



BISHOP HEBER COLLEGE (AUTONOMOUS)
TIRUCHIRAPPALLI – 620017
TAMILNADU, INDIA

COURSE OUTCOMES

**DEPARTMENT
OF
AVIATION**



BISHOP HEBER COLLEGE (AUTONOMOUS)
TIRUCHIRAPPALLI – 620017
TAMILNADU, INDIA

STRUCTURE OF THE SYLLABUS

Program Name	Course	Course Code	Course Name
B.Sc. Aviation	CORE PAPER I	U21AV101	Familiarization of Airport
B.Sc. Aviation	CORE PAPER II	U21AV202	Theory of Flight
B.Sc. Aviation	SBEC – I	U21AV2S1	Airline Passenger Handling
B.Sc. Aviation	CORE PAPER III	U21AV303	Air Regulation - I
B.Sc. Aviation	CORE PAPER IV	U21AV304	Air Navigation
B.Sc. Aviation	CORE PAPER V	U21AV305	Meteorology - I
B.Sc. Aviation	CORE PRACTICAL I	U21AV3P1	ATC Communication and its Units(Practical)
B.Sc. Aviation	ELECTIVE I	U21AV3:1	Piston Engines and Propellers
B.Sc. Aviation	CORE PAPER VI	U21AV406	Air Regulation - II
B.Sc. Aviation	CORE PAPER VII	U21AV407	Radio Aids
B.Sc. Aviation	CORE PRACTICAL II	U21AV2P2	Practical Hangar Workshop - I
B.Sc. Aviation	CORE PAPER VIII	U21AV508	Flight Performance and Planning
B.Sc. Aviation	CORE PAPER IX	U21AV509	Aircraft Instruments
B.Sc. Aviation	CORE PAPER X	U21AV510	Meteorology - II
B.Sc. Aviation	ELECTIVE II	U21AV5:2	Aircraft System
B.Sc. Aviation	ELECTIVE III	U21AV5:3	Civil Aviation Requirements(CAR) Safety Management System
B.Sc. Aviation	CORE PRACTICAL LAB III	U21AV5P3	Practical Hangar Workshop - II
B.Sc. Aviation	SBEC – II	U21AVPS2	Physics Content Development (Theory and Practical)
B.Sc. Aviation	SBEC – III	U21AVPS3	Web Designing (Theory and Practical)
B.Sc. Aviation	CORE PRACTICAL IV	U21AV6P4	Flight Planning (Practical)
B.Sc. Aviation	CORE PRACTICAL V	U21AV6P5	Flight Operation (Practical)
B.Sc. Aviation	CORE PRACTICAL VI	U21AV6P6	Maintenance Workshop (Practical)
B.Sc. Aviation	CORE PRACTICAL VII	U21AV6P7	Flying Synthetic (Practical)



BISHOP HEBER COLLEGE (AUTONOMOUS)
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COURE PAPER- 1 FAMILIARIZATION OF AIRPORT

SEMESTER: I

CODE: U21AV101

TOTAL HOURS: 5

CREDITS: 5

At the end of this course, the students will be able to

CO No.	Course Outcomes	Level	Unit Covered
CO1	Explain the different areas in airport and its functions	K2	I
CO2	Interpret the meaning of markings and lightings in airport	K2	II
CO3	Categorize the different navigation and communication equipment used in Airport	K4	III
CO4	Compare the different Air Traffic Control Unit and its functions	K4	IV
CO5	Outline the different Important organization for safe and efficient conduct of flight	K2	V
CO6	Explain the basic about RADAR principle	K2	III

ALLIED – 1 : INTRODUCTION TO AVIATION CALCULATION AND NUMERICALS

SEMESTER: I

CODE: U21AV1Y1

TOTAL HOURS: 5

CREDITS: 5

At the end of this course, the students will be able to

CO No.	Course Outcomes	Level	Unit Covered
CO1	Construct and analyzing graphs of Trigonometric functions and their inverse	K4	I
CO2	Distinguish the different metric units and understand how to convert from one metric unit to another	K2	II
CO3	Demonstrate the ability to use the Compass rose to indicate directions, create and use map symbols	K2	III
CO4	Basic understanding of calculating speed, distance, time, Rate of climb (ROC), Rate of descent (ROD)	K4	IV
CO5	Explanation about fuel and Time management	K3	V
CO6	Develop a basic fuel management to track all aspects of fuel consumption	K1	V



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ALLIED-II RADIO TELEPHONY (THEORY)

SEMESTER: I

TOTAL HOURS: 5

CODE: U21AV1Y2

CREDITS: 5

At the end of this course, the students will be able to

CO No.	Course Outcomes	Level	Unit Covered
CO1	Explain the duties of different bodies in aviation and the rules made by them.	K2	I
CO2	Outlines the modes of radio propagation and its application.	K2	II
CO3	Interprets the appropriate phraseology as per the situations.	K5	III
CO4	Assess the pressure value and appropriate solves the Q – codes problems associated with Px difference	K5	IV
CO5	Analyze basic commercial between aircrafts ATC & Aircraft	K4	V
CO6	Gain the knowledge about ATC to aircraft cockpit radio communication.	K4	V

