

# School of Aeronautics (Neemrana)

I-04, RIICO Industrial Area, Neemrana, Dist. Alwar, Rajasthan

B.Tech. Semester -8

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	CAD	Nand kishore (S14)	Design and manufacturing using CAD/CAM * Product development * Systematic approach to tolerances * Manufacturing cost * Global optimization technique * Material handling * Advantages and disadvantages	12/5/16
02	CAD	Tulsi Ram Bhasgaur (S15)	Advance trends in CAD/CAM * CAD/CAM software * NC/CNC machine tools * Interfaced with digital technologies * Material handling * CAD/CAM	12/5/16
03	CAD	Rupesh Kumar (S45)	Various application of CAD/CAM * Drafting and annotation * Simulation and analysis * Automobile industry * Aeronautics and aviation * Ergonomics	12/5/16
04	CAD	Himanshu Khare (S48)	CAD/CAM market trends * Aerospace * Automation * Construction * Architecture and engineering * Research * Electrical and electronics	12/5/16

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
05	CAD	Om prakash (551)	Auto CAD MEP ( Mechanical, Electrical & plumbing) <ul style="list-style-type: none"><li>* MEP design and drawing tools</li><li>* Creation and coordination</li><li>* Commercial facilities</li><li>* Life style and luxury</li><li>* Human comfort</li></ul>	12/5/16
06	CAD	Ajja wal (552)	Solid modeling <ul style="list-style-type: none"><li>* Solid representation</li><li>* Boundary representation</li><li>* Constructive solid geometry</li><li>* CAD database structure</li></ul>	12/5/16
07	CAD	Md. Saboor (699)	Surface modeling <ul style="list-style-type: none"><li>* Mathematical representation</li><li>* Surface models</li><li>* Surface entities and representation</li><li>* Parametric representation of surfaces</li><li>* NURBS</li></ul>	12/5/16
08	CAD		Advance modeling concepts <ul style="list-style-type: none"><li>* Feature based modeling</li><li>* Assembly modeling</li><li>* Parametric and variation modeling</li><li>* Tolerance modeling</li><li>* Analysis and synthesis</li></ul>	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Maintenance of Power Plant and Systems	Amitabh Ghosh (554)	Explain about various designs of piston engines and their firing orders <ul style="list-style-type: none"><li>* Airline engines</li><li>* Horizontal opposed</li><li>* "V" shape</li><li>* Radio</li><li>* Firing orders</li></ul>	11/5/16
02	Maintenance of Power Plant and Systems	Amir Khan (561)	Components of piston engine and their functions <ul style="list-style-type: none"><li>* Cylinder</li><li>* Piston</li><li>* Connecting rods</li><li>* Crank shaft</li><li>* Accessories gear box</li></ul>	
03	Maintenance of Power Plant and Systems	Ajoo Adhikari (562)	Explain about valve operating mechanism and valve timing <ul style="list-style-type: none"><li>* Cam shaft</li><li>* Tappets</li><li>* Rocker mechanism</li><li>* Valves</li><li>* Valve timing</li></ul>	11/5/16

