

School of Aeronautics (D)

E 1071, Palam Extension, Part 1, Sector 7, Dwarka, New Delhi 110077.

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Airlaw & Airworthiness Requirements-II	AREEB MIRZA	CAR Section-2, Part-III of F Series Sub: Validation and suspension of certificate of Airworthiness Knowledge of a. Rule 50 of Aircraft Rules 1937 b. Rule 55 (Sub rule 2) c. Sub Rule 6 of Rule 50	27/02/2016
		VIKAS KAUSHIK	CAR Section-2, Part-XV of F Series Sub: Requirement for manufacture, registration and Airworthiness control of hot air balloons Knowledge of a. Balloons means a nonpower driven lighter than air aircraft b. Hot Air Balloon c. Knowledge of CAR-21	27/02/2016
		ADITYA THAKUR	Series F, Part-XI Sub: This part of Civil Airworthiness Requirements specifies the procedure for the duplicate inspection of flying controls, Engine Control and Associated Control Systems, the failure of which could jeopardize the safety of the aircraft	27/02/2016

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
		RAM KUMAR	Load and Trim Sheet (CAR Series F, Part-22) Sub: Rule 2 of Rule 58 of the aircraft rules 1937 Knowledge of Requirement of qualified staff for preparing load and trim sheet. Sample of Load and Trim Sheet	05/03/2016
		RAJJYOTI	Series L, Part-XIII Sub: Requirements for Evaluation, Certification and Maintenance of A/c flight simulator and synthetic flight training devices Knowledge of The knowledge of advanced technology of flight training devices Reduced cost of training to the operators No person or the operator or organization shall operate aircraft flight simulator & synthetic equipment more than 5700 kg weight of A/c	05/03/2016
		ANUBHA	CAR Section-2, Series M, Part-I Sub: Mandatory Continuing Airworthiness Information (MCAI) including airworthiness directions Knowledge of Rule 49D, Rule 52 for safe operation of Aircraft	05/03/2016

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
		SUNIL KUMAR	CAR Section-2, Series H, Part-I Sub: Commercial Helicopter Operations Knowledge of a. Rule 29 C b. Rule 133 A c. ICAO Annexure-6, Part-III d. Helicopter use for commercial purpose not applicable for Military Helicopters Customs Police series and Fire fittings	12/03/2016
		HARSHIT KUMAR	CAR Section-2, Series R, Part-II Maintenance of Air borne Communication, Navigation and Radar equipment Knowledge of Sub Rule -3 of Rule 9 and Rule 57 AMO, COSL knowledge in accordance with Series F, Part VIII	12/03/2016
		AJEET KUMAR	CAR Section-2, Series R, Part-II Sub: Installation of communication, navigation and Radar equipment 1. Knowledge of Rule-9, Sub Rule -3 & Rule-57 2. Procedure for installation as per the said rules	12/03/2016

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
		AREEB MIRZA	CAR Section-2, Series O, Part-VI Sub: Registration, Airworthiness and operation of Power Hand Gliders Knowledge of Gliders, their registration and airworthiness Wt of single seater less than 275 kg Wt of double seater Glider greater than 375 kg Aerobatic flight, Airport Control Powers Air traffic Control Clearance	19/03/2016
		VIKAS KAUSHIK	CAR Section-2 Airworthiness, Series O, Part-II Sub: Operation of commercial air transport Aeroplanes ICAO Annexure -6, Part -I 1. Knowledge of Minimum operational, equipment and requirement of instruments for aeroplanes registered in India for domestic and international air transport 2. Aerodrum Operating Minima, RVR, Decesion height/Altitude, Landing operation etc.	19/03/2016
		ADITYA THAKUR	CAR 145 Sub: Approval of Maintenance Organizations Knowledge of	19/03/2016

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
		RAM KUMAR	<ul style="list-style-type: none">a. Technical requirementsb. Acceptable means of compliancec. Guidance Materiald. CAR 145 revision 0 was introduced on 26 Jan.2005 which was primarily based on EASA, Part-145 regulation to meet the international requirements <p>CAR Series X, Part-III Sub: Provision of Medical supplies in aircraft Knowledge of</p> <ul style="list-style-type: none">a. Rule 57b. Use of Firstaid Kitc. Medical Kitd. Universal Precaution Kit	26/03/2016
		RAJYOTI	<p>CAR - 21 Sub: Certification procedures for aircraft and related products and parts Knowledge of</p> <ul style="list-style-type: none">a. Rule 50 of A/c rules 1937b. Rule 49, 49A and 49B	26/03/2016