CORE PAPER II: THEORY OF FLIGHT (AERODYNAMICS)

SEMESTER: II

TOTAL HOURS: 6

CODE: U21AV202

CREDITS: 5

At the end of this course, the students will be able to

CO No.	Course Outcomes	Level	Unit Covered
CO1	Basic understanding of airflow around the airframe	K1	I
CO2	To understand the aircraft flight controls	K3	II
CO3	To learn about aircraft stability and its controllability	K3	III
CO4	To learn about aircraft ability and dynamics	K4	IV
CO5	To learn about aircraft stability and dynamics	K4	IV
CO6	To understand basic knowledge of subsonic flight and supersonic	K1	V



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ALLIED III: FAMILIARIZATION OF AIRCRAFT

SEMESTER: II

TOTAL HOURS: 5

CODE: U21AV2Y3

CREDITS: 5

At the end of this course, the students will be able to

CO No.	Course Outcomes	Level	Unit Covered
CO1	Understanding basic fluid mechanisms	K2	I
CO2	To understand the basic components of aircraft airframe	K2	II
CO3	To be familiar with aircraft controls	K4	III
CO4	To know the various purposes of landing gear	K2	III
CO5	Able to understand the basic working principles of aircraft engines. (piston)	K1	IV
CO6	Able to understand the basic working principles of aircraft engines. (piston)	K1	V

ALLIED IV: BASIC ELECTRICITY AND AIRCRAFT ELECTRICAL SYSTEM

SEMESTER: II

TOTAL HOURS: 5

CODE: U21AV2Y4

CREDITS: 4

At the end of this course, the students will be able to

CO No.	Course Outcomes	Level	Unit Covered
CO1	To understand structure and distribution of electrical charges within atoms molecules ions compounds	K3	I
CO2	To understand about the behavior of charge in various states of matter i.e., solid liquid gas and vacuum	K2	II
CO3	To learn about the following terms their units and factors affecting them potential difference electromotive force conventional current flow electron flow	K4	III
CO4	To learn about the laws used for studying static charges	K3	IV
CO5	To learn about various laws and its application ohms law Kirchhoff's voltage and current laws	K3	V
CO6	Calculation using the above laws to find resistance voltage and current	K5	VI



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SBEC – I: AIRLINE PASSENGERHANDLING

SEMESTER: II
TOTAL HOURS: 2

CODE:21AV2S1
CREDITS: 2

At the end of this course, the students will be able to

CO No.	Course Outcomes	Level	Unit Covered
CO1	Gain relevant knowledge and understanding in passenger handling and requirement	K1	I
CO2	Familiarize with check in procedure in airport carry the process in handling the baggage ticketing monitor track illegal immigration in order to promote security	K2	II
CO3	To gain the relevant knowledge of the situation handling in crew and passenger	K2	III
CO4	To gain the knowledge of situation handling in regulatory and procedure in emergency situation	K4	III
CO5	To gain the relevant knowledge and understanding of the crew person such as cabin and cockpit crew to get better understanding between crew though communication	K4	IV
CO6	Manage irregular operation and passenger required special handling	K2	V

CORE PAPER III: AIR REGULATION-1

SEMESTER: III
TOTAL HOURS: 3

CODE: U21AV303
CREDITS: 3

At the end of this course, the students will be able to

CO No.	Course Outcomes	Level	Unit Covered
CO1	Study about Indian aircraft act 1934	K3	I
CO2	Study about Indian aircraft rule 1937	K3	II
CO3	Explain the ATC rules and regulation	K4	III
CO4	Operation of ATC and aircraft communication	K2	III
CO5	To understand the aerodrome operation and aerodrome traffic operation	K4	IV
CO6	To understand operational procedure air plane and manual	K1	V



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CORE PAPER IV: AIR NAVIGATION

SEMESTER: III
TOTAL HOURS: 3

CODE: U21AV304
CREDITS: 3

At the end of this course, the students will be able to

CO No.	Course Outcomes	Level	Unit Covered
CO1	Explain various terms of imagination line over globe	K2	I
CO2	Solve the problem related to speed conversion	K4	II
CO3	Explain the different measurement of airspeed	K3	II
CO4	explain the triangle of velocity	K4	III
CO5	Select a particular chart for a particular region	K2	IV
CO6	Choose the efficient fuel and detail at the navigation emergency data	K2	V

CORE PAPER V: METEOROLOGY-1

SEMESTER: III
TOTAL HOURS: 3

CODE: U21AV305
CREDITS: 3

At the end of this course, the students will be able to

CO No.	Course Outcomes	Level	Unit Covered
CO1	Study about different types of layers in atmospheres	K3	I
CO2	Study about temperature reduction on earth surface	K4	II
CO3	To understand the knowledge about avid effect	K2	II
CO4	To understand the atmospheric density and pressure	K3	III
CO5	To understand the knowledge about want	K3	IV
CO6	To understand the aircraft visibility and runway visual	K4	V



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ALLIED V: HUMAN FACTORS

SEMESTER: III
TOTAL HOURS: 2

CODE: U21AV3Y5
CREDITS: 2

At the end of this course, the students will be able to

CO No.	Course Outcomes	Level	Unit Covered
CO1	Explain basic physiology in human factors	K2	I
CO2	Discuss about social psychology	K2	II
CO3	Outline of the human affecting factors	K2	III
CO4	Comparison of error and asks in human in aviation	K3	IV
CO5	Explain the memory skill mental working human factors	K2	V
CO6	Our line of the human information processing	K1	V