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
04	Maintenance of Power Plant and Systems	Jugal Kishore (448)	Explain the construction and function of magnetos and magneto timing * Magnet * Coils * Condenser * CB points * Distribution block * Magneto timing	12/5/16
05	Maintenance of Power Plant and Systems		Construction and function of pressure differential type carburettor. * Air chambers * Fuel chambers * Diaphragm operated valve * Venturies * Spray nozzle * Throttle Valve	
06	Maintenance of Power Plant and Systems		Construction and function of centrifugal types of compressors * Disc and vanes * Air path * Diffuser vanes	
07	Maintenance of Power Plant and Systems		Construction and function of axial type of compressors * Stator / rotor * Single spool * Multi spool * Function of Vanes	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
08	Maintenance of Power Plant and Systems		Construction and function of various types of combustion chambers <ul style="list-style-type: none"><li>* Cannular type</li><li>* Can-annular type</li><li>* Annular type</li><li>* Reverse flow type</li></ul>	
09	Maintenance of Power Plant and Systems		Explain about Gas Turbine assembly <ul style="list-style-type: none"><li>* Turbine Disc</li><li>* Types of blades</li><li>* Methods of blade attachments</li><li>* Nozzle guide vanes</li></ul>	
10	Maintenance of Power Plant and Systems		Construction and functions of variable area propelling nozzle <ul style="list-style-type: none"><li>* Flaps</li><li>* Flapping with rollers</li><li>* Operation at various Power rating</li></ul>	
11	Maintenance of Power Plant and Systems		Explain the purpose, construction and operation of thrust reverser. <ul style="list-style-type: none"><li>* Purpose</li><li>* Types</li><li>* Construction</li><li>* Operations</li></ul>	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
12	Maintenance of Power Plant and Systems		<p>Explain the types of propellers and the force acting on propeller during operation.</p> <ul style="list-style-type: none"><li>* Fixed pitch</li><li>* Variable pitch</li><li>* Single/double acting</li><li>* Feathering type</li><li>* Reverse pitch type</li></ul>	
13	Maintenance of Power Plant and Systems		<p>Explain the construction and function of constant speed unit (CSU)</p> <ul style="list-style-type: none"><li>* Construction</li><li>* On speed condition</li><li>* Under speed condition</li><li>* Over speed condition</li></ul>	
14	Maintenance of Power Plant and Systems		<p>Explain the differences between CSU and power control unit (PCU)</p> <ul style="list-style-type: none"><li>* Auto feathering</li><li>* Pitch stops</li><li>* Pitch lock mechanism</li></ul>	
15	Maintenance of Power Plant and Systems		<p>Explain the construction and function of reverse pitch propellers</p> <ul style="list-style-type: none"><li>* Construction</li><li>* Time pitch stops</li><li>* Negative fine pitch</li><li>* Advantages</li></ul>	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Avionics-II	Vickey Singh (422)	<p>ECAM</p> <ul style="list-style-type: none"><li>* Introduction</li><li>* Components of ECAM</li><li>* Display units (Functioning)<ul style="list-style-type: none"><li>- LH Displays unit</li><li>- RH Displays unit</li></ul></li></ul> <p>LV power supply HV power supply Digital Line receivers Analog Line Recivers Video Monitor Deflection Crd Convergeuge Cards.</p> <ul style="list-style-type: none"><li>* Symbol generator and Computer<ul style="list-style-type: none"><li>- Input/output processor</li><li>- Main processor</li><li>- Main RAM</li><li>- Main PROM</li><li>- Displays Controller</li><li>- Displays Sequencer</li><li>- Stroke Generator</li><li>- Raster Generator</li><li>- Displays</li></ul></li><li>* ECAM Control Panel</li><li>* Warning light display unit</li><li>* Aural warning unit</li><li>* Display Models<ul style="list-style-type: none"><li>- Flight phase related mode</li><li>- Advisory mode</li><li>- Failure mode</li><li>- Manual mode</li></ul></li></ul>	7/5/16

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
02	Avionics-II	Jaspreet Singh (1924)	<p>Electronic attitude director indicated (Electronic flight instrument system)</p> <ul style="list-style-type: none"><li>* Introduction of IEFIS and flight direction system interfacing with other systems ( IRS ,TMC, FCC, VOR, DME, ILS, FMCS, Weather Radar ,Radio altimeter)</li><li>* Operation of display unit<ul style="list-style-type: none"><li>- Low power supply unit</li><li>- High power supply unit</li><li>- Digital line receiver</li><li>- Analog line receiver</li><li>- Video monitor card</li><li>- Deflection card</li><li>- Convergence card</li></ul></li><li>* Color generated and its function<ul style="list-style-type: none"><li>- White</li><li>- Green</li><li>- Margeta</li><li>- Cyan</li><li>- yellow</li><li>- Red</li></ul></li><li>* Display representation</li><li>* Control panel</li><li>* Remote light sensor</li></ul>	7/5/16