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
02	Electrical Fundamentals	ANUBHA	with the objective of compliance with these rules CAR 21 was drawn up CAR Series R, Part-IV Sub: Intallation of Mode 'A/C' and Mode 'S' transponders Should have the Knowledge of MSAW (Minimum Safe Altitude Warning) Knowledge of ICAO Annexure-6, Part-I and (APANPIRG) Asia Pacific Air Navigation Planning and Implimentation Regional Group.	26/03/2016
		AREEB MIRZA	Electron Theory and Modular Structures of Conductor Insulator & Semiconductor	02/04/2016
		VIKAS KAUSHIK	Electrostatic Law of attraction Repulsion unit of Charge	02/04/2016
		ADITYA THAKUR	Electrical Terminology Node, Branch, Loop, Mesh Resistance, Voltage, Current Conductance	02/04/2016
		RAM KUMAR	Generation of Electricity Production of Electricity by Light, Heat, Chemical action, Wind, Magnetism, Motion	09/04/2016

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
		RAJJYOTI	Source of Electricity (Direct Current) construction & basic chemical action of <ul style="list-style-type: none">* Primary Cell, Secondary Cell* Lead Acid Cells* Nickel Cadmium Cell* Alkamine Cell	09/04/2016
		ANUBHA	Laws in D.C. Circuit <ul style="list-style-type: none">* Ohm's Law* Kirchhoff's Law* Voltage Law* Current Law	09/04/2016
		SUNIL KUMAR	What are the factors affecting resistance <ul style="list-style-type: none">* Specific Resistance* Resistance colour coding & tolerance	16/04/2016
		HARSHIT KUMAR	Negative Temperature coefficient of Resistance <ul style="list-style-type: none">* Fixed Resistor* Variable Resistor* Rheostat	16/04/2016

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
		AJEET KUMAR	Operation Function and Factor effecting capacitance * Capacitor Colour Coding * In Series and Parallel	16/04/2016
		AREEB MIRZA	Theory of Magnetism and various types of Magnetic Material * Faraday's Law * Diamagnetic Material Paramagnetic Material * Fero Magnetic Material	23/04/2016
		VIKAS KAUSHIK	Action of Inducing a voltage in a conductor moving a magnetic field * Faraday's Law	23/04/2016
		ADITYATHAKUR	Construction & Components of DC Motor * Factors effecting torque, speed * Direction of rotation * Types (Series, shunt & compound)	23/04/2016
		RAM KUMAR	Construction & Component of DC Generator * Self excited * Seperately excited * Factors affecting output, Direction of current flow	30/04/2016

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
03	Digital Techniques Electronic Instrument Systems-I	RAJJYOTI	Transformer Construction Principle & Operation * Transformer action on no load, Load and short circuit	30/04/2016
		ANUBHA	Operation & Construction of Revolving armature & Revolving field type * Types of alternator * Single Phase/Three Phase	30/04/2016
		SUNIL KUMAR	Construction, Principles of operation of AC Motor * Single Phase - Three Phase * Induction Motor - Single Phase -Three Phase	07/05/2016
		RAM KUMAR	Numbering System and their use and * Binary * Decimal * Octal * Hexa decimal	07/05/2016
		RAJJYOTI	Demonstration of conversion between the numbers * Decimal to Binary and Vice Versa * Decimal to Octal and Vice Versa * Decimal to Hexa and Vice Versa	07/05/2016

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
		ANUBHA	Need of Data Conversion * Analog Signal * Digital Signal * Advantage of Digital System	14/05/2016
		SUNIL KUMAR	Types of Analog to Digital Conversion * Ramp type * Succative type * Integration type * Dual type	14/05/2016
		HARSHIT KUMAR	Needs of Digital to Analog conversion * Application and limitation * Types of D/A conversion * Weighted resistor D/A convertor * R-2R Ladder D/A convertor	14/05/2016
		AJEET KUMAR	Fundamental of Computer * CPU * I/O devicer	27/02/2016
		AREEB MIRZA	Types of Logic Gates and their Truth Table * AND Gate	05/03/2016

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
		VIKAS KAUSHIK	<ul style="list-style-type: none">* NOT Gate* OR Gate* NAND Gate* NOOR Gate* Ex OR Gate & Ex NOR Gate Interpretation of Logic Diagram	12/03/2016
		ADITYATHAKUR	<ul style="list-style-type: none">* SOP* POS* Karnagraph map of representation of Logic circuit Types of Digital Circuit	26/03/2016
		RAM KUMAR	<ul style="list-style-type: none">* Combinational* Sequential* S-R Flip-Flop Types of flip-flop working and Truth Table	19/03/2016
			<ul style="list-style-type: none">* SR* J.K.* D* T	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
		RAJJYOTI	Basic Computer Structure * Bit, Bite * C.P.U. * Various memory device RAM, ROM, EP ROM	02/04/2016
		ANUBHA	Operation, Lay out and Interface of the major components in a micro-computer	16/04/2016
		SUNIL KUMAR	Function performance and overall operation of a microprocessor	09/04/2016
		HARSHIT KUMAR	Operation and use of Encoder and Decoder * Types of Encoder * Decimal to BCD Encoder	23/04/2016
		AJEET KUMAR	Operation, application and identification in logic diagram of Multi Plexer and de Dmultiplexer	30/04/2016