CORE PRACTICAL I: ATC COMMUNICATION AND ITS UNITS
(PRACTICAL)

SEMESTER: III
TOTAL HOURS: 2

CODE: U21AV3P1
CREDITS: 2

At the end of this course, the students will be able to

CO No.	Course Outcomes	Level	Unit Covered
CO1	Study of regulation	K4	I
CO2	Outline of radio propagation	K2	II
CO3	Explain phraseology used in aeronautical communication service	K3	III
CO4	Qcodes used in aeronautical communication service	K3	IV
CO5	Outline the communication and frequencies	K2	V
CO6	Outlinehe ATC communication	K3	I



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ELECTIVE I: PISTON ENGINES AND PROPELLERS

SEMESTER: III

TOTAL HOURS: 3

CODE: U21AV3:1

CREDITS: 3

At the end of this course, the students will be able to

CO No.	Course Outcomes	Level	Unit Covered
CO1	DETAIL about the fundamentals and working principle at piston engines	K4	I
CO2	Explain the working principle of 2 stroke 4 stroke otto and diesel engine	K3	I
CO3	Define engine construction and performance	K3	II
CO4	Study the carburetor and lubrication	K2	III
CO5	Explain about chargers	K4	IV
CO6	Explain briefly about propeller	K3	V

NMEC – I: FAMILIARIZATION OF AIRPORT

SEMESTER: III

TOTAL HOURS: 2

CODE: U21AV3E1

CREDITS: 2

At the end of this course, the students will be able to

CO No.	Course Outcomes	Level	Unit Covered
CO1	Explain the different areas in airport and its functions	K2	I
CO2	Interpret the meaning of markings and lightings in airport	K2	II
CO3	Categorize the different navigation and communication equipment used in Airport	K4	III
CO4	Compare the different Air Traffic Control Unit and its functions	K4	IV
CO5	Outline the different Important organization for safe and efficient conduct of flight	K2	V
CO6	Explain the basic about RADAR principle	K2	III



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CORE PAPER VI: AIR REGULATION - II

SEMESTER: IV
TOTAL HOURS: 4

CODE: U21AV406
CREDITS: 3

At the end of this course, the students will be able to

CO No.	Course Outcomes	Level	Unit Covered
CO1	Explain about the ruleset the air and navigation light in aircraft	K4	I
CO2	What is the function of interception at civil aircraft	K4	II
CO3	Define details of margins and lighting	K2	III
CO4	Definition of airport document provide	K3	IV
CO5	Define Requirement for passenger and Customs	K2	V
CO6	Explain ICAO Annexure terminology	K3	V

CORE PAPER VII: RADIO AIDS

SEMESTER: IV
TOTAL HOURS: 4

CODE: U21AV407
CREDITS: 3

At the end of this course, the students will be able to

CO No.	Course Outcomes	Level	Unit Covered
CO1	Understand about the Direction finding Aids	K4	I
CO2	What is Radar and It's types	K2	II
CO3	Classify the Advantage and Disadvantage of the Radar	K2	II
CO4	What is cockpit Display And it's types	K2	III
CO5	Explain Secondary Radar theory And DME	K3	IV
CO6	Explain Secondary Surveillance Radar	K3	V



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CORE PRACTICAL II: PRACTICAL HANGAR WORKSHOP- I

SEMESTER: IV

TOTAL HOURS: 4

CODE: U21AV2P2

CREDITS: 3

At the end of this course, the students will be able to

CO No.	Course Outcomes	Level	Unit Covered
CO1	Experiment with Different Aviation tool	K3	I
CO2	Identify a particular tool for a particular Purpose	K3	I
CO3	Organize the used files	K3	I
CO4	Classify the Different classes of fire	K4	II
CO5	Inspect the Source of fire	K4	II
CO6	Choose the Correct fire extinguishers	K5	II

ALLIED VI: AERO ENGINES

SEMESTER: IV

TOTAL HOURS: 4

CODE: U21AV4Y6

CREDITS: 3

At the end of this course, the students will be able to

CO No.	Course Outcomes	Level	Unit Covered
CO1	Summaries the Basics of set Principle	K2	I
CO2	Illustrate the working of air Intake	K2	II
CO3	List out the various types of compressor and its benefits	K4	III
CO4	Dissect and Explain the different part of a combustion chamber	K4	IV
CO5	Explain the working principle of Fuel Atomizer And Igniter	K2	IV
CO6	Discuss the faults of a compressor	K6	V



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NMEC – II: RADIO TELEPHONY

SEMESTER: IV
TOTAL HOURS: 2

CODE: U21AV4E2
CREDITS: 2

At the end of this course, the students will be able to

CO No.	Course Outcomes	Level	Unit Covered
CO1	Explain the Duties of Different Bodies In aviation And The Rule Made by them	K2	I
CO2	Interpret the Meaning of marking and lighting In airport	K2	II
CO3	Out line Of the Air traffic Service	K3	III
CO4	What is basic Radio Propagation	K2	IV
CO5	What is Frequency Bands	K2	IV
CO6	Analyze Basic Commercial Between Aircraft ATC and Aircraft	K4	V

