

P.S.N. College of Engineering And Technology
Department of Aeronautical Engineering
Course Outcomes
Curriculum Regulation 2018

501001- Technical English	
CO	COURSE OUTCOMES
CO.1	Write cohesively and coherently and flawlessly avoiding grammatical errors
CO.2	Listen/view and comprehend different Spoken discourses/excerpts in different accents
CO.3	Communicate with one or many listeners' using appropriate communicative strategies
CO.4	Read different genres of texts adopting various reading strategies
CO.5	Writing skills enable a student o write comprehend passages, report and paragraph
Course Name: 501002- Elementary Mathematics for Engineers	
CO	COURSE OUTCOMES
CO.1	Find the Eigen values and Eigen vectors by matrix methods.
CO.2	Understand different types of sequences of series and their convergence.
CO.3	Know the concepts of differentiation and integration and applications of indefinite integral.
CO.4	Form and solve the inequalities by LPP and solve transportation problems.
CO.5	Understand the concepts of three dimension and form the equations of tangent plane, cone.
Course Name: 501003- Applied Physics I	
CO	COURSE OUTCOMES
CO.1	Understand the properties of different types of metals
CO.2	Gain knowledge about conductivity of different types of materials
CO.3	Study about magnetism property of the materials

CO.4	Know the applications of sound waves in engineering & medicine
CO.5	Understand the application of laser in engineering & medicine
Course Name: 501004- Applied Chemistry I	
CO	COURSE OUTCOMES
CO.1	Do water Treatment for domestic & industrial purpose
CO.2	Study different kinds of advanced materials and their applications
CO.3	Study different kinds of polymers & their applications
CO.4	Basics of thermo dynamics and its concept
CO.5	Familiar with name materials & their applications in different fields
Course Name: 501005- Engineering Graphics	
CO	COURSE OUTCOMES
CO.1	. Perform free hand sketching of basic geometrical shapes and multiple views of objects.
CO.2	Draw orthographic projections of lines, planes and solids
CO.3	Obtain development of surfaces.
CO.4	Prepare isometric and perspective views of simple solids.
Course Name: 501006- Fundamentals of Computers and Python Programming	
CO	COURSE OUTCOMES
CO.1	Have fundamental knowledge on basics of computers and Number System
CO.2	Work on MS-Office
CO.3	Write, compile and debug simple programs in Python

CO.4	Understand the concept of functions in Python
CO.5	Use different Compound data types in Python.

Course Name: 501101- Applied Physics & Chemistry Lab - I	
CO	COURSE OUTCOMES
CO.1	Gain practical knowledge by applying the experimental methods to correlate with physics and chemistry theory.
CO.2	Able to gain Working knowledge of fundamental Physics and chemistry.
CO.3	Ability to apply the design process to engineering application.

Course Name: 501102- Computer Lab	
CO	COURSE OUTCOMES
CO.1	Create and edit their own documents, sheets and presentations
CO.2	Write their own programs to solve problems by using Python

Course Name: 501103- Workshop Practice	
CO	COURSE OUTCOMES
CO.1	Apply the knowledge of pipeline connections to household fittings and industrial buildings.

CO.2	Prepare the different joints in roofs, doors, windows and furniture.
CO.3	Perform the various welding processes and know about its applications.
CO.4	Produce a tray and funnel using sheet metal.
CO.5	Prepare square fitting and “V” fitting

Course Name: 501007- Business Communication and Presentation Skills

CO	COURSE OUTCOMES
CO.1	Communicate with one or many listeners’ by using effective business communication.
CO.2	Create formal reports and proposals cohesively and creatively and flawlessly.
CO.3	Understand basic communicative mannerisms, cultural factors and emotional intelligence.
CO.4	Develop and deliver powerful presentation and confidence in public speaking.
CO.5	Produce resumes and cover letters.

