SYLLABUS FOR SEMESTER I (Theory)

1. ELECTRICAL FUNDAMENTALS - I Course Code : FCE

1.0 Electrical fundamentals –I Total Credits:6 Hours 180

1.1 Structure and distribution of electrical charges within: atoms, molecules, ions, compounds
Molecular structure of conductors, semiconductors and insulators.

1.2 Static electricity and distribution of electrostatic charges
Electrostatic laws of attraction and repulsion; Units of charge, Coulomb's Law
Conduction of electricity in solids, liquids, gases and a vacuum.

1.3 The following terms, their units and factors affecting them:
Potential difference, electromotive force, voltage, current, resistance, conductance, charge, conventional current flow, electron flow.

1.4 Production of electricity by the following methods: light, heat, friction, pressure, chemical action, magnetism and motion.

1.5 Construction and basic chemical action of: primary cells,secondary cells

Lead acid cells
Nickel cadmium cells, other alkaline cells
Cells connected in series and parallel;•
Internal resistance and its effect on a battery
Construction, materials and operation of thermocouples
Operation of photo-cells.

1.6 Ohms Law
Kirchoff's Voltage and Current Laws
Calculations using the above laws to find resistance, voltage and current;
Significance of the internal resistance of a supply.

SYLLABUS FOR SEMESTER I (Theory)

1. ELECTRICAL FUNDAMENTALS Course Code FCE

1.7 Resistance and affecting factors

Specific resistance; Resistor colour code, values and tolerances, preferred values, wattage ratings

Resistors in series and parallel; Calculation of total resistance using series, parallel and series parallel combinations

Operation and use of potentiometers and rheostats

Operation of Wheatstone Bridge.Positive and negative temperature coefficient conductance

Fixed resistors, stability, tolerance and limitations, methods of construction; Variable resistors, thermistors, voltage dependent resistors

Construction of potentiometers and rheostats; Construction of Wheatstone Bridge

1.8 Power,

Work and energy (kinetic and potential);

Dissipation of power by a resistor; Power formula;

Calculations involving power, work and energy.

1.9 Operation and function of a capacitor;

Factors affecting capacitance area of plates, distance between plates, number of plates, dielectric and dielectric constant,

Working voltage, voltage rating

Capacitor types, construction and function

Capacitor colour coding

Calculations of capacitance and voltage in series and parallel circuits

Exponential charge and discharge of a capacitor, time constants; Testing of capacitors.

SYLLABUS FOR SEMESTER I (Theory)

2. BASIC AERODYNAMICS COURSE CODE: FCA

2.0 **BASIC AERODYNAMICS Total Credits:6 Hours 180**

2.1 International Standard Atmosphere (ISA), application to aerodynamics.

2.2 Airflow around a body

Boundary layer
Laminar and turbulent flow, free stream flow, relative airflow,
Upwash and downwash, vortices, stagnation;
The terms: camber, chord, mean aerodynamic chord,
Profile (parasite) drag, induced drag,
Centre of pressure, angle of attack,
Wash in and wash out,
Fineness ratio, wing shape and aspect ratio;
Thrust, Weight, Aerodynamic Resultant;
Generation of Lift and Drag: Angle of Attack, Lift coefficient, Drag coefficient, polar curve, stall;
Aerofoil contamination including ice, snow, frost.

2.3 Relationship between lift, weight, thrust and drag;
Glide ratio; Steady state flights,
Performance;Theory of the turn;
Influence of load factor: stall, flight envelope and structural limitations;
Lift augmentation.

2.4 Longitudinal stability (active and passive).
Lateral stability (active and passive).
Directional stability (active and passive).

SYLLABUS FOR SEMESTER I (Practicals)

1. ELECTRICAL FUNDAMENTALS Course Code : FCE

1.0 ELECTRICAL FUNDAMENTALS Total Credits:2 Hours: 60

1.1 Generation of Electricity .
Construction details of Lead Acid Battery
Construction details of NiCad batteries

1.2 To establish Current, Voltage, relationship verified and Ohms Law.
To use a Multimeter for different purposes
Familiarization of Kirchoff's Laws

1.3 To find unknown Resistance using Wheatston`s Bridge.
Familiarization of Potentiometers and Rheostats.
Familiarization of various types of resistors
Familiarization of Series Circuit
Familiarization of Parallel Circuit
Colour Coding of Resistors

1.4 Familiarization of various types of Capacitors
Charging and Discharging of Capacitors

SYLLABUS FOR SEMESTER I (Practicals)

2. BASIC AERODYNAMICS Course Code:FCA

2.0 BASIC AERODYNAMICS Total Credits:2 Hours : 60

2.1 Demonstration of Bernoulli's principle and its applications.

Identification of different Aero foils , primary and secondary controls

Demonstration of Boundary Layer, Laminar, Turbulent flow, AOA, Washout, Aerofoil Contamination including Ice, Snow and Frost. (with the help of Video films and other aids.)

