

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Helicopter Theory	Reg. No. 1028 RAHUL PASI 13-11	Rotary wing Aerodynamics <ul style="list-style-type: none"> * Explain the various Aerodynamics of a Helicopter * How they are different from fixed wing Helicopter * What are the Aerodynamic forces acting on it * How they can altered 	07/09/2019 Rahul Pasi
02	Helicopter Theory	Reg. No. 1039 RUPESH SINGH B-11	Various Effects <ul style="list-style-type: none"> * Explain the following effects related to rotary wing Aircraft (Figure, block diagram, graph etc.) * Gyroscopic effect * Coriolis effect * Vortex Ring State * Ground effect 	07/09/2019 Rupesh Singh
03	Helicopter Theory	Reg. No. 1044 ADHUNIK ABHINAV B-11	Dissymmetry of lift <ul style="list-style-type: none"> * Mean of Dissymmetry of lift * Its effects on flying path & condition * How they can be controlled * Various components used to control it 	07/09/2019 Adhunik

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
04	Helicopter Theory	Reg. No. 1050 RAJ KUMAR B-11	Various Phenomenons * Explain the following in detail * Vortex ring state * Power settling * Over pitching * Auto rotation	28/09/2019 Raj Kumar
05	Helicopter Theory	Reg. No. 1063 MAHA PRADHVI MUMMARRIDDY B-11	Flight control system (Part-) * Explain the following control systems * Cyclic control * Yaw control * Swash plate * Uses of the above	28/09/2019
06	Helicopter Theory		Flight control system (part-2) * Explain the following control system - Collective control - Cyclic control - Anti torque control * Uses of the above	
07	Helicopter Theory		Main Rotor (MR) * Explain the design and operation features of MR * MR construction and attachment	



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Ms. Deepali

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Aerodynamics-	Reg. No. 1006 Aman Ahluwalia B-10	Basic Aerodynamics equations * Continuity equation * Momentum equation * Energy equation * State equation * Velocity of sound	31/08/2019 
02	Aerodynamics-	Reg. No. 1007 JASMEET GUJLATI B-10	Nozzles * Subsonic Nozzle * Supersonic Nozzle * Throat * Converging passages * Diverging passages	31/08/2019 
03	Aerodynamics-	Reg. No. 1008 ADITYA KUMAR B-10	Diffusers * Subsonic diffuser * Supersonic diffuser * Converging passages * Diverging passages * Throat	31/08/2019

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
04	Aerodynamics-	Reg. No. 1076 AREEB MIRZA B-11	Normal shock * Parental equation * Pressure relation * Temperature relation * Density relation * Rankine-Huguenot relation	14/09/2019
05	Aerodynamics-	Reg. No. 1047 DEEPAK RAS POUDIEL B-11	Oblique shock * Shock generation * Pressure relation * Temperature relation * Density relation * Pressure turning angle	14/09/2019 Deepali
06	Aerodynamics-	Reg. No. 1077 Divya Chauhan B-11	Expansion waves * Introduction to Expansion Fans * Odograph (Expansion) * Reflection and interaction of shocks * Convex corner flow * Pressure relation	14/09/2019 Divya

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
07	Aerodynamics-	Reg. No. 1025 SANDEEP MOHANTY B-10	High speed Aerofoil * Critical Mach number * Drag divergent Mach number * Sweep back wing * Sweep forward wing * Transonic area rule	28/09/2019
08	Aerodynamics-	Reg. No. 1026 SONALI CHAUDHURY B-10	Characteristic of swept wing * Effect of Thickness * Effect of camber * Effect of aspect ratio * Tip effect * Drag estimation of wing	28/09/2019 Sonali 20-08-19
09	Aerodynamics-	Reg. No. 1032 THATIKONDA B-10	Linearize supersonic flow theory * Lift in supersonic flow * Drag in supersonic flow * Pitching moment in supersonic flow * Centre of pressure in supersonic flow * Critical mach number	28/09/2019

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Aircraft Performance	Reg. No. 998 MOHAMMED K B-11	International Standard Atmosphere * Troposphere * Stratosphere * Mesosphere * Thermosphere * Exosphere	31/8/2019
02	Aircraft Performance	Reg. No. 1057 SUMIT KUMAR B-11	Altitude * Geopotential Altitude * Geometric Altitude * Pressure Altitude * Temperature Altitude * Density Altitude	31/08/2019
03	Aircraft Performance	Reg. No. 1088 CHAVAN PRAKASH B-11	Airspeed Indicator * Indicator air speed * Computed air speed * Calibrated air speed * Equivalent air speed * True air speed	31/08/2019

