School of Aeronautics (Neemrana)

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

mr Mohapatra

B.Tech. Semester - 4

S.No	Subject	Name of Student	Seminar Topic		Date of Seminar
01	Introduction to Aeronautics	831 DIWASH K. 833 YASH VERMA 918 Sameer Kumar	Various efforts in pre-weight brother's eve to fly * Ornithopter * Montgolfier hot air balloons * Hydrogen filled balloon by J.A.C Charles. * Sir George cayley's design. * Cayley's model glider. * William samuel hansom's aerial steam carriage * Stringfellow's model * Due temple's airplane * Mozhaiskils aircraft * Octo lilienthal's glider * Pitcher's glider	B-8 B-8 B-9	14-1-2017 14-1-2017 18/3/2017
02	Introduction to Aeronautics	834 MANISH KR. 919 Bodala Vishal	Classification of airplanes by configuration * Position of wings in respect to axis of fuselage * Number of wings * Shape of wings * Position of wings	B-8 B-9	14-1-2017 18/3/2017
03	Introduction to Aeronautics	901 MAYAN R. 902 ANMOL A. 920 P Sri Sanjeev	Classification of airplanes by power plants * Power plant types * Number of engine * Location of engine	B-7 B-7 B-9	21-01-2017 21-01-2017 18/3/2017
04	Introduction to Aeronautics	903 SAGA CH. 905 JAYASHREE 921 Kasi Santosh	Lift argumentation devices * Devices to control camber * Devices to control the flow at leading edge * Devices to control boundary layer * Assisted lift during take off.	B-7 B-7 B-9	21-01-2017 21-01-2017 18/3/2017

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S.No	Subject	Name of Student	Seminar Topic		Date of Seminar
05	Introduction to Aeronautics	948 Ashwin Daberao 867 yogesh Ramesh.	Thrust arguments in engines * Thrust argumentation in piston engine * Thrust argumentation in jet engine	B-9 B-7	28/1/2017 04/3/2017
06	Introduction to Aeronautics	949 Bharterdu 870 Gurkirat Chahal	Various means of producing power in airplane * What is power plant * Classification of power plant - Indirect reaction power plants principles of operations - Direct reaction power plants principle of operations - Pure reaction power plants principle of operations	B-9 B-7	28/1/2017 04/3/2017
07	Introduction to Aeronautics	950 Nardeep singh 918 Sameer Khan	Classification and functioning of direct reaction power plants * Turbo jet * Turbo prop * Turbo fan * Turbo shaft * Ram jet * Pulse jet * Scram jet	B-9 B-9	28/1/2017 18/3/2017
08	Introduction to Aeronautics	953 Adil 919 Bodala Balram	Progress in Airoscope applications * Progress in speed and altitude * Progress in space vetricles * Progress in satellites * Progress in space craft * Space shuttle	B-9 B-9	28/1/2017 18/3/2017

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
09	Introduction to Aeronautics	858 Jorali 831 Diwash Deo	Stability of an Airplane B-8 * What is stability of airplane * Static and dynamic stability B-8 * Dynamic unstability during flight - Spin - Spiral - Phugoid - Dutch roll	18/2/2017 01/4/2017
10	Introduction to Aeronautics	866 Simran 833 yash verma	V-N Diagram of airplane why do we need such diagram? * What is Load factor B-8 * What is V-N diagrams * What is requirements of V-N dlagram B-8	18/2/2017 01/4/2017
11	Introduction to Aeronautics	868 Purva Pandya 834 Manish Rai	VTOL Aircraft * What is VTOL * Configuration/features of such aircraft B-8 * Principle of operation of VTOL aircraft * What is a no tail rotor aircraft? How it function? B-8	18/2/2017 01/4/2017
12	Introduction to Aeronautics	854 Prit Nilkeshbhai	Function of a Turbo for engine? * Schematic diagram B-8 * Identification of components * Principle operation * Thrust calculation	25/2/2017

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
13	Introduction to Aeronautics	856 Shadab Alam 835 Shivam Bajpai	Different types of drag acting on airplane during flight * Drag due to wing B-8 * Drag due to trailing vortices * Drag due to parasite surfaces B-8 * Drag due to iter borence * Drag due to shock wave/ compressibility.	25/2/2017 15/4/2017
14	Introduction to Aeronautics	862 Lovely Sharma 838 Yash Vadaliya	Mechanical properties required by materials to be used in Airplane construction * Hardness B-7 * Elasticity * Ductility B-8 * Malleability * Strength to weight ratio * Conductivity	04/3/2017 15/4/2017
15	Introduction to Aeronautics	864 Akhil Jappu	Advanced composite structure used in modern airplane * Advantage of use B-7 * What is advanced composite structure. * Basic component of an advanced composite structure. - Reintorcing materials Type of reintorcing materials Purpose of wing each type of materials - Matrix materials Type of matrix materials Purpose of using each type of materials - Core materials Type of core materials Purpose of using each type of material	04/3/2017