2.2 Main parts of aircraft, Femiliarisation of Basic Aircraft Controls
(Response of Control Surface for the action of Control Column)

2.3 Demonstration of Drag and various types of drags.
Identification of various Lift Augmentation devices- Flaps, Slats, and different types of Flaps.
L-D Curves for Basic understanding of Lift Drag relation and understanding of Four Forces acting on Aircraft in flight.

2.4 Demonstration of Positive, Negative and Neutral Stability and Longitudinal, Lateral and Directional Stability (With the help of Video films and other aids).

SYLLABUS FOR SEMESTER II (Theory)

1.BASIC WORKSHOP Course Code: FCW Hours 180

1.0 Topic

BASIC WORKSHOP Total Credits:6

1.1 Aspects of safe working practices including precautions to take when working with electricity, gases especially oxygen, oils and chemicals.

Also, instruction in the remedial action to be taken in the event of a fire or another accident with one or more of these hazards including knowledge on extinguishing agents.

1.2 Care of tools, control of tools, use of workshop materials;
Dimensions, allowances and tolerances, standards of workmanship;
Calibration of tools and equipment, calibration standards.

1.3 Common hand tool types;
Common power tool types;
Operation and use of precision measuring tools;
Lubrication equipment and methods.
Operation, function and use of electrical general test Equipment.

1.4 Drawing types and diagrams, their symbols, dimensions, tolerances and projections;
Identifying title block information Microfilm, microfiche and computerized presentations;
Specification 100 of the Air Transport Association (ATA) of America;

Aeronautical and other applicable standards including ISO, AN, MS, NAS and MIL
Wiring diagrams and schematic diagrams

SYLLABUS FOR SEMESTER II (Theory)

1.Basic Workshop Course Code :FCW

BASIC WORKSHOP Total Credits :2 Hours 180

1.5 Drill sizes for bolt holes, classes of fits;
Common system of fits and clearances;
Schedule of fits and clearances for aircraft and engines;
Limits for bow, twist and wear;
Standard methods for checking shafts, bearings and other parts.

1.6 Soldering methods; inspection of soldered joints.
Welding and brazing methods;
Inspection of welded and brazed joints;
Bonding methods and inspection of bonded joints.

SYLLABUS FOR SEMESTER 2 (Theory)

SYLLABUS FOR SEMESTER II (Theory)

2. AIRCRAFT MATERIALS AND HARDWARE Course Code : ECMH

2.0 AIRCRAFT MATERIALS AND HARDWARE Total Credits :6 Hours 180

2.1 Characteristics, properties and identification of common alloy steels used in aircraft;
Heat treatment and application of alloy steels;
Testing of ferrous materials for hardness, tensile strength, fatigue strength and impact resistance.

2.2 Characteristics, properties and identification of common non-ferrous materials used in aircraft;
Heat treatment and application of non-ferrous materials.
Testing of non-ferrous material for hardness, tensile strength, fatigue strength and impact resistance.

2.3 Construction methods of wooden airframe structures;
Characteristics, properties and types of wood and glue used in aeroplanes;
Preservation and maintenance of wooden structure;
Types of defects in wood material and wooden structures;
The detection of defects in wooden structure; Repair of wooden structure.

2.4 Chemical fundamentals; • Formation by, galvanic action process, microbiological, stress;
Types of corrosion and their identification;
Causes of corrosion; • Material types, susceptibility to corrosion.

2.5 Fasteners
Screw nomenclature;
Thread forms, dimensions and tolerances for standard threads used in aircraft;
Measuring screw threads;
Bolt types: specification, identification and marking of aircraft bolts, international standards;
Nuts: self locking, anchor, standard types
Machine screws : aircraft Specifications ;Studs: types and uses, insertion and removal
Self tapping screws, dowels.