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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
03	Avionics-II	Mansoor Singh (425)	<p>Electronic Horizontal Situation Indicator ( EHSI)</p> <ul style="list-style-type: none"><li>* Introduction of EFIS and flight director system interfacing with other systems e.g. IRS, TMC, FCC, VOR, DME, ILS, FMCS, Weather radar, Radio altimeter</li><li>* Operation of display unit<ul style="list-style-type: none"><li>- Operation of symbol generator</li><li>- Operation of control panel</li><li>- uses of various colors</li><li>- Operation of remote light sensor</li></ul></li><li>* Mode of operation<ul style="list-style-type: none"><li>- Map mode</li><li>- Plan mode</li><li>- VOR mode</li><li>- ILS mode</li></ul></li><li>* Failure indication</li></ul>	7/5/16
04	Avionics-II	Raghuvendra (426)	<p>Engine indicating and crew alerting system (EICAS)</p> <ul style="list-style-type: none"><li>* Introduction of EICAS</li><li>* Components computer left -right center<ul style="list-style-type: none"><li>- Display unit</li><li>- Upper display unit</li><li>- Lower display unit</li></ul></li></ul>	7/5/16

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
05	Avionics-II	Chaukaya Mishra (430)	<ul style="list-style-type: none"><li>* Colors generated and its display function</li><li>* White</li><li>* Red</li><li>* Green</li><li>* Blue</li><li>* Yellow</li><li>* Margeta</li><li>* Cyan</li><li>* Display mode<ul style="list-style-type: none"><li>- Operation mode</li><li>- Status mode</li><li>- Maintenance mode ( maintenance control panel)</li></ul></li><li>* Alert message<ul style="list-style-type: none"><li>- Level A</li><li>- Level B</li><li>- level C</li></ul></li><li>* Failure display<ul style="list-style-type: none"><li>- Display select panel failure</li><li>- Stand by engine indicator</li></ul></li></ul> <p>Flight management system</p> <ul style="list-style-type: none"><li>* Introduction of FMS</li><li>* Components of FMS<ul style="list-style-type: none"><li>- Flight management computer control and display unit</li></ul></li></ul>	7/5/16

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
06	Avionics-II	Shybhaskis Mondal (434)	<ul style="list-style-type: none"><li>- Bubble memory mos RAM UV-PROM data loader</li><li>- EPR indicator much airspeed indicator mode anuciator</li><li>Interfacing indicator</li> <li>* Mode of operation<ul style="list-style-type: none"><li>- Take off mode</li><li>- Climb mode</li><li>- Craze mode</li><li>- Descend mode</li><li>- Hold mode</li><li>- Go around mode</li><li>- Turbulence mode</li></ul></li> <li>Automatic flight control system<ul style="list-style-type: none"><li>* Introduction</li><li>* Role of AFCS</li><li>* Definition and principle of operation</li><li>* Components of AFCS</li><li>* Sensor</li><li>* Computer</li><li>* Output device</li><li>* Types of auto pilot</li><li>* Single Axis (Roll stabilizer)</li><li>* Dual axis</li><li>* Three axis</li><li>* Types of operational AFCS</li><li>* Single channel operation</li></ul></li></ul>	7/5/16

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
07	Avionics-II	Shivam Verma (441)	<ul style="list-style-type: none"><li>* Dual channel operation</li><li>* Three channel operation</li></ul> Sensors of AFCS <ul style="list-style-type: none"><li>* Principle of operation of AFCS</li></ul> Types sensor used <ul style="list-style-type: none"><li>* Main sensor<ul style="list-style-type: none"><li>- Alternative sensor</li></ul></li><li>* Displacement gyroscope :<ul style="list-style-type: none"><li>- Rate gyroscope</li></ul></li><li>* (Roll, pitch and yaw ):<ul style="list-style-type: none"><li>- INS/IRS -YAW</li></ul></li><li>* Air data computer IAS<ul style="list-style-type: none"><li>- Air data transducer</li></ul></li><li>* Altitude :<ul style="list-style-type: none"><li>- INS</li></ul></li><li>* Vertical speed</li><li>* Mach number</li><li>* Radio altimeter</li><li>* Doppler</li><li>* AOA vane</li><li>* VOR system</li><li>* ILS system</li></ul>	7/5/16
08	Avionics-II	Sophia Sharma (444)	Command signal processing <ul style="list-style-type: none"><li>* Function of computer INAFCS<ul style="list-style-type: none"><li>- Amplification</li><li>- Limiting</li></ul></li></ul>	7/5/16