Course Name: 501009- Applied Physics II

CO	COURSE OUTCOMES
CO.1	Find the energy of small particle
CO.2	Find the structure of different material in different temperature
CO.3	Study different types of fiber optics used in communication systems
CO.4	Gain knowledge on the thermal properties of different types of materials
CO.5	Study the engineering applications of magnetic materials

Course Name: 501010- Applied Chemistry II

CO	COURSE OUTCOMES
CO.1	Know the Principles & applications of electro chemistry
CO.2	Understand about corrosion & its protection techniques
CO.3	Gain Knowledge about materials used in energy production
CO.4	To study the properties of different kinds of alloys & its application
CO.5	Understand various instrumental techniques for sample processing

Course Name: 501011- Engineering Mechanics

CO	COURSE OUTCOMES
CO.1	Illustrate the vectorial and scalar representation of forces and moments
CO.2	Evaluate the properties of surfaces and solids
CO.3	Analyze the different type of motion
CO.4	Determine the friction and the effects by the laws of friction
CO.5	Calculate dynamic forces exerted in rigid body

Course Name: 501012- Programming in C

CO	COURSE OUTCOMES
CO.1	Have fundamental knowledge on C language
CO.2	Design programs involving decision structures, loops and functions.
CO.3	Define small functions for solving complex applications
CO.4	Write, compile and debug programs in C language using Arrays.

CO.5	. Understand the concept of Structure and Union
Course Name: 501013- Basic Engineering (Coming under EEE Board)	
CO	COURSE OUTCOMES
CO.1	Explain the usage of construction material and proper selection of construction materials and also measure distances and area by surveying
CO.2	Understand the basics of Energy Sources and Power Generation
CO.3	Acquire the knowledge about various manufacturing processes.
CO.4	Solve simple circuits and express the concept of fundamentals of circuits
CO.5	Express the function of semiconductor devices and develop the truth tables of logic gates.
Course Name: 501104- Applied Physics & Chemistry Lab II	
CO	COURSE OUTCOMES
CO.1	Gain practical knowledge by applying the experimental methods to correlate with physics and chemistry theory.
CO.2	Apply the various procedures and techniques for the experiments.
CO.3	Apply the various procedures and techniques for the experiments.
CO.4	Develop basic communication skills through working in groups in performing the laboratory experiments and by interpreting the results.
CO.5	Ability to use the different measuring devices and meters to record the data with precision.
Course Name: 501105- C Programming Lab	
CO	COURSE OUTCOMES
CO.1	Able to solve simple problems using C' Language
CO.2	Able to execute programs using control statements
CO.3	Able to handle arrays in C' Programs
CO.4	Able to write functions and to solve some complicated problems in C

Course Name: 501106-Basic Electrical and Electronics Lab	
CO	COURSE OUTCOMES
C 201.1	Design House wiring system
C 201.2	Measure the various Electrical Quantities in a circuit
C201.3	Attend the trouble shooting of electrical equipments
C201.4	Check the status of Semiconductor devices
C201.5	Check the Functioning of Logic Gates
Course Name: 501015 AERO ENGINEERING THERMODYNAMICS	
CO	COURSE OUTCOMES
CO.1	Able to relate laws of thermodynamics to jet engine components.
CO.2	Understands principle operation of piston engine and jet engines.
CO.3	Able to identify efficient cycle of air and jet engines.
CO.4	Capable to illustrate condition of working medium.
CO.5	Eligible to recognize and calculate heat transfer in complex systems involving several heat transfer mechanisms.
Course Name: 501016- Fluid Mechanics and Machinery	
CO	COURSE OUTCOMES
CO.1	Understand the basic fluid mechanics through the properties of various fluids.
CO.2	Ability to analyse the fluid flow problems with the applications of momentum and energy equations.
CO.3	Understand and apply knowledge in the flow concepts through pipes.
CO.4	Understand the types of turbines and also the characteristics of turbine has been studied.
CO.5	Understand the basic function and operation of pumps and performance curves has been studied.

Course Name: 501017 SOLID MECHANICS

CO	COURSE OUTCOMES
CO.1	Understand the concepts of stress and strain in simple and compound bars, the importance of principal stresses and principal planes.
CO.2	Understand the load transferring mechanism in beams and stress distribution due to shearing force and bending moment.
CO.3	Apply basic equation of simple torsion in designing of shafts and helical spring
CO.4	Calculate the slope and deflection in beams using different methods.
CO.5	Analyze and design thin and thick shells for the applied internal and external pressures .