SYLLABUS FOR SEMESTER II (Practicals)

1. BASIC WORKSHOP Course Code : FCW

1.0 BASIC WORKSHOP Total Credits:2 Hours 60

1.1 Aspects of safe working practices including precautions to take when working with electricity, gases especially oxygen, oils and chemicals.

Also, instruction in the remedial action to be taken in the event of a fire or another accident with one or more of these hazards including knowledge on extinguishing agents.

1.2 Care of tools
control of tools, use of workshop materials
Dimensions Allowances and tolerances Standards of workmanship
Calibration of tools and equipment, calibration standards.

1.3 Common hand tool types
Common power tool types
Operation and use of precision measuring tools
Lubrication equipment and methods.
Operation, function and use of electrical general test Equipment.

1.4 Drawing types and diagrams, their symbols
dimensions, tolerances and projections
Identifying title block information
Microfilm, microfiche and computerized presentations
Specification 100 of the Air Transport Association (ATA) of America

Aeronautical and other applicable standards including ISO, AN, MS, NAS and MIL
Wiring diagrams and schematic diagrams

1.5 Drill sizes for bolt holes, classes of fits
Common system of fits and clearances
Schedule of fits and clearances for aircraft and engines
Limits for bow, twist and wear
Standard methods for checking shafts, bearings and other parts.

SYLLABUS FOR SEMESTER II (Practicals)
Basic Workshop Course Code: FCW

1.0 Basic Workshop Total Credits :2 Hours 60

1.6 Types of Sheet metal bending,
Different types of Sheet metal cutting,
Square cutting practice
Riveting practice
Bull joint practice
Flange Joint practice
Single back plate riveting practice
Double back place riveting practice
Drilling practice

1.7 Soldering methods; inspection of soldered joints.
Welding and brazing methods;
Inspection of welded and brazed joints;
Bonding methods and inspection of bonded joints.

SYLLABUS FOR SEMESTER II (Practicals)
2. MATERIALS AND HARD WARE Course Code : ECMH

2.0 Materials and Hard Ware: **Total Credits : 3 90 Hours**

2.1 Identification of Ferrous materials and Non Ferrous materials,
Demonstration of Heat treatment and application of alloy steels.
Testing of Ferrous materials for Hardness,
Tensile Strength,
Fatigue Strength, and
Impact resistance.

2.2 Testing of Non Ferrous materials for Hardness,
Tensile Strength, Fatigue Strength, and Impact resistance.

2.3 Identification of types of defects in wood materials and wooden structures.
Repair of wooden structures.

2.4 Types of Corrosion and their Identification,
Protection and Preventive treatment.

2.5 Identification of various thread forms,
Measuring Screw Threads.

2.6 Identification of different Bolt types,
Nuts, machine Screws, Studs, Self Tapping Screws.

SYLLABUS FOR SEMESTER III (THEORY)

5.MAINTENANCE PRACTICES Course Code : ECMP

MAINTENANCE PRACTICES Total Credits:6 Hours: 180

1.1 Riveting
Riveted joints, rivet spacing and pitch;
Tools used for riveting and dimpling;
Inspection of riveted joints.

1.2 Pipes and Hoses
Bending and belling/flaring aircraft pipes;
Inspection and testing of aircraft pipes and hoses;
Installation and clamping of pipes.

1.3 Springs
Inspection and testing of springs.

1.4 Bearings
Testing, cleaning and inspection of bearings;
Lubrication requirements of bearings;
Defects in bearings and their causes.
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European Union EN

1.5 Transmissions
Inspection of gears, backlash;
Inspection of belts and pulleys, chains and sprockets
Inspection of screw jacks, lever devices, push-pull
rod systems.

1.6 Control Cables
Swaging of end fittings;
Inspection and testing of control cables;
Bowden cables; aircraft flexible control systems.

SYLLABUS FOR SEMESTER III (Theory)
2. ELECTRONIC FUNDAMENTALS & DIGITAL TECHNIQUES Course Code : ECEF

2.0 ELECTRONIC FUNDAMENTALS & DIGITAL TECHNIQUES-I
Total Credits : 6 Hours: 180

2.1 Transistor symbols ;Component description and orientation;
Transistor characteristics and properties.
Construction and operation of PNP and NPN transistors;
Base, collector and emitter configurations;
Testing of transistors.
Basic appreciation of other transistor types and their uses.
Application of transistors: classes of amplifier (A, B, C);
Simple circuits including: bias, decoupling, feedback and stabilisation;
Multistage circuit principles: cascades, push-pull, oscillators, multivibrators,

Flip-flop circuits.