CORE PAPER VIII: FLIGHT PERFORMANCE AND PLANNING

SEMESTER: V
TOTAL HOURS: 5

CODE: U21AV508
CREDITS: 4

At the end of this course, the students will be able to

CO No.	Course Outcomes	Level	Unit Covered
CO1	Apply the previous knowledge in different scenario take off Performance	K3	I
CO2	Performance based on the Landing	K2	II
CO3	Characteristics of the Runway Details	K2	III
CO4	Plan for diversion & rerouting	K3	IV
CO5	Plan for En rerouting	K3	IV
CO6	Explain About Weight And Balancing	K2	V



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CORE PAPER IX: AIRCRAFT INSTRUMENTS

SEMESTER: V

TOTAL HOURS: 5

CODE: U21AV509

CREDITS: 4

At the end of this course, the students will be able to

CO No.	Course Outcomes	Level	Unit Covered
CO1	Outline of the Pressure instrument And types of pressure	K3	I
CO2	Describe About working principle and construction of Air speed indicator	K3	II
CO3	Describe About working principle and construction of Vertical Speed Indicator	K3	III
CO4	Study of Earth Magnetism	K2	IV
CO5	Study of Magnetic Compass	K2	IV
CO6	Describe about Gyro Instrument	K2	V

CORE PAPER X: METEOROLOGY - II

SEMESTER: V

TOTAL HOURS: 4

CODE: U21AV510

CREDITS: 4

At the end of this course, the students will be able to

CO No.	Course Outcomes	Level	Unit Covered
CO1	Types of cloud and the study of Clouds	K2	I
CO2	Illustrate Knowledge On the thunderstorm	K3	II
CO3	Illustrate Knowledge On the Air masses	K3	II
CO4	Explain Dangers of Icing And how to rectify in the pilot static System	K3	III
CO5	Outline of the Weather forecast And its Report	K2	IV
CO6	Symbols And Abbreviation in Weather On MET Chart	K2	V



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ELECTIVE II: AIRCRAFT SYSTEMS

SEMESTER: V
TOTAL HOURS: 4

CODE: U21AV5:2
CREDITS: 4

At the end of this course, the students will be able to

CO No.	Course Outcomes	Level	Unit Covered
CO1	Outline of the Hydraulic and Pneumatic Power systems	K2	I
CO2	Illustrate the Air conditioning And Cabin Pressurization of the Aircraft	K3	II
CO3	Identify the Details of the Fuel System	K2	III
CO4	Classify the Landing Gear system	K2	IV
CO5	Explain the Landing Gear Systems	K3	IV
CO6	To know the Knowledge about the Engine Fuel System	K4	V

ELECTIVE III: CIVIL AVIATION REQUIREMENTS (CAR) AND SAFETY MANAGEMENT SYSTEMS

SEMESTER: V
TOTAL HOURS: 4

CODE: U21AV5:3
CREDITS: 4

At the end of this course, the students will be able to

CO No.	Course Outcomes	Level	Unit Covered
CO1	Purpose of the civil Aviation And Introduction of Civil Aviation Requirement	K4	I
CO2	Monitoring the Aircraft and the airport Regulation and noise management in Civil Aviation	K3	II
CO3	Study in Terms of General terms of Civil Aviation Requirement.	K2	III
CO4	Study of Airworthiness and air space and air navigation service standard	K3	III
CO5	Safety management System And Indian safety policy	K2	IV
CO6	Describe the Error and case study for the Accidents	K3	V



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SBEC – II: AVIATION SECURITY

SEMESTER: V
TOTAL HOURS: 2

CODE: U21AV5S2
CREDITS: 2

At the end of this course, the students will be able to

CO No.	Course Outcomes	Level	Unit Covered
CO1	Define the terms related to aviation security	K1	I
CO2	Identify the process & equipment required for screening	K3	II
CO3	Identify the objects which are restricted in flight	K3	III
CO4	Determine the threat level for aviation and convention Related to safeguarding aviation	K5	IV
CO5	Summarize host age negotiation plan	K2	V
CO6	Outline the objective of aviation security	K2	I

SBEC – III: INTRODUCTION TO AVIATION

SEMESTER: V
TOTAL HOURS: 2

CODE: U21AV5S3
CREDITS: 2

At the end of this course, the students will be able to

CO No.	Course Outcomes	Level	Unit Covered
CO1	Outline the evaluation of aviation industry	K2	I
CO2	Categorize the organization responsible for safe operation of aircraft	K4	II
CO3	Compare the time zones & time difference between difference parts of globe	K2	III
CO4	Inspect the aircraft before departure	K4	IV
CO5	Explain the procedures of aborted t/o	K2	V
CO6	List the functions of different emergency equipment's	K4	III



