e.g., ERP systems, AI, blockchain), Sustainability and cost management: Green cost-saving initiatives, Global cash management for multinational corporations. Case studies on cost and cash management in real-world scenarios, Future trends: Cashless economy, digital finance, and automation	

**Text Books:**

1. **Cost Accounting: Principles and Practice**, M.N. Arora, 2021, Vikas Publishing House
2. **Advanced Management Accounting**, Author: J. Madegowda, 2020,,Himalaya Publishing House
3. **Financial Management**. Prasanna Chandra, 2019, McGraw Hill Education

**Reference Books:**

1. **Cost and Management Accounting**, S.N. Maheshwari, 2020, Sultan Chand & Sons
2. **Accounting for Management: Jawahar Lal**, 2018, Himalaya Publishing House
3. **Working Capital Management"**, Hrishikesh Bhattacharya, 2017, PHI Learning Pvt. Ltd.

**Web Resources:**

1. Website: <https://www.icai.org>
2. Website: <https://taxguru.in>
3. Website: <https://www.indiastat.com>

**Mapping of Course Outcome with Programme Outcome and Programme Specific Outcome:**

Course Outcome	Programme Outcomes												Programme Specific Outcome		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	3	2	2	1	1	1	2	1	1	1	2	3	1
CO2	3	2	3	1	1	3	2	1	2	1	1	1	3	2	2
CO3	3	3	2	1	2	2	1	3	2	1	2	1	2	3	3
CO4	1	1	3	3	1	3	2	3	1	2	2	2	3	2	2
CO5	3	1	3	1	3	2	2	3	1	2	2	1	1	2	3



Course Code	Course Title	Credit	Lecture	Tutorial	Practical	Type
24BAV4AA	Research Methodology	4	5	-	-	Theory

**Course Objective:**

- Understanding Research Fundamentals: Develop a clear understanding of research concepts, types, and the role of research in solving real-world problems.
- Research Design and Data Collection: Learn to design research effectively, choose appropriate methodologies, and apply data collection techniques such as surveys, interviews, and sampling.
- Data Analysis and Interpretation: Gain skills to analyze data using statistical tools, interpret findings accurately, and present results visually.
- Ethical and Report Writing Skills: Adhere to ethical practices, avoid plagiarism, write structured research reports, and use proper citation standards.
- Practical Application and Innovation: Apply research techniques to real-world challenges, foster critical thinking, and develop creative, interdisciplinary research solutions.

<b>Course Outcomes</b>	On completion of this course	
<b>CO 1:</b>	Students will demonstrate a strong understanding of research fundamentals, types, and their applications in various fields.	
<b>CO 2:</b>	Students will be able to formulate research problems, design effective methodologies, and apply appropriate data collection techniques.	
<b>CO 3:</b>	Students will analyze and interpret data using statistical tools, effectively visualize findings, and communicate results clearly.	
<b>CO 4:</b>	Students will conduct research ethically, ensuring integrity, confidentiality, and proper citation practices in their work.	
<b>CO 5:</b>	Students will apply research outcomes to address real-world issues, demonstrate innovative thinking, and contribute to evidence-based decision-making.	
<b>Unit I:</b>	<b>Introduction to Research</b>	<b>[12 Periods]</b>
Research – Meaning – Importance – Objectives of Research - Types – Research Methodology vs Research Methods. Research Process – Problem Identification – Sources of Research Problems – Formulation of Research Problems.		
<b>Unit II:</b>	<b>Research Design &amp; Data Collection</b>	<b>[12 Periods]</b>



<b>CO1</b>	3	3	3	2	2	1	1	1	2	1	1	1	2	3	1
<b>CO2</b>	3	2	3	1	1	3	2	1	2	1	1	1	3	2	2
<b>CO3</b>	3	3	2	1	2	2	1	3	2	1	2	1	2	3	3
<b>CO4</b>	1	1	3	3	1	3	2	3	1	2	2	2	3	2	2
<b>CO5</b>	3	1	3	1	3	2	2	3	1	2	2	1	1	2	3