Course Name: 501018 FUNDAMENTALS OF AERONAUTICS

CO	COURSE OUTCOMES
CO.1	Ability to identify the types & classifications of components and control systems.
CO.2	Understand the basic concepts of flight & Physical properties of Atmosphere.
CO.3	Ability to understand the basic aerodynamics and airfoil characteristics.
CO.4	An ability to differentiate the types of fuselage and constructions

CO.5	Different types of Engines and principles of Rocket operations.
Course Name: 501019 AIRCRAFT MATERIALS AND PROCESSES	
CO	COURSE OUTCOMES
CO.1	Ability to understand the basic atomic and crystal structures.
CO.2	Ability to understand the linear and nonlinear elastic properties of materials.
CO.3	Role of corrosion and heat treatment processes of aircraft materials.
CO.4	Knowledge in usage of composite materials in aircraft component design.
CO.5	Exposure to high temperature materials for space applications.
Course Name: 501107FLUID MECHANICS AND MACHINERY LABORATORY	
CO	COURSE OUTCOMES
CO.1	Explain and apply the basic principles of pitot static tube.
CO.2	Determine discharge characteristics of flow meters.
CO.3	Understanding of flow visualisation.
CO.4	Understanding the concept and operation of turbines.
CO.5	Able to understand the viscous flow of fluids.
Course Name: 501108 SOLID MECHANICS & THERMAL ENGINEERING LAB	
CO	COURSE OUTCOMES
CO.1	Test and quantify the mechanical properties of Engineering Materials.
CO.2	Acquire knowledge on bending properties of beams.
CO.3	Estimate the performance of heat exchangers.
CO.4	Apply principles of convective heat transfer characteristics to practical systems.
CO.5	Acquire Knowledge on ignition aspects of fuels and thermal properties of fuels .

Course Name: 501109 CAREER SKILL DEVELOPMENT – I

CO	COURSE OUTCOMES
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CO.1	Acquire knowledge on English Grammar, Analytical & Logical reasoning.
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CO.2	Facilitated to set their career goals.
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Course Name:501021 AERODYNAMICS I

CO	COURSE OUTCOMES
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CO.1	An ability to understand the basic understanding of low speed flow.
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CO.2	An ability to gain knowledge incompressible flow.
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CO.3	An ability to apply airfoil theory to predict airfoil performance.
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CO.4	Ability to understand the subsonic wing theory.
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CO.5	An exposure to Boundary layer theory.
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Course Name: 501022-AIRCRAFT STRUCTURES I

CO	COURSE OUTCOMES
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CO.1	Ability to perform linear static analysis of determinate and indeterminate aircraft structural components
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CO.2	Ability to design the component using different theories of failure
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CO.3	Calculate the response of statically indeterminate structures under various loading conditions.
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CO.4	Calculate the reactions of structures using strain energy concept.
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CO.5	Create a structure to carry the given load.
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CO.6	Examine the structural failures using failure theories.
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Course Name: 501023 CONTROL ENGINEERING

CO	COURSE OUTCOMES
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CO.1	Develop the transfer function of electrical and Mechanical systems
CO.2	Explain about test signal, type, order of system and Analyze the steady state error.
CO.3	Analyze the stability of the system using bode plot and polar plot.
CO.4	Analyze the stability of systems , Form the state transition matrix and check the controllability and observability.
CO.5	Describe the fundamentals about Digital control system

Course Name: 501024 PROPULSION I

CO	COURSE OUTCOMES
CO.1	To understand the basic concepts of gas turbine engines.
CO.2	To understand and gained knowledge in the subsonic and supersonic inlets for jet engine systems.
CO.3	To understand the classification of combustion chambers and flame cooling methods.
CO.4	To understand the nozzle theory and thrust reversal concept.
CO.5	To understand the principle of compressor and types of compressor performance characteristics

Course Name: 501025 AIRCRAFT SYSTEMS AND INSTRUMENTS

CO	COURSE OUTCOMES
CO.1	Compare the features of various flight control systems.
CO.2	Describe the principle and working of different aircraft systems.
CO.3	Analyze the performance of various aircraft engine systems.
CO.4	Acquire and interpret data from various aircraft instruments.
CO.5	Identify the various cockpit controls

