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

S.No 12 그 10 9 Engineering Engineering Control Instruments & Engineering Control Instruments & Engineering Control Instruments & Control Instruments & Subject Name of Student Burden tubes Digital Volmeter Study of Errors in Instruments measurements Ultrasonic Flow Transducer C-type Spiral Twisted Applications Applications. Properties Principle & operation Brief Introduction Applications **Brief introduction** Introduction Combination of Errors Relative limiting Error Limiting Error Helical Types of Errors Types and their working Seminar Topic Date of Seminar B. Tech. Semester -4

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

S.No 04 03 9 02 design design design design Machine Machine Machine Machine Subject 1020-1022 - MIR 1027 -1010-Name of Student SATIGAM SAHO 大いろほの SURAJ DAID Factor of safety in machine design Flat Belt Drives Regenerative Breaking System Power Screws Expected points: Selection of belt drives Belt joints Belt Speed Material used for belts Working Principle Meaning of Regenerative breaking system Selection of factor of safety Definition Power transmitted by belts 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 Factor of safety value for different materials Significance of factor of safety Function of factor of safety Seminar Topic 20-01-18 20-01-18 20-01-18 20-01-18 Date of Seminar

		3		
S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
09	Machine design	1028 - RAHUL KUMAR PASI	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	27-01-18
10	Machine design	1039- RUPESH	Design considerations on riveted joints  * Expected points:  * Method of rivets  * Types of riveted joints  * Failure and design of riveted joints  * Applications	27-01-18
,, , , , , , , , , , , , , , , , , , ,	Machine design	1044 - ADHUNIK ABHINAV	Manufacturing considerations in machine design  * Expected points:  * Manufacturing processes  * Interchangeability  * Basis of limit system  * Roughness and measurement	27-01-18
12	Machine design	1047- DEEPAK RAJ POUDEL	Pesign 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	10-02-18

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

S.No 03 02 9 94 Aeronautics Introduction to Introduction to Aeronautics Aeronautics Aeronautics Introduction to Introduction to Subject 1063 - MUMMAREDY 1076 - AREEB NAGA P. PRASAD 1057 - SUMIT 1077 - DIVXA Name of Student ひとのひとり スコアロス Classification of airplanes by configuration Classification of airplanes by power plants various efforts in pre-weight brother's eve to fly ift argumentation devices Power plant types Position of wings in respect to axis of fuselage Location of engine Number of engine Position of wings Shape of wings Number of wings Octo lilienthal's glider Mozhaiskils aircraft Due temple's airplane Stringfellow's model William samuel hansom's aerial steam carriage Cayley's model glider Sir George cayley's design. Hydrogen filled balloon by J.A.C Charles Montgolfier hot air balloons Ornithopte Pitcher's glider Devices to control camber Assisted lift during take off. Devices to control boundary layer Devices to control the flow at leading edge Seminar Topic 17-02-18 03-03-18 7-02-18 17-02-18 **Date of Seminar** B. Tech. Semester - 4

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

B. Tech. Semester - 4

S.No 10 9 12 그 Aeronautics Aeronautics Aeronautics Aeronautics Introduction to Introduction to Introduction to Introduction to Subject 110 4- SHUBHAM 1099- ABDULLAH Name of Student DLAN SHARMA Stability of an Airplane V-N Diagram of airplane why do we need such diagram? Function of a Turbo for engine? TOL Aircraft Schematic diagram Spiral Identification of components Configuration/features of such aircraft What is VTOL What is Load factor Phugoid Spin Principle operation What is requirements of V-N dlagram What is V-N diagrams **Dutch roll** What is a no tail rotor aircraft? How it function? Principle of operation of VTOL aircraft Dynamic unstability during flight Static and dynamic stability What is stability of airplane Thrust calculation Seminar Topic 10-03-18 0-03-18 Date of Seminar

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

S.No 4 3 15 Introduction to Aeronautics Aeronautics Aeronautics Introduction to Introduction to Subject Name of Student 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 Drag due to iter borence Drag due to parasite surfaces Drag due to trailing vortices Advantage of use Drag due to wing What is advanced composite structure Conductivity Strength to weight ratio Malleability Ductility Elasticity Drag due to shock wave/ compressibility. structure. Basic component of an advanced composite Purpose of wing each type of materials Reintorcing materials Type of reintorcing materials Purpose of using each type of material Core materials Purpose of using each type of materials Matrix materials Type of matrix materials Type of core materials Seminar Topic Date of Seminar