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09	Avionics-II	Narjot Singh (449)	<ul style="list-style-type: none"><li>- Synchronizing</li><li>- Gain Adjustment</li><li>- Modulating /delimiting</li><li>- Differentiating</li><li>- Integrating</li><li>- programming</li><li>- Feed back</li><li>- Interfacing with other system</li></ul> Roll channel operation of AFCS <ul style="list-style-type: none"><li>* Heading select and hold mode</li><li>* Bank hold</li><li>* Radio navigation -VOR mode</li><li>* ILS mode</li><li>* AUTO land -Runway alignments</li><li>* Control wheel steering</li><li>* Touch control steering</li></ul>	7/5/16
10	Avionics-II	Sahil dhiman (451)	Pitch channel operation of AFCS <ul style="list-style-type: none"><li>* Altitude select and hold mode</li><li>* Vertical speed select and hold mode</li><li>* Air speed select and hold mode</li><li>* Mach hold mode</li><li>* Pitch altitude hold mode</li><li>* Pitch trim</li><li>* Turbulence penetration mode</li><li>* Glide stop operation in ILS mode</li></ul>	7/5/16

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11	Avionics-II	Vibha (456)	<ul style="list-style-type: none"><li>* Approach</li><li>* Flare</li></ul> Stability augmentation system in Helicopter <ul style="list-style-type: none"><li>* Automatic control of Helicopter</li><li>* Components of SAS<ul style="list-style-type: none"><li>- Rate sensor</li><li>- Leak integrator</li><li>- computer</li><li>- Actuator :<ul style="list-style-type: none"><li>- Series actuator</li><li>- Parallel actuator</li><li>- Combined actuator</li></ul></li></ul></li><li>* Pilot command input</li><li>* Helicopter trim system</li><li>* Retraining</li><li>* Modes of operation<ul style="list-style-type: none"><li>- Heading hold</li><li>- Baro altitude hold/ Radio altitude hold</li><li>- Airspeed hold/ ground speed hold</li><li>- Hover</li><li>- Coordinated turn</li></ul></li></ul>	7/5/16
12	Avionics-II	Abhishek Rai (459)	Auto pilot navigation aids interface <ul style="list-style-type: none"><li>* INS/IRS and MHRS</li><li>* VOR system</li><li>* ADF system</li><li>* ILS system</li></ul>	7/5/16

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13	Avionics-II	Farooq Bhatt (464)	<ul style="list-style-type: none"><li>* FMC system</li><li>* Flight director system</li><li>* Radio altimeter</li><li>* ADC</li></ul> <p>Auto throttle system (TMC)</p> <ul style="list-style-type: none"><li>* Introduction</li><li>* Components</li><li>* Auto throttle computer</li><li>* AT servo actuator</li></ul> <ul style="list-style-type: none"><li>* Interfacing with other system<ul style="list-style-type: none"><li>- Flight management computer</li><li>- Flight control computer</li><li>- ADC</li><li>- Radio Altimeter</li></ul></li></ul> <ul style="list-style-type: none"><li>* Inputs taken from<ul style="list-style-type: none"><li>- AOA censer</li><li>- Flap</li><li>- Position transmitter</li><li>- Tache meter</li><li>- AFCS mode control panel</li></ul></li></ul> <ul style="list-style-type: none"><li>* Mode of operation<ul style="list-style-type: none"><li>- Take off mode</li><li>- Speed hold mode</li><li>- go around mode</li></ul></li></ul>	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
14	Avionics-II	Pranav Kamble (467)	Automatic landing system * Introduction * Principle * Categories * System reliability * Aid soft * Aid operational * Simplex * Multiplex * System failure monitoring * Automatic landing sequence * Approach * Land * Go around	7/5/16
15	Avionics-II	Vinay Kumar (468)	Fundamental of system layout * Suitable location * Proper visibility * Correct angle of observation * Grouping of instruments * Types of display * Qualitative of display * Qualitative of display * Director display * Colored display	7/5/16



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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Theory of Plate and Shell	Safwanul Haque (S37)	Classical plate and theory <ul style="list-style-type: none"><li>* Definition of plate</li><li>* Assumptions</li><li>* Kirchoff theory salient points</li><li>* Force equilibrium</li><li>* Differential mechanism</li></ul>	10/5/16
02	Theory of Plate and Shell	Rajendra dhakal (S40)	Review on thick and thin plates <ul style="list-style-type: none"><li>* Theory of thick plates</li><li>* Salient points and assumption</li><li>* Boundary conditions</li><li>* Different equation</li></ul>	10/5/16
03	Theory of Plate and Shell	Sayran Saini (S41)	Axi-symmetric loading in plates <ul style="list-style-type: none"><li>* Meaning axi- symmetric loading</li><li>* Causes of axi-symmetric loading</li><li>* Effect of axi-symmetric loading</li><li>* Advantages</li></ul>	10/5/16
04	Theory of Plate and Shell	Sayran Suman (S42)	Simply supported rectangular plates <ul style="list-style-type: none"><li>* Definition</li><li>* Naiver method</li><li>* Boundary conditions</li><li>* Lateral pressure on rectangular plates</li><li>* Governing equations</li></ul>	11/5/16