Course Name: 501110 AERODYNAMICS LAB

CO	COURSE OUTCOMES
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CO.1	Ability to use the fundamental dynamic principles in aircraft applications.
CO.2	Describe the fundamental aerodynamic and geometrical properties related to external flows over airfoils, wings, and bluff bodies
CO.3	Use thin aerofoil theory to evaluate the performance of thin airfoils and the effects of angle of attack and camber.
CO.4	Able to understand the aspect flow patterns.
CO.5	Estimate the various forces and moments acting on aerodynamic bodies.
Course Name: 501111 MANUFACTURING TECHNOLOGY LAB	
CO	COURSE OUTCOMES
CO.1	Understanding of the practical behavior of facing.
CO.2	Understanding of the experience in machining.
CO.3	Knowledge in cutting techniques.
CO.4	Understanding of Milling concepts.
CO.5	Knowledge in shaping and drilling.
Course Name: 501112 AIRCRAFT STRUCTURES LAB	
CO	COURSE OUTCOMES
CO.1	Practical behaviour of aircraft structural Components Under different loading conditions
CO.2	Student will have hands-on experience in the area of testing of structural components.
CO.3	Student will able to demonstrate the basics experimental techniques in photoelasticity.
CO.4	Student will have an exposure to data interpretation/analysis of vibration measuring instruments. Student will have practical knowledge in the field of fabrication and testing of Composite material specimens.
Course Name 501113 CAREER SKILL DEVELOPMENT – II	
CO	COURSE OUTCOMES

CO.1	Increase their skill of listening, writing and speaking.
CO.2	Increase their personality development, mannerisms Skill and Attitude.
CO.3	Increase their interpersonal relationship.
CO.4	Increase their knowledge of verbal and non verbal reasoning.
CO.5	Increase their experience of group discussion and mock interviews.
COURSE NAME: 501026 EXPERIMENTAL AERODYNAMICS	
CO	COURSE OUTCOMES
CO.1	Gain Knowledge on measurement techniques in aerodynamic flow.
CO.2	Acquiring basics of wind tunnel measurement systems
CO.3	Understand instruments for flow parameter measurement like pressure and velocity.
CO.4	Analyze the model measurements, Lift and drag measurements through various techniques and testing of different models.
CO.5	Apply the Wind tunnel boundary corrections and Scale effects.
COURSE NAME: 501027 AIRCRAFT PERFORMANCE	
CO	COURSE OUTCOMES
CO.1	Understand the basic flight performance characteristics and types of drag reduction and estimation.
CO.2	Knowledge on aircraft performance on accelerated and unaccelerated flight.
CO.3	Analyse the types of loads acting on the airplane.

CO.4	Apply the aircraft maneuverability on high lift devices
COURSE NAME: 501028 AERODYNAMICS II	
CO	COURSE OUTCOMES
CO.1	Calculate the compressible flow through a duct of varying cross section.
CO.2	Use quasi one-dimensional theory to analyze compressible flow problems.
CO.3	Estimate fluid properties in Rayleigh and Fanno type flows.
CO.4	Estimate the properties across normal and oblique shock waves
CO.5	Predict the properties of transonic flows.
COURSE NAME: 501029 AIRCRAFT STRUCTURES II	
CO	COURSE OUTCOMES
CO.1	Understand loads acting on an aircraft.
CO.2	Identify & resolve the structural design & its limitations .
CO.3	Improve distribution of loads on aircraft member with safer limits.
CO.4	Understand the design of low weight to high strength panel member.
CO.5	Analyze the aircraft real structural components such as wings and fuselage.
COURSE NAME: 501030 PROPULSION II	
CO	COURSE OUTCOMES
CO.1	Understand the ramjet air breathing propulsion systems.

CO.2	Familiarization in rocket propulsion systems.
CO.3	Identify the applications and principles of liquid and solid-liquid propulsion systems.
CO.4	Understand and gained knowledge about the advanced propulsion technique used for interplanetary mission.
COURSE NAME: 501031 AIR TRAFFIC CONTROL AND PLANNING	
CO.1	Understand the requirement of air traffic control systems and types of air traffic control system
CO.2	Gain knowledge about how to set routes for flights based on time and distance.
CO.3	Understand about the flight information systems and rules of air traffic systems.
CO.4	Gained knowledge about various aerodrome and aerodrome terminology
CO.5	Gain knowledge on various instruments used to overcome the visual obstacles.
COURSE NAME: 501115 Career Skill Development Training – III	
CO.1	Acquire skills and knowledge in Autocad and CATIA basics
CO.2	Understand the basic aircraft maintenance and overhauling concepts .
COURSE NAME: 501032 AVIONICS	
CO	COURSE OUTCOMES
CO.1	Understand the concept of Digital avionics architecture .
CO.2	Understand the digital systems and applications
CO.3	Integrate avionics systems using data buses
CO.4	Analyze the performance of various cockpit display technologies
CO.5	To Design the avionics navigation system