<b>Course Code</b>	<b>Course Title</b>	<b>Credit</b>	<b>Lecture</b>	<b>Tutorial</b>	<b>Practical</b>	<b>Type</b>
<b>24BAV4EA</b>	<b>Legal aspects of Law and Regulations in Aviation Management</b>	<b>4</b>	<b>5</b>	<b>-</b>	<b>-</b>	<b>Theory</b>
<b>Course Objectives:</b>						
<ul style="list-style-type: none"> <li>Understand the legal frameworks governing the aviation industry, both national and international.</li> <li>Familiarize with aviation-specific regulations, including the Montreal Convention and FAA guidelines.</li> <li>Examine contracts, liability issues, and dispute resolution in aviation.</li> <li>Emphasize the importance of regulatory compliance and safety standards.</li> <li>Explore labor and employment laws affecting aviation professionals.</li> </ul>						
<b>Course Outcomes</b>	<b>On completion of this course, students will</b>					
<b>CO 1:</b>	Understand the fundamental principles of business law as applied to the aviation industry					

<b>CO 2:</b>	Analyze the legal responsibilities and liabilities of aviation businesses	
<b>CO 3:</b>	Examine the key national and international business laws affecting aviation operations	
<b>CO 4:</b>	Evaluate regulatory compliance in aviation business activities	
<b>CO 5:</b>	Apply business law knowledge to resolve legal issues within the aviation context	
<b>Unit I:</b>	<b>INTRODUCTION TO BUSINESS LAW IN AVIATION</b>	<b>[12 Periods]</b>
<p>Meaning &amp; Definition of Business Law - Scope and Importance of Business Law in Aviation - Legal Framework and its significance for the aviation sector - Overview of key concepts: Contracts, Liability, Rights, and Obligations.</p>		
<b>Unit II:</b>	<b>CONTRACT LAW IN AVIATION</b>	<b>[12 Periods]</b>
<p>Basics of Contract Law: Offer, Acceptance, Consideration, and Capacity - Types of contracts relevant to aviation businesses (passenger, cargo, charter agreements) - Breach of contract and remedies available under aviation contract law - Liability of carriers under various contracts.</p>		
<b>Unit III:</b>	<b>EMPLOYMENT AND LABOUR LAW IN AVIATION</b>	<b>[12 Periods]</b>
<p>Overview of employment laws applicable in the aviation sector - Rights and duties of employers and employees in aviation - Legal requirements regarding wages, safety, and working conditions - Handling employee disputes and grievances.</p>		
<b>Unit IV:</b>	<b>CONSUMER PROTECTION LAW IN AVIATION</b>	<b>[12 Periods]</b>
<p>Consumer rights under aviation law - Passenger rights and protections (refunds, cancellations, delays, and compensation) - Handling of complaints and disputes with passengers - Role of regulatory bodies in protecting consumer interests.</p>		
<b>Unit V:</b>	<b>INTELLECTUAL PROPERTY AND DATA PRIVACY IN AVIATION</b>	<b>[12 Periods]</b>
<p>Intellectual Property Rights (IPR) in the aviation industry - Protection of brand identity, patents, trademarks, and copyrights - Data protection laws and privacy concerns in aviation - Regulatory compliance on data privacy (GDPR and other international standards).</p>		
<b>Text Books:</b>		
<p>"Aviation and the Law" by Laurence E. Gesell and Paul Stephen Dempsey, 5th Edition (2011), published by Coast Aire Publications</p>		
<b>Reference Books:</b>		
<p>"Fundamentals of Aviation Law" by Raymond C. Speciale, published in 2006 by McGraw-Hill</p>		

**Web Resources:**

<https://www.icao.int/Pages/default.aspx>

Mapping of Course Outcome with Programme Outcome and Programme Specific Outcome:

Course Outcome	Programme Outcomes												Programme Specific Outcome		
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
CO1	3	3	3	2	2	1	1	1	2	1	1	1	2	3	1
CO2	3	2	3	1	1	3	2	1	2	1	1	1	3	2	2
CO3	3	3	2	1	2	2	1	3	2	1	2	1	2	3	3
CO4	1	1	3	3	1	3	2	3	1	2	2	2	3	2	2
CO5	3	1	3	1	3	2	2	3	1	2	2	1	1	2	3