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05	Theory of Plate and Shell	Ananta K. Bhoi (549)	Eigne value analysis * Stability in plates * Advantages and disadvantages of Eigne value analysis * Causes of vibration in plates * Methods of vibration analysis	11/5/16
06	Theory of Plate and Shell	Dinkar Kumar (550)	Approximate methods for analysis of plate * Rayleigh- Ritz method * General Procedure * Main steps involved in this method * Examples and advantages	11/5/16
07	Theory of Plate and Shell	Sunny Bhagel (553)	Concept of shells * Basic concept of shell * Circular cylinder shell * Bending theories * Membrane theory	11/5/16
08	Theory of Plate and Shell	Rahul Poddar (643)	Finite difference method of shells * Definition * Galerkin method * Salient features of Galerkin method * Advantages over other methods	11/5/16
09	Theory of Plate and Shell	B.S. Jami (663)	Free and force vibration in shells * Reasons of vibration in shells * Amplitude of vibration in shell * Condition of damping in shells * Eccentric loading conditions	11/5/16

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10	Theory of Plate and Shell	S. ganes h (696)	Thick Plate Theory * Reissner Mindline Theory * Limitation of Kirchhoff Theory * Governing Equations * Boundary Conditions	11/5/16
11	Theory of Plate and Shell	Rajan kumar (458)	Symmetrical bending of circular plates * Differential equation for symmetrical bending of laterally loaded circular plates * Uniformly loaded circular plates * Circular plate concentrically loaded * Circular plate loaded at the centre	12/8/16
12	Theory of Plate and Shell	Sadab ahmad (490)	Small deflections of laterally loaded plates * Plates on elastic foundation * Bending symmetrical with respect to a centre * Rectangular and continuous plates on elastic foundation * Plates carrying rows of equidistant columns * Bending of plates resting on a semi- infinite elastic solid	12/8/16
13	Theory of Plate and Shell	Krishan kumar (480)	Plates on elastic foundation * Bending symmetrical with respect to a centre * Rectangular and continuous plates on elastic foundation * Plates carrying rows of equidistant columns * Bending of plates resting on a semi- infinite elastic solid	12/5/16

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14	Theory of Plate and Shell	Kaishan Kant (489)	General theory of cylindrical shells * A circular cylindrical shell loaded symmetrically * Symmetrical deformation of circular cylindrical shells * Pressure vessels * Cylindrical tanks with uniform wall thickness	12/5/16
15	Theory of Plate and Shell	Rameshwar Gupja (499)	Plates of various shapes * Equation of bending of plates in polar coordinates * Circular plates under a linearly varying * Circular plates under a cocentrated load * Circular plates of non uniform thickness coordinates	12/5/16

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01	CAD	Surya Prasad (S01)	Design and manufacturing using CAD/CAM * Product development * Systematic approach to tolerances * Manufacturing cost * Global optimization technique * Material handling * Advantages and disadvantages	9/5/16
02	CAD	Abhilasha Aravathi (S02)	Advance trends in CAD/CAM * CAD/CAM software * NC/CNC machine tools * Interfaced with digital technologies * Material handling * CAD/CAM	9/5/16
03	CAD	Hitesh Fak (S04)	Various application of CAD/CAM * Drafting and annotation * Simulation and analysis * Automobile industry * Aeronautics and aviation * Ergonomics	9/5/16
04	CAD	Kamal Tomar (S06)	CAD/CAM market trends * Aerospace * Automation * Construction * Architecture and engineering * Research * Electrical and electronics	9/5/16