COURSE NAME: 501033 FLIGHT DYNAMICS	
CO	COURSE OUTCOMES
CO.1	Understand about performance in level flight, minimum drag and power required, climbing, gliding and turning flight, v-n diagram and load factor.
CO.2	Knowledge about degrees of stability, stick fixed and stick free stability, stability criteria, effect of fuselage and CG location, stick forces, aerodynamic balancing
CO.3	Understanding about the lateral control, rolling and yawing moments, static directional stability, rudder and aileron control requirements and rudder lock.
CO.4	Understanding about dynamic longitudinal stability, stability derivatives, modes and stability criterion, lateral and directional dynamic stability.
COURSE NAME: 501034 HEAT TRANSFER	
CO.1	Understand the difference between various modes of Heat Transfer and the Resistance Concept used in Heat Conduction.
CO.2	use the basic methods in Conduction. Understand the concept of Lump Parameter analysis and when it is applicable and learn the concepts of boundary layer
CO.3	Learn to apply various correlation used in Convective Heat Transfer and Understand the concepts of Black Body, Grey Body, View factor, Radiation shielding.
CO.4	Design of Heat Exchanger and understand the concept of Mass transfer, its types & laws associated with it.
CO.5	Apply various technique used for high speed flow heat transfer.
COURSE NAME: 501035 FINITE ELEMENT ANALYSIS	
CO	COURSE OUTCOMES
CO.1	Write flow chart of finite element steps and understand the convergence of the problem
CO.2	Solve stiffness matrix for bar, beam and frame problems using suitable boundary condition

CO.3	Plane stress and plane strain condition are used to understand 2d structures
CO.4	Modelling of 2d and 3d structures using isoparametric elements
CO.5	Apply the concepts of finite element methods to solve fluid flow and heat transfer problems
COURSE NAME: 501036 VIBRATIONS AND AERO ELASTICITY	
CO	COURSE OUTCOMES
CO.1	Solve problems in free, free damped and forced vibration characteristics of single degree of freedom systems.
CO.2	Analyse the vibration characteristic of multi degree of freedom systems including orthogonality conditions.
CO.3	Analyse the vibration characteristics of continuous system such as strings, bar, shafts and beams.
CO.4	Calculate the fundamental frequency of multi degree of freedom systems using approximate methods.
CO.5	Investigate the aero elastic effects of 2D wing.
COURSE NAME: 501116 AIRCRAFT DESIGN PROJECT I LABORATORY	
CO	COURSE OUTCOMES
CO.1	Do preliminary design of an aircraft starting from data collection to satisfy mission specifications.
CO.2	Get familiarized with the estimation of geometric and design parameters of an airplane .
CO.3	Carry out the procedure involved in weight estimation, power plant selection, and estimation of the performance parameters.
CO.4	Initiate the design of a system, component, or process to meet requirements for aircraft systems.

CO.5	Work in a multidisciplinary environment involving the integration of engineering practices in such subjects as aerodynamics, structures, propulsion, and flight mechanics .
COURSE NAME: 501117 AIRCRAFT STRUCTURAL AND MODELLING LABORATORY	
CO	COURSE OUTCOMES
CO.1	To familiarize basic aircraft and its components .
CO.2	To familiarize the solid and sheet metal three dimensional drawings.
CO.3	To familiarize the assembly of aircraft components .
CO.4	To familiarize the standard formats for exchanging Cad data between different cad modeling packages.
CO.5	To familiarize recent technologies implemented in aircraft design.
COURSE NAME: 501118 CAREER SKILL DEVELOPMENT IV	
CO	COURSE OUTCOMES
CO.1	Acquire skills and knowledge in CREO and CFD basics.
CO.2	Understand the Civil aviation requirements and airworthiness.
CO.3	Apply knowledge on aeronautical manuals and its types.
COURSE NAME: 501201 HYPERSONIC AERODYNAMICS	
CO	COURSE OUTCOMES
CO.1	Gain knowledge in the peculiarities of hypersonic aerodynamics .
CO.2	Determine shock and expansion wave propagation in hypersonic flows.
CO.3	Gain insights in the use of approximate methods for hypersonic flow solution .
CO.4	Acquire knowledge in shock wave boundary layer interaction .

