

# School of Aeronautics (Neemrana)

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

Mr. Vishnu Sarawat (Heat transfer)

B.Tech. Semester -5

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Heat and Mass transfer	Amandeep (708) Amit Choudhary (767)	Modes of Heat Transfer * Definitions * Conduction * Convection * Radiation * Thermal diffusivity	13-8-2016 22-10-2016
02	Heat and Mass transfer	HaVeem Kumar Gharabadi (709) Naman Gupta (771)	Conduction-Steady state one dimension * General heat conduction equation in Cartesian coordinates * General heat conduction equation in Cylindrical coordinates * General heat conduction equation in Spherical coordinates * Heat conduction through plane and composite walls	13-8-2016 22-10-2016
03	Heat and Mass transfer	Hardeep (718) Manish Singh (794)	Conduction steady state two dimension and three dimension * Two dimensional steady state conduction * Analytical method * Graphical method * Numerical method	13-8-2018 22-10-2016

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
04	Heat and Mass transfer	Ankur Vats (724) Saurav Kumar (796)	Conduction unsteady state (Transient) * Introduction * Heat conduction in solids having infinite thermal conductivity * Time constant * Transient heat conduction	13/8/2016 22-10-2016
05	Heat and Mass transfer	Muhsin Mukhtar (728) Harsh Anand (804)	Mass transfer * Modes of mass transfer * Ficks law * General mass diffusion equation * Steady state diffusion in liquids * Convective mass transfer	13/8/2016 22-10-2016
06	Heat and Mass transfer	Raghav Vashisht (735)	Forced convection in systems * Laminar flow over a plate * Momentum equation for hydrodynamic boundary layer * Balsa equation * Van-Karman integral momentum equation * Thermal boundary layer	6/8/2016
07	Heat and Mass transfer	Piyush Sharma (737)	Free convection in system * Characteristic parameters in free convection * Momentum and energy equation for laminar	6/8/2016

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
08	Heat and Mass transfer	Badr Vishal Pandey (938)	<ul style="list-style-type: none"> <li>* free convection heat transfer</li> <li>* Transition and turbulence in free convection</li> </ul> <p>Boiling and condensation</p> <ul style="list-style-type: none"> <li>* Boiling heat transfer</li> <li>* Boiling regimes</li> <li>* Bubble shape and size consideration</li> <li>* Critical diameter of bubble</li> <li>* Film pool boiling</li> </ul>	6/8/2016
09	Heat and Mass transfer	Vivak Singh Tomwar (743)	<p>Heat exchangers</p> <ul style="list-style-type: none"> <li>* Introduction</li> <li>* Types of heat exchangers</li> <li>* Heat exchanger analysis</li> <li>* LMTD and NTU concept</li> <li>* Evaporators</li> </ul>	6/8/2016
10	Heat and Mass transfer	Deepak Sawin (746)	<p>Thermal radiation-Basic relation</p> <ul style="list-style-type: none"> <li>* Introduction</li> <li>* Surface emission properties</li> <li>* Concept of black body</li> <li>* Kirchoff law</li> <li>* Plank law</li> </ul>	6/8/2016

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B.Tech. Semester -5

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
11	Heat and Mass transfer	Srujan Shubham (751)	<p>Radiation heat exchange between surfaces</p> <ul style="list-style-type: none"> <li>* Radiation heat exchange between black bodies</li> <li>* Shape factor algebra</li> <li>* Heat exchange between non black bodies</li> <li>* Radiation shields</li> </ul> <p>Dimensional Analysis</p> <ul style="list-style-type: none"> <li>* Dimensions</li> <li>* Dimensional homogeneity</li> <li>* Raleigh method</li> <li>* Buckingham theorem</li> <li>* Characteristic length</li> </ul> <p>Turbulent Flow</p> <ul style="list-style-type: none"> <li>* Turbulent boundary layer</li> <li>* Empirical correlations</li> <li>* Laminar flow over flat plates</li> <li>* Laminar flow inside tubes</li> </ul> <p>Introduction to hydrodynamics</p> <ul style="list-style-type: none"> <li>* Ideal and real fluids</li> <li>* Viscosity</li> <li>* Velocity and stream functions</li> <li>* Laminar and turbulent flows</li> </ul>	20/8/2016
12	Heat and Mass transfer	Mamya Gupta (757)		20/8/2016
13	Heat and Mass transfer	Gajendra Jat (763)		20/8/2016
14	Heat and Mass transfer	Rahul Soni (765)		20/8/2016