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05	CAD	Divya Chauhan (507)	Auto CAD MEP ( Mechanical, Electrical & plumbing) <ul style="list-style-type: none"><li>* MEP design and drawing tools</li><li>* Creation and coordination</li><li>* Commercial facilities</li><li>* Life style and luxury</li><li>* Human comfort</li></ul>	9/5/16
06	CAD	Deepak Yadav (509)	Solid modeling <ul style="list-style-type: none"><li>* Solid representation</li><li>* Boundary representation</li><li>* Constructive solid geometry</li><li>* CAD database structure</li></ul>	10/5/16
07	CAD	Umang Tyagi (513)	Surface modeling <ul style="list-style-type: none"><li>* Mathematical representation</li><li>* Surface models</li><li>* Surface entities and representation</li><li>* Parametric representation of surfaces</li><li>* NURBS</li></ul>	10/5/16
08	CAD	Ravishrisha Vardhan (518)	Advance modeling concepts <ul style="list-style-type: none"><li>* Feature based modeling</li><li>* Assembly modeling</li><li>* Parametric and variation modeling</li><li>* Tolerance modeling</li><li>* Analysis and synthesis</li></ul>	10/5/16

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09	CAD	Jeetendra Singh (S21)	Parametric representation of analytical curves * Line * Circle * Ellipse * Parabola * Hyperbola	10/5/16
10	CAD	Neelish Ghoshal (S27)	Parametric representation of synthetic curve * Buzzer curve * B-Spline curve * Hermit cubic curve * rational curves	10/5/16
11	CAD	Chandan Kumar (S28)	Transformations of geometric models * Translation * Scaling * Reflection * Rotation	10/5/16
12	CAD	T. Hariharan (S29)	Projection of geometric models * Orthographic geometric * Perspective projection	10/5/16
13	CAD	Lincy S. murali (S30)	CAD/CAM Data exchange * Data exchange format * Product data based format * ISO standards * IGES * PDES	10/5/16

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
14	CAD	Gokind Rai Singh (532)	Geometric property formulation * Curve length * Cross-sectional area * Surface area * Volume	10/5/16
15	CAD	Digpreya (533)	Mass property formulation * Mass * Centroid * Moment of inertia * Property mapping	10/5/16



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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Refrigeration and cryogenics	Tray P (534)	History of refrigeration * Early requirement of cooling * Traditional methods of refrigeration and air conditioning	10/5/16
02	Refrigeration and cryogenics	Dikshant Jain (538)	Why the vapor compression cycle * Theoretical refrigeration cycle i.e. carnot cycle * Improvements of carnot cycle * Air as a refrigerant * Advantage of vapor compression refrigeration	10/5/16
03	Refrigeration and cryogenics	Abhishek Kumar (555)	Cryogenics * History and application * Meaning * Current application	10/5/16
04	Refrigeration and cryogenics	Ajay Kamteke (557)	Storage and handling of cryogens * Need for special methods of storage and handling * Various methods * Advantage and disadvantage of various methods.	11/5/16
05	Refrigeration and cryogenics	Shubham Jain (436)	Cryogenic refrigeration system * How cryogenic refrigeration system work * What are the various cryogenic refrigeration systems	12/5/16
06	Refrigeration and cryogenics	Vikas Ronger (469)	Materials of construction for cryogenic use. * Properties of such materials * Example of such material * Pros and cons of certain such materials in cryogenic construction application	12/5/16

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
07	Refrigeration and cryogenics	Ashish Gupta (472)	Properties and selection of pure and mixed refrigerants	12/5/16
08	Refrigeration and cryogenics	Gurmitan Singh (476)	Multistage vapor compression and expansion * Complete descriptions and aspects * Intercooling and expansion process * Various types of such arrangements.	12/5/16
09	Refrigeration and cryogenics	Rajat Arora (477)	Cascade system in vapor compression * Meaning * Requirement * Description and examples, applications	12/5/16
10	Refrigeration and cryogenics	Sonu Jaiswal (500)	Thermo electric refrigeration * Meaning * Requirement * Description and examples, application	12/5/16
11	Refrigeration and cryogenics	Kapil Gupta (570)	Vortex tube refrigeration * Meaning * Requirement * Description and example, applications	12/5/16
12	Refrigeration and cryogenics	Pranav Patel (574)	Air cycle refrigeration	12/5/16