CO.5	Investigate the high temperature effects on hypersonic vehicles .
COURSE NAME: 501202 EXPERIMENTAL STRESS ANALYSIS	
CO.1	Knowledge of stress and strain measurements in loaded components.
CO.2	Acquiring information's the usage of strain gauges and photo elastic techniques of measurement .
CO.3	Formulate and solve general three dimensional problems of stress-strain analysis especially fundamental problems of elasticity.
CO.4	Analyze the strain gauge data under various loading condition by using gauge rosette method.
CO.5	Experimentally evaluate the location and size of defect in solid and composite materials by using various Non-destructive Testing methods.
COURSE NAME: 501203 INDUSTRIAL AERODYNAMICS	
CO.1	Usage of aerodynamics for non- aerodynamics such as vehicle, building
CO.2	Solve the problems and able to analyse vibrations during flow .
CO.3	Identify the Atmospheric boundary layer and applications of wind energy collectors.
CO.4	Analyze the aerodynamics of road vehicles, buildings and problems of flow induced vibrations.
COURSE NAME: 501204 AIRCRAFT HIGH TEMPERATURE MATERIALS	
CO.1	Undertsanding of aircraft materials.
CO.2	Knowledge in creep and stress.
CO.3	Gained thorough knowledge in fatigue and fracture.

CO.4	Understanding of oxidation and corrosion methods.
CO.5	Understanding of super alloys and other methods.
COURSE NAME: 501205 AIRCRAFT GENERAL ENGINEERING AND MAINTENANCE PRACTICES	
CO.1	Gained Knowledge in various ground support system for aircraft operations .
CO.2	Ability to carry out ground servicing of critical aircraft systems .
CO.3	Understand the ground handling procedures and types of equipments with special maintenance .
CO.4	Ability to do shop safety, Environment cleanliness in an aircraft materials shop
CO.5	Understand the FAA airworthiness regulations and the checklist involved in each inspection of aircraft .
COURSE NAME: 501206 AIRCRAFT STRESS ANALYSIS	
CO.1	Understanding of various load acting on aircraft.
CO.2	Identify the stress and other factors.
CO.3	Understand the various stress methods.
CO.4	Knowledge on buckling in aircraft .
CO.5	Analyse the aircraft structures.
COURSE NAME: 501207 THEORY OF ELASTICITY	
CO.1	Ability to use mathematical knowledge to solve problem related to structural elasticity.
CO.2	Identify stress-strain relation in 3D, principal stress and principal strain.

CO.3	Analyze a structure using Elasticity concepts.
CO.4	Use analytical techniques to predict deformation, internal force and failure of simple solids and structural components.
CO.5	Solve aerospace-relevant problems in plane strain and plane stress in Cartesian and polar coordinates.
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COURSE NAME: 501901 FUNDAMENTALS OF AIRCRAFT ENGINEERING	
CO.1	Ability to identify the types & classifications of components and control systems.
CO.2	Understand the basic concepts of flight & Physical properties of Atmosphere.
CO.3	Ability to understand the basic aerodynamics and airfoil characteristics.
CO.4	An ability to differentiate the types of fuselage and constructions .
CO.5	Different types of Engines and principles of Rocket operations .
COURSE NAME: 501902 AIRCRAFT MAINTENANCE MANAGEMENT	
CO.1	Understand the airline economics and cost .
CO.2	Gained knowledge on aircraft reliability and various maintenance schedules
CO.3	Analysing the aircraft forecasting and other methods.
CO.4	Understand the various technology in aircraft maintenance systems .
COURSE NAME: 501903 EXPERIMENTS IN FLUIDS	
CO.1	To understand the concepts of fluids in fluid mechanics and they will gain wide area of knowledge in sensors and signal processing techniques.
CO.2	Knowledge on probe geometric and flow angle calibration.

CO.3	Understanding of thermal anemometric and laser anemometry concepts.
CO.4	Analyse the various signal conditioning and filtering methods for fluids.