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CORE PRACTICAL III: PRACTICAL HANGAR WORKSHOP - II

SEMESTER: V

TOTAL HOURS: 4

CODE: U21AV5P3

CREDITS: 3

At the end of this course, the students will be able to

CO No.	Course Outcomes	Level	Unit Covered
CO1	Demonstrate the working of c152 aircraft systems	K2	I
CO2	Function as aircraft technician under suberized environment	K4	I
CO3	Take part in maintenance schedule of Cessna 152 aircraft	K4	I
CO4	Demonstrate the working of c 172 aircraft system	K2	II
CO5	Examine the function of auto pilot system in Cessna 172	K4	II
CO6	Take part in maintenance schedule of Cessna 172 aircraft	K4	II

CORE PRACTICAL IV: FLIGHT PLANNING (PRACTICAL)

SEMESTER: VI

TOTAL HOURS: 6

CODE: U21AV6P4

CREDITS: 5

At the end of this course, the students will be able to

CO No.	Course Outcomes	Level	Unit Covered
CO1	Outline the different agencies involved for flight planning	K2	I
CO2	Develop and submit a fresh flight plan	K3	II
CO3	Decide the mode of submission of flight plan according to their requirement	K5	III
CO4	Interpret the information's in NOTAM	K2	V
CO5	Interpret ATIS into	K2	VI
CO6	List out the procedure to obtain current Weather obtaining	K4	VII



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CORE PRACTICAL V: FLIGHT OPERATIONS (PRACTICAL)

SEMESTER: VI

CODE: U21AV6P5

TOTAL HOURS: 6

CREDITS: 5

At the end of this course, the students will be able to

CO No.	Course Outcomes	Level	Unit Covered
CO1	Explement with differed types of aero engine	K3	I
CO2	Examine the functions of differed aircraft systems	K5	II
CO3	Identify the differed grades of fuel according to their color& properly	K3	III
CO4	Outline the electrical system in on aircraft	K2	IV
CO5	Experiment with the aircraft systems working with phenetic power	K3	V
CO6	Experiment with the aircraft hydraulic power	K3	VI
CO7	Examine the fenthion of aviation	K4	VII
CO8	Explain about the electrical circus with bathes	K5	VIII

CORE PRACTICAL VI: MAINTENANCE WORKSHOP (PRACTICAL)

SEMESTER: VI

CODE: U21AV6P6

TOTAL HOURS: 6

CREDITS: 5

At the end of this course, the students will be able to

CO No.	Course Outcomes	Level	Unit Covered
CO1	Experiment with different Aviation tools	K3	I
CO2	Classify the different classes of fire training	K3	II
CO3	Learn about the Primary and Auxiliary control surfaces	K4	III
CO4	Illustrate the General Maintenance of the aircraft	K3	IV
CO5	Organized the refueling Procedure	K3	V
CO6	Identify the Marshalling Signals	K2	IV



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CORE PRACTICAL VII: FLYING SYNTHETIC (PRACTIAL)

SEMESTER: VI

CODE: U21AV6P7

TOTAL HOURS: 6

CREDITS: 5

At the end of this course, the students will be able to

CO No.	Course Outcomes	Level	Unit Covered
CO1	Learn how to make the Starting procedure for aircraft	K2	I
CO2	Learn the procedure how to make Taxing for aircraft	K3	II
CO3	Illustrate the Take Off synthetic procedure	K3	III
CO4	Learn about the Landing procedure from AtC	K3	IV
CO5	Outline of the Aircraft Instrument Identification	K2	V
CO6	Understanding the synthetic procedures of aircraft	K4	VI



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STRUCTURE OF THE SYLLABUS

PROGRAM NAME	COURSE	COURSE CODE	COURSE NAME
BBA Aviation and Ground Handling	Core I	U20AG101	Principles of Management
BBA Aviation and Ground Handling	Allied I	U21AG1Y1	Radio Communication
BBA Aviation and Ground Handling	Allied II	U20AG1Y2	Familiarization of Airport and Aircraft
BBA Aviation and Ground Handling	Core II	U20AG202	Business Economics
BBA Aviation and Ground Handling	Allied III	U21AG2Y3	Business Mathematics & Statistics
BBA Aviation and Ground Handling	Allied IV	U20AG2Y4	Introduction to Cabin Crew Profession
BBA Aviation and Ground Handling	Core III	U20AG303	Management Accounting-I
BBA Aviation and Ground Handling	Elective I	U20AG3:1/ U20AG3:2/ U20AG3:3	Sales and Distribution Management/ Advertising and Sales promotion/Total Quality Management
BBA Aviation and Ground Handling	Allied V	U20AG3Y5	Air Regulation
BBA Aviation and Ground Handling	SBEC I	U20AGPS1	Computer Application in Business- I(Theory and Practical)
BBA Aviation and Ground Handling	Core IV	U21AG404	Business Law and Aviation Flight Safety Law
BBA Aviation and Ground Handling	Elective II	U20AG4:2/ U20AG4:3	Training and Development/ Organizational Change & Development
BBA Aviation and Ground Handling	Allied VI	U20AG4Y6	Aviation Security
BBA Aviation and Ground Handling	SBEC II	U21AGPS2	Airport Ground Handling Management
BBA Aviation and Ground Handling	Core V	U20AG505	Human Resource Management
BBA Aviation and Ground Handling	Core VI	U21AG506	Planning And Crew Scheduling
BBA Aviation and Ground Handling	Core VII	U20AG507	General Navigation