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B.Tech. Semester -5

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
15	Heat and Mass transfer	Himanshu Singh (766)	Empirical correlations for free convection  * Vertical plates and cylinders * Horizontal plates * Horizontal cylinders * Inclined plates * Enclosed spaces	20/8/2016

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

B.Tech. Semester -5

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Aircraft System	Mayal Mehul Joshi (707) Amandeep (700)	Explain the Push Pull Rod System <ul style="list-style-type: none"> <li>* Explain this system in detail</li> <li>* Figures/block diagram</li> <li>* Advantage/Disadvantage</li> <li>* Examples</li> </ul>	6-8-2016 17-9-2016
02	Aircraft System	Rahul Ray Vardhan (710) Navneet Kumar Gopalani (709)	Flexible Push Pull Rod System <ul style="list-style-type: none"> <li>* Explain in detail</li> <li>* Figures/ Block Diagrams</li> <li>* Advantage/Disadvantages</li> <li>* Example</li> </ul>	6-8-2016 17-9-2016
03	Aircraft System	Feroz Khan (711) Hardeep (718)	Fly by wire system <ul style="list-style-type: none"> <li>* Explain</li> <li>* Various component/parts/equipment required</li> <li>* Advantage /Disadvantages</li> <li>* Future scope</li> </ul>	6-8-2016 17-9-2016
04	Aircraft System	Rajat Pandey (712) Ankur Vats (724)	Instrument landing system <ul style="list-style-type: none"> <li>* Explanation</li> <li>* Frequencies used (Marker Beacon etc)</li> <li>* Applications</li> <li>* Need to use it</li> <li>* Advantages over normal landing</li> </ul>	6-8-2016 17-9-2016

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Dr. Jaskaran Deep

B.Tech. Semester -5

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
05	Aircraft System	Naqvi Saiyadashan Nisar Hussien (715)	<ul style="list-style-type: none"> <li>* Meaning VOR</li> <li>* Applications</li> <li>* Types of VOR</li> <li>* Difference b/w VOR &amp; Previous frequencies being used</li> </ul>	6-8-16
06	Aircraft System	Mushsin Mukhtar Sahil Sangwan (717)	<ul style="list-style-type: none"> <li>* Hydraulic systems</li> <li>* What is Hydraulic system</li> <li>* Different types of Hydraulic system</li> <li>* Hydraulic Fluids</li> <li>* Uses</li> <li>* Precaution &amp; Maintenance</li> <li>* Working Principle</li> </ul>	17-9-2016 13-8-16
07	Aircraft System	Navjot Sharma (719)	<ul style="list-style-type: none"> <li>* Landing Gear</li> <li>* Working principle</li> <li>* Different types of landing gear</li> <li>* Problem faced</li> <li>* Different mechanism</li> </ul>	24-9-2016 13-8-16
08	Aircraft System	Piyush Sharma (737) Taqi Haider 720 Budni Vishal Purohit (738)	<ul style="list-style-type: none"> <li>* Retroactive landing gear</li> <li>* Working principle</li> <li>* Different between other types'</li> <li>* Advantages/Disadvantages</li> <li>* Figure/ Diagram</li> </ul>	24-9-2016 13-8-16

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B.Tech. Semester -5

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
09	Aircraft System	Vivek Gichlout (721) Vivek Singh Tanwar (743) Vaishali Tiwary (722)	Fuel pumps * Explain different type of fuel pumps (with figure) * Advantages * Need of these pumps  Fuel Tank * Dimensions of a fuel tank (shape & size) * Fuel Inertion * Precautions * Various locations of fuel tanks along with their advantages	13-8-16 24-9-2016 13-8-16
11	Aircraft System	Deepak Sain (746) Himalay Rasik Desai (723) Sejan Shubham (751)	Fuel system * Explain the different components of a fuel system * Pumps, piping * Working principle of a fuel pump * Various problems Encountered by a fuel pump	24-9-2016 20-8-16 15/10/16
12	Aircraft System	Dabhi Nilesh Dayaram Bhai (724) Merryu Gupta (757)	Deicing and Anti Icing system * What do you mean by Anti icing system * Why do we need such a system	20-8-16 15/10/2016