2.2 Description and operation of logic circuits and linear circuits/operational amplifiers.
Description and operation of logic circuits and linear circuits;
Introduction to operation and function of an operational amplifier used as: integrator, differentiator, voltage follower, comparator;
Operation and amplifier stages connecting methods: resistive
capacitive, inductive (transformer), inductive resistive (IR), direct;
Advantages and disadvantages of positive and negative feedback.

2.3 Description and use of printed circuit boards.

2.4 Understanding of the following terms: Open and closed loop systems, feedback, follow up, analogue transducers;
Principles of operation and use of the following synchro system components/features: resolvers, differential, control and torque, transformers, inductance and capacitance transmitters.
Understanding of the following terms: Open and closed loop, follow up, servomechanism, analogue, transducer, null, damping, feedback, dead band;

Construction operation and use of the following synchro system components: resolvers, differential, control and torque, E and I transformers, inductance transmitters, capacitance transmitters, synchronous transmitters;

Servomechanism defects, reversal of synchro leads, hunting.

2.5 Numbering systems: binary, octal and hexadecimal;
Demonstration of conversions between the decimal and binary, octal and hexadecimal systems and vice versa.

SYLLABUS FOR SEMESTER III (Theory)

2. ELECTRONIC FUNDAMENTALS & DIGITAL TECHNIQUES-I
Course Code:ECEF HOURS 55

2.6 Operation of data buses in aircraft systems,
knowledge of ARINC and other specifications.

2.7 Identification of common logic gate symbols, tables and equivalent circuits;Applications used for aircraft systems, schematic diagrams. Interpretation of logic diagrams.

2.8 Computer terminology (including bit, byte, software, hardware, CPU, IC, and various memory devices such as RAM, ROM, PROM)

Computer technology (as applied in aircraft systems).Computer related terminology
Operation, layout and interface of the major components in a Micro computer including their associated bus systems;
Information contained in single and multi address instruction words
Memory associated terms
Operation of typical memory devices
Operation, advantages and disadvantages of the various data storage systems.

SYLLABUS FOR SEMESTER III (Practical)

1. MAINTENANCE PRACTICES Course Code: ECMP

MAINTENANCE PRACTICES Total Credits:4Hours: 120

1.1 Riveting
Riveted joints, rivet spacing and pitch;
Tools used for riveting and dimpling;
Inspection of riveted joints.

1.2 Pipes and Hoses
Bending and belling/flaring aircraft pipes;
Inspection and testing of aircraft pipes and hoses;
Installation and clamping of pipes.

1.3 10 Springs
Inspection and testing of springs.

1.4 Bearings
Testing, cleaning and inspection of bearings;

Lubrication requirements of bearings;
Defects in bearings and their causes.
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European Union EN

1.5 Transmissions
Inspection of gears, backlash;
Inspection of belts and pulleys, chains and sprockets
Inspection of screw jacks, lever devices, push-pull
rod systems.

1.6 Control Cables
Swaging of end fittings;
Inspection and testing of control cables;
Bowden cables; aircraft flexible control systems.

SYLLABUS FOR SEMESTER I I I (PRACTICALS)

2. ELECTRONIC FUNDAMENTALS AND DIGITAL TECHNIQUES

Course Code : ECEF

2.0 ELECTRONIC FUNDAMENTALS AND DIGITAL TECHNIQUES Total Credits :3 Hours: 90

2.1 Identification of Transistors, Component description and orientation
To Identify the box of Collector and confirm using Multimeter.
Construction and Operation of PNP Transistors
Construction and Operation of NPN Transistors.
Testing of Transistors.
Familiarisation of Push Pull Oscillators,
Familiarisation of multi vibrators,
Familiarisation of flip flop circuits

2.2 Identification of a diode, LED, LCD, IC, Resistor.
Familiarisation of integrator
Familiarisation of Differentiator
Familiarisation of Voltage Follower
Familiarisation of Comparator.