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PROGRAM NAME	COURSE	COURSE CODE	COURSE NAME
BBA Aviation and Ground Handling	Core VIII	U20AG508	Dangerous goods regulations
BBA Aviation and Ground Handling	Elective III	U20AG5:3/ U20AG5:4/ U20AG5:5	Investment Management/ Project Management/Retail Management
BBA Aviation and Ground Handling	SBEC III	U20AG5S3	Interview Skills
BBA Aviation and Ground Handling	Core IX	U20AG609	Strategic Management
BBA Aviation and Ground Handling	Core X	U20AGP10	Research Methodology & Introduction to Statistical Packages(Theory and Practical)
BBA Aviation and Ground Handling	Core XI	U21AG611	Passenger Facilitation
BBA Aviation and Ground Handling	Core XII	U21AG612	Ramp Service Management
BBA Aviation and Ground Handling	Internship	U20AG6F1	Internship



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Core I: PRINCIPLES OF MANAGEMENT

SEMESTER: I
CREDITS: 5

CODE: U20AG101
HOURS/WEEK: 6

At the end of this course, the students will be able to

CO No	Course Outcomes	Level	Unit Covered
CO 1	Comprehend the principles, theories of Management.	K2	I
CO 2	Accomplish the given tasks effectively and to handle situations which may arise in management	K3	II
CO 3	Identify the various functional activities prevailing in the organizations	K3	III
CO 4	Discuss and communicate the management evolution and how it will affect future managers	K2	IV
CO 5	Practice the process of management's four functions: planning, organizing, leading, and controlling	K3	V
CO 6	Evaluate leadership styles to anticipate the consequences of each leadership style	K2	IV

Allied II: RADIO COMMUNICATION

SEMESTER: I
CREDITS: 4

CODE: U21AG1Y1
TOTAL HOURS: 60 HOURS/WEEK: 5

At the end of this course, the students will be able to

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



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FAMILIARIZATION OF AIRPORT AND AIRCRAFT

SEMESTER: I
CREDITS: 4

CODE: U20AG1Y2
TOTAL HOURS: 60

At the end of this course, the students will be able to

CO No	Course Outcomes	Level	Unit Covered
CO 1	Distinguish the different structure of aircraft according to its construction	K4	I
CO 2	Compare the Aerofoil structure and explain the working principle of carburettor	K2	II
CO 3	Interpret the working principle of landing gear and its associated system	K2	III
CO 4	Explain piston engine and its related system	K4	IV
CO 5	Identify the various parts within a Jet engine	K3	V
CO 6	Define various terms related with piston engine	K1	IV

CORE II: BUSINESS ECONOMICS

SEMESTER-II
CREDITS: 4

CODE: U20AG202
TOTAL HOURS: 60

At the end of this course, the students will be able to

CO No	Course Outcomes	Level	Unit Covered
CO 1	Recollect the Concept of Demand, Supply analysis, consumer surplus, National income and functions of money, concepts of micro economics and to Relate the demand and supply conditions, able to understand the various micro economic principles to make effective economic decisions under conditions of risk and uncertainty	K1	I
CO 2	Distinguish the types of market to predict the realworld business problems with a systematic theoretical framework	K4	III



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CO 3	Understand the roles of managers in firms to design competition strategies, including costing, pricing, product differentiation, and market environment according to the natures of products.	K2	II
CO 4	Understand & evaluate the different market structure and their different equilibrium for industry as well as for consumers for the survival in the industry by the application of various pricing strategic.	K2, K5	III
CO 5	Understand the Monetary and Fiscal Policy and able to Apply the Utility of Economics in Business Management & various techniques to forecast demand for better utilization of resources	K2	V
CO 6	Analyze the macroeconomic concepts & their relation to micro economic concept & how they affect the business & economy	K4	IV

Allied III: BUSINESS MATHEMATICS & STATISTICS
SEMESTER-II **CODE: U21AG2Y3**
CREDITS: 4 **TOTAL HOURS: 60**

At the end of this course, the students will be able to

CO No	Course Outcomes	Level	Unit Covered
CO 1	Discuss the meaning of business mathematics and understand its application in solving business problems	K1	I
CO 2	Identify the types of data and classify the measures of central tendency	K2	II
CO 3	Outline the various measures of dispersion	K1	III
CO 4	Construct the uses of measures of dispersion in business	K4	III
CO 5	Interpret the measures of skewness and kurtosis	K3	IV
CO 6	Distinguish between correlation and regression	K4	V



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INTRODUCTION TO CABIN CREW PROFESSION

SEMESTER-II

COURSE CODE: U20AG2Y4

CREDITS: 4

TOTAL HOURS: 60

At the end of this course, the students will be able to

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

CORE-III: MANAGEMENT ACCOUNTING – I

SEMESTER-III

CODE: U20AG303

CREDITS: 4

TOTAL HOURS: 60

At the end of this course, the students will be able to

CO No	Course Outcomes	Level	Unit Covered
CO 1	Understand the elements, uses, and limitations of financial statements.	K1	I
CO 2	Illustrate the importance of final accounts and the purpose they serve.	K2	II
CO 3	Make use of final account statement to determine the profit & loss of the firm.	K3	II
CO 4	Explain about the meaning, objectives and scope of management accounting.	K2	III
CO 5	Apply tools and techniques of Ratio analysis used to plan, control and make decision.	K3	IV
CO 6	Utilize the fund flow statement to identify cash inflow and outflow in a firm.	K3	V