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JasKaran Deep Singh

B.Tech. Semester -5

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
13	Aircraft System	Palki (725) Gaganand Jati (763)	<ul style="list-style-type: none"> <li>* Different types of system (with Figure)</li> <li>* Brief Explanation</li> </ul> <p>Oxygen &amp; Pressurization system</p> <ul style="list-style-type: none"> <li>* What do you mean by Hypoxia</li> <li>* Various methods to maintain the oxygen level</li> <li>* What is the need to maintain cabin pressure</li> <li>* Various method for cabin pressurization (Explain)</li> </ul>	<del>20-8-16</del> 20-8-16  15/10/2016
14	Aircraft System	Jay Poo Kash Paswan (729) Rahul Soni (765)	<p>Refuelling and defuelling</p> <ul style="list-style-type: none"> <li>* What are various modes of refueling</li> <li>* What do you mean by defuelling</li> <li>* Explain the standard procedure of ground refuelling</li> <li>* Precautions while refuelling/defuelling.</li> </ul>	20-8-16  15-10-2016
15	Aircraft System	Rohit Kumar (730) Himanshu Singh (766)	<p>Color coding of fuel &amp; fuel piping &amp; valves</p> <ul style="list-style-type: none"> <li>* Various types of piping</li> <li>* Types of valve used in fuel system</li> <li>* NRV</li> <li>* Explain the color coding &amp; grading of a fuel.</li> </ul>	20-8-2016  15-10-2016

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MR. VIVEK MAINALI

B.Tech. Semester -5

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Vibration Engineering	Joel Pereira (731)	<p>Simple Harmonic Motion</p> <ul style="list-style-type: none"> <li>* Introduction</li> <li>* Basic Definition</li> <li>* Vector method of representing harmonic motions</li> <li>* Addition of two simple harmonic motions of the same frequency</li> <li>* Phenomenon of beats</li> <li>* Complex method of representing harmonic motion</li> </ul>	27-8-2016
02	Vibration Engineering	Jennifer Gautham (732)	<p>Undamped Free Vibrations of Single Degree of Freedom System</p> <ul style="list-style-type: none"> <li>* Introduction</li> <li>* Derivations of differential equations</li> <li>* Solution of differential equation</li> <li>* Torsional Vibrations</li> <li>* Equivalent stiffness of spring combinations</li> <li>* Spring in Series</li> <li>* Spring in Parallel</li> <li>* Inclined Springs</li> </ul>	27-8-2016

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B.Tech. Semester -5

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
03	Vibration Engineering	Prashant Gupta (733)	<p>Damped Free Vibrations of Single Degree of Freedom System</p> <ul style="list-style-type: none"> <li>* Introduction</li> <li>* Different types of Damping</li> <li>* Free vibrations with viscous damping</li> <li>* Over Damped System</li> <li>* Critically Damped System</li> <li>* Under Damped System</li> </ul>	27-8-2016
04	Vibration Engineering	Saleem Muhammad (734)	<p>Viscous Dampers</p> <ul style="list-style-type: none"> <li>* Introduction</li> <li>* Fluid dashpot</li> <li>* Eddy current damping</li> <li>* Dry friction or coulomb Damping</li> <li>* Frequency of Damped Oscillations</li> <li>* Rate of Decay of Oscillations</li> <li>* Solid or structural damping</li> <li>* Slip or Interfacial Damping</li> </ul>	27-8-2016

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B.Tech. Semester -5

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
05	Vibration Engineering	Ali Razaarib Hussain Lakhani (739)	<p>Forced Vibrations of Single Degree of Freedom Systems</p> <ul style="list-style-type: none"> <li>* Introduction</li> <li>* Forced vibrations with constant harmonic excitation</li> <li>* Steady Vibrations</li> <li>* Forced Vibration with rotating and reciprocating unbalance</li> <li>* Forced vibration due to excitation of the support</li> <li>* Absolute Amplitude</li> <li>* Relative Amplitude</li> <li>* Energy dissipated by Damping</li> <li>* Forced vibrations with Coulomb damping</li> </ul>	27-8-2016
06	Vibration Engineering	Radhika Patel (741)	<p>Vibration Isolation and transmissibility</p> <ul style="list-style-type: none"> <li>* Introduction</li> <li>* Forced transmissibility</li> <li>* Motion transmissibility</li> <li>* Typical Isolators &amp; mount types</li> </ul>	10-9-2016