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B.Tech. Semester - 4

S.No	Subject	Name of Student	Seminar Topic		Date of Seminar
01	Machine design	906 PANKAJ KR 907 RADHEY SHYAM ~~913 Reetesh Sethi~~ 883 Shreyash Mahesh	Factor of safety in machine design * Definition * Selection of factor of safety * Significance of factor of safety * Function of factor of safety * Factor of safety value for different materials	B-9 B-9 ~~B-8~~ B-8	14-1-2017 14-1-2017 ~~28/1/2017~~ 18/3/2017
02	Machine design	908 MOHIT 885 Aashis Das 912 Chetan Jaju	Power Screws * Types of screw threads used for power screw * Multiple threads * Self locking and over hauling screws * Differential and compound screws	B-9 B-8 B-9	14-1-2017 18/3/2017 25/3/2017
03	Machine design	913 Reetesh Sethi 891 Sudhakar Addanki 914 Chinmaya Seth.	Regenerative Breaking System * Expected points: * Meaning of Regenerative breaking system * Working Principle * Advantages * Efficiency with regenerative breaking system	B-8 B-8 B-9	28/1/2017 18/3/2017 25/3/2017
04	Machine design	936 Naqvi Mohd. 904 Akash Malik 915 prabuddha	Flat Belt Drives * Expected points: * Selection of belt drives * Material used for belts * Belt Speed * Belt joints * Power transmitted by belts	 B-8 B-8 B-9	 28/1/2017 18/3/2017 25/3/2017

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S.No	Subject	Name of Student	Seminar Topic		Date of Seminar
05	Machine design	924 Shyam Thakur 916 Priyanka Pigga	V- belt and rope drives * Expected points: * Types of V- belts and pulleys * Advantages and disadvantages * Rope drives concept and advantages * Wire rope fasteners	B-8 B-9	28/1/2017 25/3/2017
06	Machine design	954 faheem Islam 840 Akshay Anand.	Various types of clutches in Machine design * Expected points: * Types of clutches * Positive clutches * Friction clutches * Disc plate clutches	B-8 B-7	28/1/2017 01/4/2017
07	Machine design	942 Jay saxena. 844 pathan Samiullakhan	Design of spring * Expected points * Types of spring * Material for helical spring * Buckling of compression spring * Construction of leaf spring * Standard sizes of automobile suspension springs	B-9 B-7	11/2/2017 01/4/2017
08	Machine design	943 Katawibou 849 Himanshu Gaur	Designing view on spur gears * Expected points: * Involute and cycloidal teeth * Interference phenomenon * Design consideration of spur gear * Dynamic tooth load	B-9 B-7	11/2/2017 01/4/2017

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B.Tech. Semester - 4

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
09	Machine design	944 Tahir Mir 918 Sameer Kumar	Loading conditions on welded joints B-9 * Expected points: * Lap and butt joints * Strength of transverse fillet welded joints B-9 * Strength of parallel fillet welded joints * Eccentrically loaded welded joints	11/2/2017 15/4/2017
10	Machine design	947 Bidhan Chettri 919 Bodala Balaram	Design considerations on riveted joints B-9 * Expected points: * Method of rivets * Types of riveted joints B-9 * Failure and design of riveted joints * Applications	11/2/2017 15/4/2017
11	Machine design	879 Kashish	Manufacturing considerations in machine design B-7 * Expected points: * Manufacturing processes * Interchangeability * Basis of limit system * Roughness and measurement	18/2/2017
12	Machine design	880 Sanjay Singh	Design of chain derives B-7 * Expected points: * Terms used in chain derive * Velocity ratio of chain derives * Characteristics of roller chain derive * Maximum speed for chains * Design procedure of chain derives	18/2/2017

