Master of Science Aviation Management.

Semester – 1

Paper No	Subject Name	Contents of Syllabi
Paper-I	PRINCIPLES AND PRACTICE OF MANAGEMENT -I	-Introduction. -Aviation Operation review- requirements. -Safety & Quality Management. -Aircraft Operations General. -Helicopter Operations. -Fixed - Wing Operations- Public- Transport & Aerial Work. -Fuel System Design & Management. -Training & Experience. -Passengers & Freight. -Aircraft Equipment Standards. -Airbases. -Emergency response Planning.
Paper-II	AIRCRAFT EQUIPMENT AND PROCESSES -I	-Bias Ply Aircraft Tire Construction. -Preventive Maintenance. -Mounting and Demounting. -Inspection, Storage and Shipping. -Retreading. -Aircraft Tire Properties. -Effects of Operating Conditions. -Aircraft Industrial Support facilities.
Paper-III	AVAITION ECONOMICS -I	-Executive Summary. -Overview of Indian Aviation. -Issues. -Opportunities. -Scaling New Heights. -Abbreviations.
Paper-IV	FLIGHT GUIDANCE INFORMATION SYSTEM-I	-Requirements relating to Aircraft- Safety. -Overview of a Flight Guidance System. -Fundamentals of the Mode Logic. -Overview of the Flight Guidance- System (FGS) Specification. -Prioritization of Events. -Basic Definitions. -Flight Director (FD). -Pilot Flying (PF). -Independent Mode. -Flight Modes.
Paper-V	AIR TIMETABLE AND TICKETING SERVICES-I	-Flight Reservation and Airline- Ticketing. -Airline Flight and Computerized- Reservation System. -Travel Agency and Airline Ticket- Booking. -Airport Check-in, Airport, Boarding- Pass, Arrival and Departure.

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Semester – 2

Paper No	Subject Name	Contents of Syllabi
Paper-I	PRINCIPLES AND PRACTICE OF MANAGEMENT -II	-Appendices. -Risk Assessment & risk reduction-opportunity ranking. -Withdrawn. -Duties & responsibilities of the Air-Operations Supervisor. -Training Courses- Air Operations-Supervisor. -Aviation Weather Guidelines. -Recommended Aircraft equipment fit. -Heliportable land seismic operations (issued as OGP Report N 420). -Winching (Hoisting) Operations. -Airborne Geophysical Survey. -Aerial Pipeline inspection. -Helicopters as a secondary search & -Rescue task. -Cold weather aircraft operations. -Night Operations.
Paper-II	AIRCRAFT EQUIPMENT AND PROCESSES -II	-Exterior Elements. -Common Functional Areas. -AMS Functional Areas. -AME-21 Functional Areas. -Interior Standards. -Case Study of Aircraft Wing-Manufacture. -The Rating Process for Aircraft- Financing. -Improvement in the Electric Sizing Process for Aircraft Applications.
Paper-III	AVAITION ECONOMICS -II	-Opportunities and Challenges. -Tax and Regulatory Framework in- India. -Building a Domestic Aerospace- Industrial Base. -FDI Aviation: Retrospection in the- Indian Economy. -Airline Economics.
Paper-IV	FLIGHT GUIDANCE INFORMATION SYSTEM-II	-Flight Control Laws. -Flight Control panel (FCP). -Navigation Sources. -Air Data System. -Autopilot (AP). -Offside FGS. -FGS Inputs. -FGS Outputs.

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Paper-V	AIR TIMETABLE AND TICKETING SERVICES-II	-Baggage Allowance, Claim and- Handling. -Travel Classes and Class Codes. -Frequent Flyer Programme and Other- Charter Flights. -Aircraft Seating, Airline Timetable, - Flight Cancellation & Related Regulation.