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
07	Vibration Engineering	Sunil Kumar Femin (742)	<p>Vibration Measuring Instruments</p> <ul style="list-style-type: none"> <li>* Introduction</li> <li>* Displacement measuring instruments or vibro meters</li> <li>* Velocity measuring instruments or velocity pickups</li> <li>* Acceleration measuring instruments or accelerometers</li> <li>* Frequency measuring Instruments</li> </ul>	10-9-2016
08	Vibration Engineering	Ajeet Singh (745)	<p>Two Degree of Freedom Systems</p> <ul style="list-style-type: none"> <li>* Introduction</li> <li>* Principle modes of vibrations</li> <li>* Cases of simple two degree of freedom systems</li> <li>* Two masses fixed on a tightly stretched string</li> <li>* Double Pendulum</li> <li>* Torsional System</li> </ul>	10-9-2016
09	Vibration Engineering	Atharv Kunungo (747)	<p>Vibration Absorbers</p> <ul style="list-style-type: none"> <li>* Introduction</li> <li>* Undamped dynamic vibration absorbers</li> <li>* Centrifugal pendulum absorbers</li> <li>* Dry friction damper</li> <li>* Untanned viscous damper</li> </ul>	10-9-2016

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

B.Tech. Semester -5

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
10	Vibration Engineering	Gaurav Singh Negi (749)	Multi-Degree of Freedom Systems- Exact Analysis <ul style="list-style-type: none"> <li>* Introduction</li> <li>* Free vibrations-equation of motion</li> <li>* Influence Coefficients</li> <li>* Flexibility Coefficients &amp; Maxwell's reciprocal theorem</li> <li>* Stiffness Coefficients</li> <li>* Characteristics of various matrices</li> </ul>	10-9-2016
11	Vibration Engineering	Suryaj Raghav (752)	Vibration of Continuous Systems <ul style="list-style-type: none"> <li>* Introduction</li> <li>* Vibration of Strings</li> <li>* Longitudinal vibration of bars</li> <li>* Torsional vibrations of circular shafts</li> <li>* Lateral vibrations of circular shafts</li> </ul>	17-9-2016
12	Vibration Engineering	Rajmi (753)	Multi-Degree of Freedom Systems <ul style="list-style-type: none"> <li>* Introduction</li> <li>* Rayleigh's Method</li> <li>* Dunkerley's Method</li> <li>* Stodola's Method</li> <li>* Rayleigh-Ritz method</li> <li>* Holzer's Method</li> </ul>	17-9-2016

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
13	Vibration Engineering	Gitesh Rao (756)	<p>Transient Vibrations</p> <ul style="list-style-type: none"> <li>* Introduction</li> <li>* Laplace Transformation</li> <li>* Response to an impulsive input</li> <li>* Response to a step input</li> <li>* Response to a pulse input</li> <li>* Rectangular Pulse</li> <li>* Half Sinusoidal Pulse</li> </ul>	17-9-2016
14	Vibration Engineering	Vishal (754)	<p>Non-Linear Vibrations</p> <ul style="list-style-type: none"> <li>* Introduction</li> <li>* Example of Non-Linear Systems</li> <li>* Phase plane</li> <li>* Method of isoclines lines</li> <li>* Undamped free vibration with nonlinear spring forces</li> <li>* Hard Spring</li> <li>* Soft Spring</li> </ul>	17-9-2016

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
15	Vibration Engineering	Gopal Jot (764)	Modal Analysis <ul style="list-style-type: none"><li>* Introduction</li><li>* Undamped Free Vibrations</li><li>* Damped Free Vibrations</li><li>* Forced Vibrations</li></ul>	17-9-2016

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MR. ARJUN SINGH

B.Tech. Semester -5

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Propulsion	Prithvi Kumar (806)	<p>Subsonic Inlet of Gas Turbine engine</p> <ul style="list-style-type: none"> <li>* What is Inlet</li> <li>* Stream patterns for subsonic inlet</li> <li>* Inlet pressure ratio</li> <li>* Inlet sizing</li> <li>* Inlet flow distortion</li> <li>* Inlet drag</li> </ul>	29/10/16
02	Propulsion	Akash Tyagi (807)	<p>Supersonic Inlets</p> <ul style="list-style-type: none"> <li>* Basics of one dimensioned Inlet flow</li> <li>* Condition at throat</li> <li>* Condition at normal shock wave</li> </ul>	29/10/16
03	Propulsion	Rahul Kumar (809)	<p>Exhaust nozzles</p> <ul style="list-style-type: none"> <li>* What is the function of exhaust nozzles</li> <li>* Types of nozzles</li> <li>* Nozzle functions</li> <li>* Thrust functions</li> <li>* Infrared signature</li> <li>* Nozzle coefficient</li> <li>* Nozzle performance</li> </ul>	29/10/16