BATCH-10

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S.No	Subject	Name of Student		Seminar Topic	Date of Seminar
01	Fluid Mechanics	1012 - BRAHM DEO PAVITSA DOSHI	Surface tension and capillarity * Introduction * Cohesion and adhesion * Surface tension * Pressure inside a water * Capillary rise and capillary * Meniscus effect (concay	e tension and capillarity Introduction Cohesion and adhesion Surface tension Pressure inside a water droplet/bubble Capillary rise and capillary depression Meniscus effect (concave and convex meniscus)	17-02-18
02	Fluid Mechanics	1019 - GAURAU 1059 - SHIVAM KRISHNA PANDEY	Hydrostatic forces of the state	Hydrostatic forces on submerged surfaces * Introduction * Force on a horizontal submerged plane surface * Force on a vertical plane submerged surface * Force on an inclined submerged plane surface	17-02-18
03	Fluid Mechanics	TOZI - PAKAZ	Dimensionless numbers and * Ronald's number (Re) * Fraud number (Fr) * Mach number (M) * Weber number (W) * Yeller number (E) * Significance of these	nbers and their significance mber (Re) er (Fr) er (M) per (W) er (E) of these dimensionless numbers	17-02-18
04	Fluid Mechanics	1624 - ARSHDEEP	Laminar viscous flow * Introduction to laminar * Naiver – Stokes equa * Laminar flow betweer * Laminar flow in circulal equation	ar viscous flow Introduction to laminar flow Naiver – Stokes equations of motion Laminar flow between stationary parallel plates Laminar flow in circular pipes (Haven Poiseuille equation)	17-02-18

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S.No	Subject	Name of Student	Seminar Topic
08	Fluid Mechanics	1033- RAMANLOT	Compressible flows in fluid mechanics * 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
09	Fluid Mechanics	1034 - SCURABH MISHRA	Flow through orifices * Hydraulic coefficients * Discharge through a sharp edged large orifice * Discharge through a submerged or drowned orifice * Discharge through a partially submerged orifice
10	Fluid Mechanics	1035- MATTUKOYYA	Flow through mouthpieces * Introduction * Flow through an external cylindrical mouthpiece * Flow through an internal cylindrical mouthpiece
<u> </u>	Fluid Mechanics	1036 - PRAZAV KUMAK VERMA	Flow through notches and weirs * 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

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S.No 94 03 02 2 design design design Machine design Machine Machine Machine Subject 2901 1062 1060-1061 Name of Student SH ZODHYA NH ZOH DEEPAK MAZDAR ANTI BHARDUAT REDDY HSHAZT TIMO THSOL Regenerative Breaking System Factor of safety in machine design Flat Belt Drives Power Screws Belt Speed Belt joints Expected points: Working Principle Meaning of Regenerative breaking system Power transmitted by belts Material used for belts Selection of belt drives Efficiency with regenerative breaking system Advantages Expected points: Differential and compound screws Self locking and over hauling screws Multiple threads Types of screw threads used for power screw Function of factor of safety Significance of factor of safety Selection of factor of safety Definition Factor of safety value for different materials Seminar Topic 31-03-2018 31-03-31-03 Date of Seminar B.Tech. Semester - 4 -2018

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S.No Subject Name of Student Date of Seminar Topic SATSANGA 10 Machine design 10 Machine design 10 Machine design 10 Machine design 11 Machine design Machine design 12 Machine design 13 Machine design 14 Machine design 15 Types of inveted joints Expected points Expected points Expected points Expected points Expected points Expected points Applications on riveted joints Expected points Expected points Expected points Applications Manufacturing considerations in machine design Expected points Expected p	•			-
Machine design \$\text{SATSANGI}\$ * Expected points: * Lap and butt joints * Strength of transverse fillet welded joints * Strength of parallel fillet welded joints * Expected points: * Expected points: * Expected points: * Types of riveted joints * Expected points: * Applications on riveted joints * Expected points: * Applications Machine design Manufacturing considerations in machine design of riveted joints: * Applications * Expected points: * Expected points: * Applications * Expected points: * Applications * Expected points: * Types of riveted joints * Expected points: * Applications * Expected points: * Types of riveted joints * Expected points: * Expected points:		Name of Student	Seminar Topic	Date of Seminar
Machine design Machine design SINCAN * Expected points: * Method of rivets * Types of riveted joints * Expected points: * Method of rivets * Types of riveted joints * Expected points: * Manufacturing considerations in machine design of riveted joints * Expected points: * Manufacturing processes * Interchangeability * Basis of limit system * Roughness and measurement Design of chain derives * Velocity ratio of chain derive * Maximum speed for chains * Design procedure of chain derives * Maximum speed for chain derive		1	Loading conditions on welded joints * Expected points: * Lap and butt joints * Strength of transverse fillet welded joints * Strength of parallel fillet welded joints * Eccentrically loaded welded joints	67-04-18
Machine design Machine design			Design considerations on riveted joints * Expected points: * Method of rivets * Types of riveted joints * Failure and design of riveted joints * Applications	67-64-18
Machine Design * * * * * * * *			Manufacturing considerations in machine design * Expected points: * Manufacturing processes * Interchangeability * Basis of limit system * Roughness and measurement	
			Design of chain derives * 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	

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1-04, KI	CO industrial A	3-04, KIICO Industriai Area, Neemrana, Dist. Alwar, Rajastiian	r, Rajasman	B.Tech. Semester - 4
S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Introduction to Aeronautics	1000 - PRIYA	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	3197 - 19-51
02	Introduction to Aeronautics	1002- ABHITENDA	Classification of airplanes by configuration * Position of wings in respect to axis of fuselage * Number of wings * Shape of wings * Position of wings	13-01-2018
03	Introduction to Aeronautics	1003 - ABHICHEK	Classification of airplanes by power plants * Power plant types * Number of engine * Location of engine	20-01-2018
04	Introduction to Aeronautics	1004 - ABHISHEK MAURYA	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.	20-01-2018