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
13	Refrigeration and cryogenics	Sujeet Biswas (526)	Analysis of vapor absorption cycle * Analysis	12/5/16
14	Refrigeration and cryogenics	Rupesh Kumar (670)	Aqua ammonia and Li-Br water cycle * Analysis	12/5/16

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Avionics-II (Aircraft Electrical System)	Raushan Kumar (472)	AC Power Generation <ul style="list-style-type: none"> <li>* Principle, alternators, principle of Aircraft alternators, Alternators system for light Aircraft</li> <li>* D.C Generator</li> <li>* Elimination of DC ripple</li> <li>* Residual Magnetism</li> <li>* Characteristiics of DC generator</li> <li>* Armature ckt and armature reaction</li> </ul>	9/5/16
02	Avionics-II (Aircraft Electrical System)	Pankaj bishnoi (474)	Power distribution <ul style="list-style-type: none"> <li>* General requirements</li> <li>* Need for protective devices</li> <li>* Electrical load &amp; Intermittent loads.</li> <li>* Electrical load analysis</li> <li>* A simple electrical system</li> </ul> Main power distribution system <ul style="list-style-type: none"> <li>* Single Engine Aircraft</li> <li>* Twin-Engine Aircraft</li> </ul> Power distribution in composite aircraft Large aircraft electrical system <ul style="list-style-type: none"> <li>* Split bus system with both generators operating</li> <li>* Parallel electrical system (Four generator parallel system)</li> <li>* Split parallel system</li> </ul> DC Electrical system <ul style="list-style-type: none"> <li>* Power distribution hierarchy</li> </ul> Control of power distribution system (BPCU), current transformer (BTB), (CTAs), (BITE), (NBPT)	9/5/16

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
03	Avionics-II (Aircraft Electrical System)	Manu Raj (475)	<p>Transformer &amp; Rectifiers</p> <ul style="list-style-type: none"> <li>* Their principle</li> <li>* Construction of volt transformer</li> <li>* Circuit connection (parallel and series at output)</li> <li>* Current transformer (circuit diagram)</li> <li>* Auto transformer</li> <li>* Transformer efficiency and rating.</li> </ul> <p>Rectifier basic principle</p> <ul style="list-style-type: none"> <li>* Single phase half wave, full wave rectifier</li> <li>* Three phase half wave with (three diodes) rectifier</li> <li>* Three phase full wave with (six diodes)</li> <li>* Silenium recitifier</li> <li>* Silecon rectifier</li> <li>* Operating limitation, S.C.R (wave form volt vs current) and thier connection</li> </ul>	9/5/16
04	Avionics-II (Aircraft Electrical System)	Mayank Mishra (483)	<p>Inverters</p> <ul style="list-style-type: none"> <li>* Rotary converting equipment</li> <li>* Static inverters</li> </ul> <p>Circuit protection</p> <ul style="list-style-type: none"> <li>* Fuses (their materials)</li> <li>* Current limites</li> <li>* Circuit breakers</li> <li>* Over voltage protection</li> <li>* Under voltage protection</li> <li>* Over excited &amp; under excited protection</li> <li>* Differential current protection</li> <li>* Merz price protection system</li> </ul>	9/5/16

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
05	Avionics-II (Aircraft Electrical System)	Arush Chongia (485)	Auxiliary power unit * Ground power unit * Thier operation and limitation * Application	9/10/16
06	Avionics-II (Aircraft Electrical System)	Ashish Verma (487)	Battery installation * Battery compartment * Battery installation * Ventating system * Operation of batteries	9/10/16
07	Avionics-II (Aircraft Electrical System)	Rahul Agarwal (490)	Electronic emergency equipment requirement * ELT * Flight recorder * Voice recoder * Smoke detector	9/10/16
08	Avionics-II (Aircraft Electrical System)	Bipin Kumar Yadav (492)	Cabin entertainment * Flight display system * Passanger moving maps * WIFI LED monitors * Ipod docking station * DVD players * Inflight games	9/10/16

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
09	Avionics-II (Aircraft Electrical System)	Abhishek Gidhota (497)	Internal and external lighting * Cockpit lighting * Integral light * Pillar and bridge * Flood lighting * Electro luminescent	9/5/16
10	Avionics-II (Aircraft Electrical System)	Abhinav Mahur (498)	External lighting * Navigation light * Anticollision light * Landing light taxi light * Ice inspection lights	9/5/16