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Semester – 3

Paper No	Subject Name	Contents of Syllabi
Paper-I	AVIATION MARKETING MANAGEMENT -I	-Industry Definition. -Global Market. -Canadian Market. -Civil Aerospace Sector (Current Market overview and market key Industry trends). -Military Aerospace Sector (Current Market Overview and- Key Industry Trends). -Canada's Competitiveness. -2010-2020 Global Aerospace Forecast Model.
Paper-II	AIRCRAFT ACCIDENTS MITIGATION-I	-Factual Information of Flight and- Damage to Airplane. -Personnel Information. -Airplane Information. -Meteorological Information. -Aids to Navigation. -Communications -Airport Information. -Flight Recorders. -Wreckage and Impact Information. -Medical and Pathological Information. -Fire. -Survival Aspects. -Test and Research on Airplane- Performance Study. -Organizational and Management -Information on Operational Guidance. -Additional Information on Wild life- Strike Hazard Information. -Safety Recommendation from the- Accidents.
Paper-III	AIRPORTS MANAGEMENT-I	-Introduction. -Overview. -Ownership. -Organization. -Economic Structure. -Structure of Relationships. -Operations and Maintenance.
Paper-IV	NEW DIMENSIONS OF AVIATION MANAGEMENT-I	-Introduction. -Aviation Growth and Impacts on the- Global Atmosphere. -Historical Trends in Aircraft- Performance and Cost. -Parametric Modeling of Technology- Operability- Fuel Economy- Relationships.

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Semester – 4

Paper No	Subject Name	Contents of Syllabi
Paper-I	AVIATION MARKETING MANAGEMENT -II	-Policy Scenarios. -Canadian Labor Force. -Canadian Job creation- Methodology. -Canadian Job creation- Results. -Research & Development (R&D) -Investment- Methodology and Results. -Emerging Market Growth. -Aerospace Manufacturing Overview. -Manufacturing, Repair, and Overhaul- Overview. -Training & Simulation Overview. -Space Overview. -Product Segmentation.
Paper-II	AIRCRAFT ACCIDENTS MITIGATION-II	-Introduction and Examination on- Engine Analysis. -Flight Crew Performance. -Abnormal and Emergency Events. -Pilot Training. -Operational Difficulties not factored -into Certification tests. -High- AOA- Related Issues. -Bird- and Other Wildlife-Strike Issues. -Emergency Response. -Survival factors Issues.
Paper-III	AIRPORTS MANAGEMENT-II	-Master Planning. -Federal Responsibilities. -Environmental Issues. -Performance Measurement. -Comparison to Foreign Airports. -Future Directions. -Airport Planning.
Paper-IV	NEW DIMENSIONS OF AVIATION MANAGEMENT-II	-Parametric Modeling of Technology- Cost Relationship. -Future Trends in Aircraft Performance, Cost and Emissions. -Aviation Emissions and Policy- Perspective.
Paper-V	DISSERTATION	

Semester - 1				
Paper	**Paper Name**	**Project Work**	**External Max Marks**	**Total**
Paper - I	PRINCIPLES AND PRACTICE OF MANAGEMENT -I	30	70	100
Paper - II	AIRCRAFT EQUIPMENT AND PROCESSES -I	30	70	100
Paper - III	AVAITION ECONOMICS -I	30	70	100
Paper - IV	FLIGHT GUIDANCE INFORMATION SYSTEM-I	30	70	100
Paper - V	AIR TIMETABLE AND TICKETING SERVICES-I	30	70	100

Semester - 2				
Paper	**Paper Name**	**Project Work**	**External Max Marks**	**Total**
Paper - I	PRINCIPLES AND PRACTICE OF MANAGEMENT -II	30	70	100
Paper - II	AIRCRAFT EQUIPMENT AND PROCESSES -II	30	70	100
Paper - III	AVAITION ECONOMICS -II	30	70	100
Paper - IV	FLIGHT GUIDANCE INFORMATION SYSTEM-II	30	70	100
Paper - V	AIR TIMETABLE AND TICKETING SERVICES-II	30	70	100

Semester - 3				
Paper	**Paper Name**	**Project Work**	**External Max Marks**	**Total**
Paper - I	AVIATION MARKETING MANAGEMENT -I	30	70	100
Paper - II	AIRCRAFT ACCIDENTS MITIGATION-I	30	70	100
Paper - III	AIRPORTS MANAGEMENT-I	30	70	100
Paper - IV	NEW DIMENSIONS OF AVIATION MANAGEMENT-I	30	70	100

Semester - 4				
Paper	**Paper Name**	**Project Work**	**External Max Marks**	**Total**
Paper - I	AVIATION MARKETING MANAGEMENT -II	30	70	100
Paper - II	AIRCRAFT ACCIDENTS MITIGATION-II	30	70	100
Paper - III	AIRPORTS MANAGEMENT-II	30	70	100
Paper - IV	NEW DIMENSIONS OF AVIATION MANAGEMENT-II	30	70	100
Paper – V	DISSERTATION	100		100