## School of Aeronautics (Aeronaua)

I-04, RII	CO Industrial A	I-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
05	Introduction to Aeronautics	DWEED KHAH	Thrust arguments in engines  * Thrust argumentation in piston engine  * Thrust argumentation in jet engine	03-03-18
06	Introduction to Aeronautics	1081 - At15 KHAN	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	03-03-18
07	Introduction to Aeronautics	1083- VIVEK	Classification and functioning of direct reaction power plants  * Turbo jet  * Turbo prop  * Turbo fan  * Turbo shaft  * Ram jet  * Pulse jet  * Scram jet	10-03-18
08	Introduction to Aeronautics	1086- AMOD RANJAN	Progress in Airoscope applications  * Progress in speed and altitude  * Progress in space vetricles  * Progress in satellites  * Progress in space craft  * Space shuttle	10-03-18

# Schuul of Aeronautics (Neemuana) 1-04, RIICO Industrial Area, Neemrana, Dist. Alwar, Rajasthan

15	14	13	S.No	
Machine	Machine design	Machine design	Subject	
	1050- RAJ KUMAR	1049 - ADESH KUMJAR	Name of Student	
Concept of cylindrical shells  * Expected points:  * Classification of pres  * Stresses in thin cylind pressure  Cylindrical heads and Stresses in compount  * Thin spherical shells	Designing of internal co  * Expected points:  * Principal parts of  * Design of cylinde  * Design of piston  * Design procedure  * Efficiency of I. C.	Concept of worm gears  * Expected points:  * Terms used in worm go  * Types of worm go  * Wear tooth load  * Applications  * Design of worm		,
pt of cylindrical shells Expected points: 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.	Designing of internal combustion engine parts  * Expected points:  * Principal parts of an I.C. engine  * Design of cylinder and piston  * Design of piston pin  * Design procedures of crankshaft  * Efficiency of I. C. Engine	pt of worm gears Expected points: Terms used in worm gearing Types of worm gears Wear tooth load on worm gear Applications Design of worm gears	Seminar Topic	
	10-02-18	10-02-18	Date of Seminar	

I-04, RIICO Industrial Area, Neemrana, Dist. Alwar, Rajasthan S.No 07 80 90 05 design design design design Machine Machine Machine Machine Subject Name of Student V- belt and rope drives Designing view on spur gears Design of spring Various types of clutches in Machine design Wire rope fasteners Advantages and disadvantages Types of \( \psi \)- belts and pulleys Expected points: Expected points: Material for helical spring Expected points Disc plate clutches Expected points: Rope drives concept and advantages Involute and cycloidal teeth Construction of leaf spring Types of spring Friction clutches Positive dutches Dynamic tooth load Design consideration of spur gear Standard sizes of automobile suspension springs Buckling of compression spring Interference phenomenon Types of clutches Seminar Topic Date of Seminar B. Tech. Semester - 4

	RTD  * Brief Introduction  * Construction of RTD  * Theory of RTD  * Characteristics of RTD materials  * Applications of RTD		Instruments & Control Engineering	15
	Fransducers  * Introduction  * Classification of transducers  * Input characteristics  * Transfer characteristics  * Transducer response  * Output characteristics  * Applications		Instruments & Control Engineering	<del>1</del> 4
	Tachometer Generators  * D.C Tachometer Generators  * Advantage & Disadvantages  * A.C Tachometer Generators  * Applications		Instruments & Control Engineering	<u> </u>
Date of Seminar	Seminar Topic	Name of Student	Subject	S.No

# School of Aeronautics (Neemaan) 1-04, RIICO Industrial Area, Neemrana, Dist. Alwar, Rajasthan

	Piezo-Electric Transducer  * Brief Introduction  * Modes of operation  * Properties of Piezo-electric crystals  * Salient features  * Applications.	Pie	Instruments & Control Engineering	08
	Thermistors  * Brief Introduction  * Construction of thermistors  * Resistance-tempt. Characteristics of Thermistor.  * Voltage-current & current time char of thermistor.  * Salient features  * Applications.	Ţ	Instruments & Control Engineering	07
	Strain gauge  * Brief Introduction  * Theory of strain gauge  * Types of strain gauge  * Advantage& Disadvantages.	Str	Instruments & Control Engineering	06
	Wave Analyses  * Brief Introductions  * Types of wave Analyzers  * Principle & Working  * Applications of wave Analyzers	We	Instruments & Control Engineering	05
Date of Seminar	Seminar Topic	Name of Student	Subject	S.No