2.3 Operation and Amplifier stages connecting methods: Resistive, Capacitive, Inductive, Inductive resistive, Direct

2.4 Description and use of Printed Circuit Boards.

2.4 Description and operation of Logic Circuits
Description and operation of Linear Circuits/Operational Amplifier.

SYLLABUS FOR SEMESTER IV (Theory)

POWER PLANT CONSTRUCTION Course Code : ECP

1.0 POWER PLANT CONSTRUCTION Total credits:8 Hours 240

1.1 Familiarization with different types of engines such as Piston Engines and gas turbine engine.

1.2 Internal combustion heat engines two stroke and four stroke, inline Radial and opposed engines

1.3 Definitions and terms used in piston engine and classification of engine

1.4 Power and efficiency their calculations

1.5 Fundamental requirements construction, classification, material and components and accessories of engine

1.6 Valve operating mechanism, its parts, valve timing valve clearance their checking and adjustments, instruments and tools used

1.7 Propeller theory, different types of propeller used, their construction, operation Maintenance and trouble shooting Removal and installations procedure De-icing, enticing and synchronization systems Propeller Balancing, tracking Propeller Governors

1.8 Engine Instruments

1.9 Power/Thrust boosting devices like water injection, super charger, turbocharger, their construction, operation and maintenance

1.1 Fuels, oils contamination and prevention.

1.1 Propellers: fixed pitch and variable pitch

1.1 Piston- prop engine: different types and arrangements for multi-cylinder engines

1.1 Jet Engines: Turbo-jet, Turbo-prop, Turbo-fan, fan jet

1.1 Rocket Engines: Solid and Liquid Rocket motors

1.2 Structural features and selection of materials

SEMESTER IV (THEORY)

2. AIRCRAFT ELECTRICAL SYSTEM - I Course Code: ECES

2.0 AIRCRAFT ELECTRICAL SYSTEM - I Total Credits:8 Hours: 240

2.1 Electrical Power (ATA 24)

Batteries Installation and Operation;

DC power generation

AC power generation;

Emergency power generation;
Voltage regulation;
Power distribution;
Inverters, transformers, rectifiers;
Circuit protection;
External/Ground power.

SEMESTER IV (Practical)

2.AIRCRAFT ELECTRICAL SYSTEM Course Code: ECES

1.0 AIRCRAFT ELECTRICAL SYSTEM Total Credits:2
Hours: 60

1.1 Electrical Power (ATA 24)
Batteries Installation and Operation;
DC power generation
AC power generation;
Emergency power generation;
Voltage regulation;
Power distribution;
Inverters, transformers, rectifiers;
Circuit protection;
External/Ground power.

SYLLABUS FOR SEMESTER V (THEORY)

1.AIRCRAFT INSTRUMENT SYSTEMS Course Code : ECIS Hours: 240

1.0 AIRCRAFT INSTRUMENT SYSTEM - I Total Credits:8

1.1 Instrument Systems (ATA 31)
Classification;
Atmosphere;
Terminology;
Pressure measuring devices and systems;
Pitot static systems;
Altimeters;
Vertical speed indicators;
Airspeed indicators;
Machmeters;
Altitude reporting/alerting systems;
Air data computers;
Instrument pneumatic systems
Direct reading pressure and temperature gauges;
Temperature indicating systems;

Fuel quantity indicating systems;

SYLLABUS FOR SEMESTER V (THEORY)

COMMUNICATION & NAVIGATION SYSTEM Course Code:ECCN

2.0 COMMUNICATION & NAVIGATION SYSTEM - I Total Credits:8 Hours: 240

2.1 Communication/Navigation (ATA 23/34)

Fundamentals of radio wave propagation, antennas, transmission lines, communication, receiver and transmitter

Simple Radio Reciever and explanation
Inter communication System in A/c Radio
H/F R/T function & purpose of the system
VHF R/T function & purpose of the system
Antenna theory explanation & different types of antennas available in A/b Radio equipments
Types of Transmission lines used in A/c radio communication system
Simple B/D of Transmitter & Receiver, including B/D & function of trans receiver used in A/c Radio/Radar equipments

SYLLABUS FOR SEMESTER V (Practical)

1.AIRCRAFT INSTRUMENT SYSTEM Course Code: ECIS

1.0 AIRCRAFT INSTRUMENT SYSTEM Total Credits:1 Hours: 30

Pressure measuring devices and systems;
Pitot static systems;
Altimeters;
Vertical speed indicators;
Airspeed indicators;
Machmeters;
Altitude reporting/alerting systems;
Air data computers;
Instrument pneumatic systems
Direct reading pressure and temperature gauges;
Temperature indicating systems;
Fuel quantity indicating systems;

SYLLABUS FOR SEMESTER V (Practical)