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
04	Aircraft Performance	Reg. No. 1004 ASHUTOSH SINGH B-11	Primary Flight Instrument * * Altimeter * Airspeed indicator * Vertical speed indicator * Turn-bank indicator * Gyroscope	21/09/2019 Ashutosh Singh
05	Aircraft Performance	Reg. No. 1083 VIVEK AGRYA B-11	Drag * Profile drag * Wave drag * Induced drag * Drag at zero lift condition * Drag polar	21/09/2019 Vivek
06	Aircraft Performance	Reg. No. 1086 AMOD RANJAN B-11	Pressure distribution over airfoil * At 4° angle of attack * At 0° angle of attack * At 4° angle of attack * At 12° angle of attack * At 20° angle of attack	21/09/2019 Amod Ranjan

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Maintenance of Airframe and Design	Reg. No. 1019 GAURAV B-10	Pressurization System * Details of premium system and its requirements.	21/09/2019 Gaurav
02	Maintenance of Airframe and Design	Reg. No. 1021 PAWAN KUMAR B-10	Inspection gauges * Various types of inspection gauges its need and places of its uses.	21/09/2019 Pawan
03	Maintenance of Airframe and Design	Reg. No. 1024 ARSHDEEP B-10	Major Inspections * Major damages, damage to license, and equations for major inspections.	21/09/2019 Arshdeep
04	Maintenance of Airframe and Design		Peciodic Inspections * What is peciodic Inspection * Requirements of peciodic Inspections as per CAR	

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Finite Elements Methods	Reg. No. 1009 AKASH S B-10	An introduction to use of finite elements procedure * Physical problem, mathematical models and finite elements solution * Effectiveness of a mathematical model * Reliability of a mathematical model	07/09/2019 SALIF
02	Finite Elements Methods	Reg. No. 1011 SUKHAR SINGH B-10	Finite Elements Analysis as Integral part of Computer aided design * Geometry generation * Finite elements analysis * Kinematic analysis * Automatic drafting	07/09/2019
03	Finite Elements Methods	Reg. No. 1013 HITESH SWARMA B-10	Introduction to matrices * Symmetric, diagonal and banded matrices, A storage scheme * Metric equality addition and multiplication by a scalar	07/09/2019 SHARMA
04	Finite Elements Methods	Reg. No. 1002 ABHINAVRAA LAKHARA B-10	Stiffness metric and boundary conditions * Elements stiffness matrix * Global stiffness matrix * Boundary conditions	24/09/2019 ABHINAVRAA

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- Ms. VARSHA

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
05	Finite Elements Methods	Ryudo. 1033 RAMANJOT SINGH B-10	Raleigh Ritz method * Energy principle * Potential energy function * Virtual work principle	24/09/2019 Ramanjot Singh
06	Finite Elements Methods	Regno. 1034 SOURABH MISHRA B-10	Shape function * Approximation of continues models * Discretisation and interpolation * Linear, quadratic shape functions	24/09/2019
07	Finite Elements Methods		Isoparametric formulations * Elements types * Displacement function * Stress strain function * element equations Weighted residual methods	
08	Finite Elements Methods		* General formulation * Sub domain method * Collocation method * Least squares method	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Aircraft Stability and Control	Reg. No. 1014 VAIBHAV PANDAY B-10	Longitudinal static stability for wing and tail combination * Force acting on combination * Moments acting on combination * Moments equation * Stability condition	14/09/2019 Pandey
02	Aircraft Stability and Control	Reg. No. 1017 ABHINAV PANDAY B-10	Factors affecting the tail contribution in longitudinal static stability * $\frac{d\xi}{d\alpha}$ factor * Dynamic pressure on tail plane * Tail volume coefficient.	14/09/2019 Abhinav Pandey
03	Aircraft Stability and Control	Reg. No. 1018 BRAMH DEO B-10	Neutral point and static margin * What is neutral point? * cause of movement of C.G * Effect of after movement of c.g. * Static margin in stick fixed /stick free condition * Comparison	14/09/2019 Brahma Deo
04	Aircraft Stability and Control	Reg. No. 1099 ABDULLAH ALAM B-11	Stick free static longitudinal stability * What is stick free condition * What is elevator hinge moment coefficient * What is wing moment constants	24/09/2019 Abdullah Alam

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
05	Aircraft Stability and Control	Reg. No. 1010 SURAJ KUMAR B-11	Phugoid * What is phugoid * Cause of phugoid * Recovery from phugoid	24/09/2019
06	Aircraft Stability and Control	Reg. No. 1012 NARVI MOHAMMADABBAS B-11	Damping effects in Lateral motion due to disturbance * Disturbance in Lateral * Effect in roll * Damping in roll * Cause of damping in roll	24/09/2019
07	Aircraft Stability and Control		Damping effect in directional disturbances * Cause of disturbance * Effect of disturbance * Cause of damping effect * Control involving in restoring the aircraft	
08	Aircraft Stability and Control		Effects of wing in Lateral and directional static stability * Wing dihedral effect * Wing sweep back effect	
09	Aircraft Stability and Control		Uses of rudder as a control to- * Control direction on ground * Recovery from a spin	