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1-04, RII	CO Industrial A	1-04, RIICO Industrial Area, Neemrana, Dist. Alwar, Rajasthan	ar, Rajasthan	B.Tech. Semester - 4
S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
09	Introduction to Aeronautics	1009- A KASH S	Stability of an Airplane * What is stability of airplane * Static and dynamic stability * Dynamic unstability during flight - Spin - Spiral - Phugoid - Dutch roll	27-01-18
10	Introduction to		roll of airplane why	
10	Introduction to Aeronautics	1011 - SURKHAB	V-N Diagram of airplane why do we need such diagram? * What is Load factor * What is V-N diagrams * What is requirements of V-N dlagram	27-01-18
⇒ = = = = = = = = = = = = = = = = = = =	Introduction to Aeronautics	OJ3- HITTESH SURYAPRAKASH SHARMA	 VTOLAircraft * What is VTOL * Configuration/features of such aircraft * Principle of operation of VTOL aircraft * What is a no tail rotor aircraft? How it function? 	10-02-18
12	Introduction to Aeronautics	1014 - VAIBHAV	Function of a Turbo for engine? * Schematic diagram * Identification of components * Principle operation * Thrust calculation	10-02-18
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S.No 15 4 3 Aeronautics Aeronautics Aeronautics Introduction to Introduction to Introduction to Subject 1017 - ABHINAV 1016 - VILLEZDRA Name of Student PAZDEY NANH Different types of drag acting on airplane during flight Airplane construction Advanced composite structure used in modern airplane Mechanical properties required by materials to be used in Hardness Advantage of use Conductivity Drag due to shock wave/ compressibility Drag due to parasite surfaces Drag due to trailing vortices Drag due to wing structure. What is advanced composite structure Strength to weight ratio Malleability Ductility Elasticity Drag due to iter borence Basic component of an advanced composite Purpose of wing each type of materials Reintorcing materials Matrix materials Type of reintorcing materials Purpose of using each type of material Purpose of using each type of materials Core materials Type of matrix materials Type of core materials Seminar Topic 0 O Date of Seminar 102-18 5

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27-01-18	Progress in Airoscope applications * Progress in speed and altitude * Progress in space vetricles * Progress in satellites * Progress in space craft * Space shuttle	1008 - ADITYA KUMAR	Introduction to Aeronautics	08
27 -01-18	Classification and functioning of direct reaction power plants * Turbo jet * Turbo prop * Turbo fan * Turbo shaft * Ram jet * Pulse jet * Scram jet	1007 - JASMEET KAUR	Introduction to Aeronautics	07
	- Indirect reaction power plants principles of operations - Direct reaction power plants principle of operations - Pure reaction power plants principle of operations			,
20-01-18	Various means of producing power in airplane * What is power plant * Classification of power plant	1006 - AMPT	Introduction to Aeronautics	06
20-01-18	Thrust arguments in engines * Thrust argumentation in piston engine * Thrust argumentation in jet engine	1005 - PULKTT	Introduction to Aeronautics	05
Date of Seminar	Seminar Topic	Name of Student	Subject	S.No

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S B. Tech. Semester - 4

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
05	Machine design	1066 - SHIVANSH VAIDYA	V- belt and rope drives * Expected points: * Types of V- belts and pulleys * Advantages and disadvantages * Rope drives concept and advantages * Wire rope fasteners	31-03-18
06	Machine design	1068 - SAURABH BAHVGUM	Various types of clutches in Machine design * Expected points: * Types of clutches * Positive clutches * Friction clutches * Disc plate clutches	8 1- ha- Lo
07	Machine design	1069 - VASHNU SAGAR	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	81-ho-60
08	Machine design	1070- BHANDERI	Designing view on spur gears * Expected points: * Involute and cycloidal teeth	07-04-12

SI AZASTVAN

Dynamic tooth load

Design consideration of spur gear

Interference phenomenon

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S.No 15 14 3 12 Fluid Mechanics Mechanics Mechanics Mechanics Subject 1053 1041 - SACRAY 1042- RAHUL 1037 - PATEL Name of Student いかCエHス STIVANSH 大くろみア MOZDAL NHARMA MUKESH POY Hydraulic turbines Hydraulic pumps
* Introduction Flow losses in pipes Hydraulic systems Work done and efficiency of a pluton wheel Pump applications Pluton turbine Impulse and reaction turbines Sudden contraction Hydraulic crane Hydraulic intensifier Hydraulic accumulator Pump losses and efficiencies Centrifugal pumps and its classification Pump classification and selection criteria Radial flow impulse turbine Design aspects of pluton wheel Sudden enlargement Hydraulic press Pressure changes in a pump Losses at bends, elbows, tees and other fittings Minor head losses Minor and major losses Types of losses Introduction Tracy equation for head loss due to friction Hydraulic lift Seminar Topic 17-03-2018 17-03-2018 10-03-2018 Date of Seminar

B. Tech. Semester - 4°

S.No Subject	Name of Student	Seminar Topic	Date of Seminar
05 Fluid Mechanics	1025 - SANDEEP KUMAR MOHANTY	Turbulence and turbulent flow through pipes * 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	0 U U U U U U U U U U U U U U U U U U U
06 Fluid Mechanics	1026 - SONALI CHOUDHURY	Laminar and turbulent boundary layers * 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	03-03-18
07 Fluid Mechanics	1082 - THATIKONDA	Flow in open channel * Introduction * Terms related to open channel flows * Classification of open channel flows * Flow analysis: the Chezy equation * Economical section for maximum discharge	03-03-18