2.COMMUNICATION & NAVIGATION SYSTEM Course Code:ECCN

Hours: 30

2.0 COMMUNICATION & NAVIGATION SYSTEM Total Credits:1

communication, receiver and transmitter

Simple Radio Reciever and explanation
Inter communication System in A/b Radio
H/F R/T function & purpose of the system
VHF R/T function & purpose of the system
Antenna theory explanation & different types of antennas available in A/b Radio equipments
Types of Transmission lines used in A/b radio communication system
Simple B/D of Transmitter & Receiver, including B/D & function of trans receiver used in A/b Radio/Radar equipments

SYLLABUS FOR SEMESTER VI (Theory)

SPACE TECHNOLOGY Course Code:AOST

S.No Topics

SPACE TECHNOLOGY Total Credits:3 **Hrs 90**

1.0 **Introduction**: Space Mission- Types-Space Environment - Launch Vehicle Selection

1.1 **Fundamentals of Rocket Propulsion:** Introduction to rocket propulsiton fundamentals of solid propelant rockets Fundamentals of liquid propelant rockets - Rockets - rocket equation

1.2 **Ascent Flight Mechanics of Rockets and Missiles:** Two-dimensional trajectories of rockets and missiles - Multi - stage rockets - Vehicle sizing - Two stage Multi - stage Rockets - Trade - off Ratios -single stage to Orbit sounding Rocket - Aerospace Plane - Gravity Turn Trajectories- Imapct point calculation - INjection conditions - Flight dispersions

1.3 **Atmospheric Reentry:** Introduction - Steep Ballistic Reentry- Ballistic Orbital Reentry - Skip Teentry - "Double-Dip" Reentry - Aero-braking - Lifting Body Reentry

1.4 **Fundamentals of Orbital Mechanics:** Two-body motion - Circular, elliptic, hyperbolic, and parabolic orbits - Basic Orbital Elements - Ground Trace

SYLLABUS FOR SEMESTER VI (Theory)

Aero Space Propulsion Course Code:AOAP

S.No Topics

2.0 Aero Space Propulsion Total Credits:2 **Hrs 60**

2.1 **Fundamentals of Gas Turbine Engines:** Illustration of working of gas turbine engine-The thrust equation - Factors affecting thrust -Effect of pressure, velocity and tempeature changes of air entering comprssors - methods of thrust augmentation - characterisitcs of turbo prop, turbojet - Performance characteristics.

2.2 Combustion Chambers and performance : Classification lof combustion chamebrs - Important factors affecting combustion chamber desing - Combustion process - Combustion chamber performance.

2.3 **Nozzles:** Theory of flow in isentropic nozzles - Convergent nozzles and nozzle choking - nozzle throat conditions - Nozzles efficiency - losses in nozzles Over -expanded and under - expanded nozzles - Ejector and variable area nozzles - Interaction of nozzle flow with adjacent surfces - Thrust reversel

2.4 Centrifugal Compressors: Principles of operation of centrifugal compressors - Work done and pressure Rise - Velocity diagrms - Diffuser vane design considerations - Concept of Prewhirl - Rotating stall

2.5 Axial Flow Compressors: Elementry theory of axial flow compressor - Velocity traingles - Degree of reaction - Three dimensional Flow- Air angle distribution for free vortex and constant rection designs - Compresosr blade design - Centrifugal and Axial compressor performance characteristics

SYLLABUS FOR SEMESTER VI (Practical)

AUTOCAD LAB Course Code : AOAC

S.No	Topics	Hrs 120
1.0	**AUTOCAD LAB TOTAL CREDITS :4**	
1.1	**2D Sketching**	
	Drawing Simple Objects	
	Lines,Polylines,Construction Lines	
	Drawing of Polygon	
1.2	**Creating 3D Objects**	
	Conversion of 2D into 3D	
	Use of Bullien Operation	
	Union	
	Intersection	
	Suppression	
	Assembly of different parts	

SYLLABUS FOR SEMESTER VI (Practical)

C Programming Course Code : AOC

S.No	Topics	Hrs 90
2.0	**C Programming Total Credits: 3**	
2.1	Basic Concepts	
	Data Types	
	Examples	
	Operators	
	Evaluvations,Prescedence Operator	
2.2	Functions	
	Types	
	Catogeries	
	Storage classes	

2.3 Arrays
Single dimensions
2 Dimensions
Multi Dimensions
Functions,Strings,Pointers

2.4 Structures
Structures within Structures
Arrays within Structures,Functions,pointers

2.5 Files
Operations