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B.Tech. Semester - 4

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
13	Machine design	881 Shubham Mishra	Concept of worm gears B-7 * Expected points: * Terms used in worm gearing * Types of worm gears * Wear tooth load on worm gear * Applications * Design of worm gears	18/2/2017
14	Machine design	882 Manoj Kumar 933 Sandhya	Designing of internal combustion engine parts * Expected points: B-7 * Principal parts of an I.C. engine * Design of cylinder and piston B-9 * Design of piston pin * Design procedures of crankshaft * Efficiency of I. C. Engine	18/2/2017 25/2/2017
15	Machine design	931 Zafar Haider	Concept of cylindrical shells * Expected points: B-9 * Classification of pressure vessels * Stresses in thin cylindrical shell due to internal pressure * Cylindrical heads and cover plates * Stresses in compound cylindrical shells. * Thin spherical shells and their design.	25/2/2017

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B.Tech. Se mester -4

S.No	Subject	Name of Student	Seminar Topic		Date of Seminar
01	Instruments & Control Engineering	830 PARAS PATEL 832 VINAY 922 pantapalli Ganesh	Open loop and closed loop system * Brief Introducing of both * Examples of both * Advantage & Disadvantage of both * Elements of both the systems * Comparison of both the systems.	B-7 B-7 B-9	14-1-2017 14-1-2017 04/3/2017
02	Instruments & Control Engineering	836 VINAY 839 NITIN 927 Gideon john	CRT * Brief introduction * Construction, principle & working. * Screen for CRTs * Basic CRO circuits * Measurement of phase & frequency.	B-7 B-7 B-9	14-1-2017 14-1-2017 04/3/2017
03	Instruments & Control Engineering	955 ARPIT M. 928 Anurag Kundu. 830 Paras patel	Thermocouple * Brief Introduction * Construction of thermocouple * Principle & Working * Advantage & Disadvantages * Application	B-9 B-9 B-7	21-01-2017 04/3/2017 15/4/2017
04	Instruments & Control Engineering	957 JITENDER YOGI 929 Ayushman 832 Vinay Kumar	LVDT * Brief Introduction * Construction of thermocouple * Advantage& Disadvantages * Applications	B-9 B-9 B-7	21-01-2017 04/3/2017 15/4/2017

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B.Tech. Semester - 4

mr. Raviraj

S.No	Subject	Name of Student	Seminar Topic		Date of Seminar
05	Instruments & Control Engineering	958 RAVINDER S. 859 Rohit Saini 858 Sonali	Wave Analyses * Brief Introductions * Types of wave Analyzers * Principle & Working * Applications of wave Analyzers	B-9 B-7 B-8	21-01-2017 18/3/2017 25/3/2017
06	Instruments & Control Engineering	960 ADARSH A. 860 Nikhil Jasrotia 866 Simran	Strain gauge * Brief Introduction * Theory of strain gauge * Types of strain gauge * Advantage& Disadvantages.	B-9 B-7 B-8	21-01-2017 18/3/2017 25/3/2017
07	Instruments & Control Engineering	894 Abhinav Kumar 861 Pulkit tundwal 868 Purava	Thermistors * Brief Introduction * Construction of thermistors * Resistance-tempt. Characteristics of Thermistor. * Voltage-current & current time char of thermistor. * Salient features * Applications.	B-7 B-7 B-8	28/1/2017 18/3/2017 25/3/2017
08	Instruments & Control Engineering	896 Abhinav Shukla	Piezo-Electric Transducer * Brief Introduction * Modes of operation * Properties of Piezo-electric crystals * Salient features * Applications.	B-7	28/1/2017

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B.Tech. Semester -4

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
09	Instruments & Control Engineering	898 Jigyanshu Singh.	Ultrasonic Flow Transducer B-7 * Brief Introduction * Principle & operation * Properties * Applications.	28/1/2017
10	Instruments & Control Engineering	900 Aman	Study of Errors in Instruments measurements B-7 * Limiting Error * Relative limiting Error * Combination of Errors * Types of Errors	28/1/2017
11	Instruments & Control Engineering	883 Shreyash Bamboo	Digital Volmeter * Introduction * Types and their working B-8 * Applications	11/2/2017
12	Instruments & Control Engineering	885 Aashis Das	Burden tubes * Brief introduction * C-type B-8 * Spiral * Twisted * Helical * Applications	11/2/2017

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S.No	Subject	Name of Student	Seminar Topic		Date of Seminar
13	Instruments & Control Engineering	891 Sudhakar	Tachometer Generators * D.C Tachometer Generators * Advantage & Disadvantages * A.C Tachometer Generators * Applications	B-8	11/2/2017
14	Instruments & Control Engineering	904 AKash Malik 876 Surender singh.	Transducers * Introduction * Classification of transducers * Input characteristics * Transfer characteristics * Transducer response * Output characteristics * Applications	B-8 B-7	11/2/2017 25/2/2017
15	Instruments & Control Engineering	875 Samarth Tiwari	RTD * Brief Introduction * Construction of RTD * Theory of RTD * Characteristics of RTD materials * Applications of RTD	B-7	25/2/2016