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SALES AND DISTRIBUTION MANAGEMENT

SEMESTER-III
CREDIT: 5

CODE: U20AG3:1
TOTAL HOURS: 75

At the end of this course, the students will be able to

CO No	Course Outcomes	Level	Unit Covered
CO 1	Illustrate about the evolution of sales concept	K2	I
CO 2	Classify the working structure of Sales management	K2	I
CO 3	Outline the different types of Sales force	K2	II
CO 4	Apply the concepts learnt to Sales management using basics concepts of marketing	K3	III
CO 5	Explain how the Legal aspect of sales has changed recently	K2	IV

ADVERTISING AND SALES PROMOTION

SEMESTER-III
CREDITS: 5

CODE: U20AG3:2
TOTAL HOURS: 75

At the end of this course, the students will be able to

CO No	Course Outcomes	Level	Unit Covered
CO 1	Describe different types of advertisement.	K1	I
CO 2	Identify and make decisions regarding the most feasible advertising appeal and media mix.	K3	II
CO 3	Outline the ethics in advertisement	K2	III
CO 4	Identify key players in advertising industry.	K4	III
CO 5	Identify the dealer oriented promotion techniques, customer oriented promotion techniques and the salesmen oriented promotion techniques.	K1	IV
CO 6	Discuss different aspect of personal selling	K6	V



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Elective I: TOTAL QUALITY MANAGEMENT

SEMESTER: III
CREDITS: 5

CODE: U20AG3:3
TOTAL HOURS: 75

At the end of this course, the students will be able to

CO No	Course Outcomes	Level	Unit Covered
CO 1	Identify the importance of Quality Management in an organization	K3	I
CO 2	Demonstrate the importance of Vision, Mission and Quality Policy Statements of the organizations to improve and maintain quality	K2	II
CO 3	Make use of the old and new seven quality improvement tools to improve and maintain quality in an organization	K3	III
CO 4	Apply the concept of Kaizen, 5S, quality circles and benchmarking in the quality improvement process of organizations	K3	IV
CO 5	Illustrate the use of Just in Time methodology in manufacturing companies	K2	IV
CO 6	Analyse the prevailing conditions and provide solutions to enhance the organizations' quality standards	K5	V

SBEC I: COMPUTER APPLICATION IN BUSINESS-I (THEORY & PRACTICAL)

SEMESTER- III
CREDITS: 2

CODE: U20AGPS1
TOTAL HOURS: 30

At the end of this course, the students will be able to

CO No	Course Outcomes	Level	Unit Covered
CO 1	Recall the characteristics, types, five generations and anatomy of computer for better utilization.	K1	I
CO 2	Relate office functions as they contribute to sound business practices and procedures.	K2	II
CO 3	Apply Microsoft office and Tally software knowledge in businesses	K3	V
CO 4	Examine the basic concepts in computer applications.	K2	I
CO 5	Estimate competence with a wide variety of electronic tools and perform the current speed and accuracy requirements for key operation in a business environment.	K6	IV
CO 6	Develop business correspondence and create graphics and electronic presentations	K3	III



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Elective II: TRAINING & DEVELOPMENT

SEMESTER: IV
CREDITS: 5

CODE: U20AG4:2
TOTAL HOURS : 75

At the end of this course, the students will be able to

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

Elective II: ORGANIZATIONAL CHANGE AND DEVELOPMENT

SEMESTER: IV
CREDITS: 5

CODE: U20AG4:3
TOTAL HOURS: 75

At the end of this course, the students will be able to

CO No	Course Outcomes	Level	Unit Covered
CO 1	Develop various terms relating to organizational development and change.	K1	I
CO 2	Apply theories and current research concerning individuals, groups and organizations to the process of change	K3	II
CO 3	Discuss the process of change as applied to organizational culture and human behaviour	K2	III
CO 4	Analyze ongoing activities within an organization and design and plan the implementation of selected OD interventions	K4	IV
CO 5	Understand OD diagnostic models	K2	IV
CO 6	Understand how organizational development differs from other change methods.	K2	V



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AVIATION SECURITY

SEMESTER-IV

CREDIT: 4 TOTAL HOURS: 60

COURSE CODE: U20AG4Y6

HOURS/WEEK: 4

At the end of this course, the students will be able to

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

AIRPORT GROUND HANDLING MANAGEMENT

SEMESTER-IV

CREDITS: 2

COURSE CODE: U21AGPS2

TOTAL HOURS: 30

At the end of this course, the students will be able to

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



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EXTRA DISCIPLINARY COURSE
NMEC II: FUNDAMENTALS OF MARKETING

SEMESTER: IV

CREDITS: 2

CODE: U20AG3E2

TOTAL HOURS: 30

At the end of this course, the students will be able to

CO No	Course Outcomes	Level	Unit Covered
CO 1	Demonstrate understanding of marketing terminology and concepts.	K2	I
CO 2	Identify wants and environmental factors that shape marketing activities for certain target markets	K3	I
CO 3	Demonstrate knowledge of the individual components of a marketing mix.	K2	II
CO 4	Demonstrate knowledge of kinds of pricing within the marketing field.	K2	III
CO 5	Identify the organizational processes involved in the channels of distribution	K3	IV
CO 6	Demonstrate knowledge regarding Product advertising and sales promotion	K2	V

Core V: HUMAN RESOURCE MANAGEMENT

SEMESTER: V

CREDITS: 5

CODE: U20AG505

TOTAL HOURS: 75 HOURS/WEEK: 6

At the end of this course, the students will be able to

CO No	Course Outcomes	Level	Unit Covered
CO 1	Interpret employee recruitment, selection, and retention plans and processes.	K2	I
CO 2	Explain the methods to administer and contribute to the design and evaluation of the performance management system.	K2	III
CO 3	Illustrate a training program using an appropriate framework for evaluating needs for training, designing a training program, and evaluating the training output.	K2	IV
CO 4	Understand the HR environment in India, human resource functions within organizations, importance of workers participation in management and creating stress free work environment through counseling and mentoring.	K2	II
CO 5	Plan human resources requirement and formulate HR policy of the organisation with regard to recruitment, selection, training and career planning.	K3	V
CO 6	Appraise the employee's performance and formulate compensation policy which helps to make organizational excellence & analyze the ethical issues in HR management.	K5	I



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PLANNING AND CREW SCHEDULING

SEMESTER-V
CREDITS: 5

COURSE CODE: U21AG506
TOTAL HOURS: 75

At the end of this course, the students will be able to

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

GENERAL NAVIGATION

SEMESTER-V
CREDITS: 5

COURSE CODE:U20AG507
TOTAL HOURS: 75

At the end of this course, the students will be able to

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



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DANGEROUS GOODS REGULATIONS

SEMESTER-V
CREDITS: 5

COURSE CODE: U20AG508
TOTAL HOURS: 75

At the end of this course, the students will be able to

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

Elective III: INVESTMENT MANAGEMENT

SEMESTER-V
CREDITS: 5

CODE: U20AG5:3
TOTAL HOURS: 75

At the end of this course, the students will be able to

CO No	Course Outcomes	Level	Unit Covered
CO 1	Identify various types of Investment sectors and schemes available for individuals	K2	I
CO 2	Illustrate the process involved in investing in various investment avenues	K4	II
CO 3	Demonstrate the features and functions of primary and secondary market.	K2	IV
CO 4	Classify the various types of mutual funds available to the investors	K1	III
CO 5	Make use of the concept of portfolio risk and return for suggesting suitable investment alternatives.	K3	IV
CO 6	Explain the SEBI regulations on Stock Exchanges in India.	K2	V



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ELECTIVE III: PROJECT MANAGEMENT

SEMESTER: V
CREDITS: 5

CODE: U20AG5:4
TOTAL HOURS: 75

At the end of this course, the students will be able to

CO No	Course Outcomes	Level	Unit Covered
CO 1	Understand project characteristics and various stages of a project.	K2	I
CO 2	Understand the various project techniques & skills required for project managers.	K2	II
CO 3	Apply the risk management plan and analyze the role of stakeholders.	K3	IV
CO 4	Analyze and understand the techniques of Project planning, scheduling and Execution Control.	K4	IV
CO 5	Understand the contract management, Project Procurement, Service level Agreements and productivity.	K2	V
CO 6	Elaborate the conceptual clarity about project organization, feasibility analysis & closing of a project	K6	III

Elective III: RETAIL MANAGEMENT

SEMESTER- V
CREDITS: 5

CODE: U20AG5:5
TOTAL HOURS: 75

At the end of this course, the students will be able to

CO No	Course Outcomes	Level	Unit Covered
CO 1	Identify the importance of Retail Industry	K3	I
CO 2	Demonstrate the importance of retailing mix	K2	II
CO 3	Make use of the marketing concepts in different formats of retailing structures	K3	III
CO 4	Apply the concept of customer buying behaviour in retail industry	K3	IV
CO 5	Illustrate the use of private labels in retailing	K2	III
CO 6	Analyse the customer traffic flows and patterns in the retail store	K5	V



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SBEC III: INTERVIEW SKILLS

SEMESTER: V

CODE: U20AG5S3

CREDITS: 2

TOTAL HOURS: 30 HOURS/WEEK: 2

At the end of this course, the students will be able to

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

Core IX: STRATEGIC MANAGEMENT

SEMESTER: VI

CODE: U20AG609

CREDITS: 5

TOTAL HOURS: 75

At the end of this course, the students will be able to

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



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

SEMESTER: V
CREDITS: 5

CODE: U20AGP10
TOTAL HOURS: 75

At the end of this course, the students will be able to

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

PASSENGER FACILITATION

SEMESTER-VI
CREDITS: 5

COURSE CODE: U21AG611
TOTAL HOURS: 75

At the end of this course, the students will be able to

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



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RAMP SERVICES MANAGEMENT

SEMESTER-IV

COURSE CODE: U21AG612

CREDIT: 4

TOTAL HOURS: 60

At the end of this course, the students will be able to

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