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Fluid Mechanics	835 SHIVAM B. 8906 Pankaj Kumar	Surface tension and capillarity B-8 * Introduction * Cohesion and adhesion B-9 * Surface tension * Pressure inside a water droplet/bubble * Capillary rise and capillary depression * Meniscus effect (concave and convex meniscus)	21-01-2017 01/4/2017
02	Fluid Mechanics	838 YASH V. 907 Radhey Mishra	Hydrostatic forces on submerged surfaces B.8 * Introduction * Force on a horizontal submerged plane surface B-9 * Force on a vertical plane submerged surface * Force on an inclined submerged plane surface	21-01-2017 01/4/2017
03	Fluid Mechanics	847 ASHU D. 908 Mohit	Dimensionless numbers and their significance B-8 * Ronald's number (Re) * Fraud number (Fr) B-9 * Mach number (M) * Weber number (W) * Yeller number (E) * Significance of these dimensionless numbers	21-01-2017 01/4/2017
04	Fluid Mechanics	848 ADITYA P. 909 Surjit	Laminar viscous flow B-8 * Introduction to laminar flow * Naiver – Stokes equations of motion B-9 * Laminar flow between stationary parallel plates * Laminar flow in circular pipes (Haven Poiseuille equation)	21-01-2017 01/4/2017

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
05	Fluid Mechanics	887 puneet	Turbulence and turbulent flow through pipes B-7 * Growth of instability and transition from laminar to turbulent flow * Effects of turbulence * Turbulence intensity * Scale of turbulence * Isotropic and homogenous turbulence * Kinetic energy of turbulence	11/2/2017
06	Fluid Mechanics	888 Yash Dinesh.	Laminar and turbulent boundary layers B-7 * Description of boundary layer * Boundary layer parameters * Boundary layer thickness * Displacement thickness * Momentum thickness * Energy thickness * Velocity profiles within a boundary layer * Boundary layer control	11/2/2017
07	Fluid Mechanics	889 Priyam Mittal	Flow in open channel B-7 * Introduction * Terms related to open channel flows * Classification of open channel flows * Flow analysis : the Chezy equation * Economical section for maximum discharge	11/2/2017

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
08	Fluid Mechanics	892 Lavish	Compressible flows in fluid mechanics B-7 * Introduction to compressible flows * Basic thermodynamic relations * Basic thermodynamic processes * Isocaloric (constant volume process) * Isobaric (constant pressure process) * Isothermal (constant temperature process) * Adiabatic process * Isentropic flow relations	11/2/2017
09	Fluid Mechanics	935 Karthik GP	Flow through orifices B-89 * Hydraulic coefficients * Discharge through a sharp edged large orifice * Discharge through a submerged or drowned orifice * Discharge through a partially submerged orifice	18/2/2017
10	Fluid Mechanics	937 Abhishek	Flow through mouthpieces B-9 * Introduction * Flow through an external cylindrical mouthpiece * Flow through an internal cylindrical mouthpiece	18/2/2017
11	Fluid Mechanics	938 Kranthi	Flow through notches and weirs B-9 * Discharge over a rectangular weir * Discharge over a submerged rectangular weir * Discharge over a broad crested weir * Discharge over a triangular or V-notch * Discharge over a trapezoidal weir	18/2/2017

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
12	Fluid Mechanics	940 Mayur pathak	Hydraulic turbines B-9 * Impulse and reaction turbines * Pluton turbine * Work done and efficiency of a pluton wheel * Design aspects of pluton wheel * Radial flow impulse turbine	18/2/2017
13	Fluid Mechanics	853 Tarun	Hydraulic pumps B-8 * Introduction * Pump classification and selection criteria * Pump applications * Centrifugal pumps and its classification * Pressure changes in a pump * Pump losses and efficiencies	04/3/2017
14	Fluid Mechanics	850 Vidhan Vivek 855 Kondepudi suhas	Hydraulic systems * Hydraulic accumulator B-7 * Hydraulic intensifier * Hydraulic crane B-7 * Hydraulic lift * Hydraulic press	25/3/2017 25/3/2017
15	Fluid Mechanics	852 Sai siva ganesh	Flow losses in pipes * Introduction * Types of losses B-7 * Minor and major losses * Tracy equation for head loss due to friction * Minor head losses * Sudden enlargement * Sudden contraction * Losses at bends, elbows, tees and other fittings	25/3/2017