

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

Ms. VARSHA
Optional B-13

B-12, 13, 14

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

B.Tech. Semester -5

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Fatigue and Fracture	Reg. No. 1254 ANAS B-13	Elements of solid Machines	24/08/2019
02	Fatigue and Fracture	Reg. No. 1255 CHAMANDIP BHALLA B-13	Common causes of failure * Yielding * Buckling * Creep * Resonance * Wear * Deflection	24/08/2019 <u>Chamandip</u>
03	Fatigue and Fracture	Reg. No. 1256 DEEPAK KUMAR B-13	Modes of Fracture * Opening mode * Sliding mode * Tearing mode	24/08/2019 <u>Deeprak Kumar</u>
04	Fatigue and Fracture	Reg. No. 1257 ASLIK JACOB B-13	Griffith's Analysis for energy method * Surface energy * Energy released * Griffith's dilemma * Griffith's analysis	31/08/2019

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B.Tech. Semester -5

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
05	Fatigue and Fracture	Reg. No. 1189 RAMAN B - 13	Crack Resistance and R-curve * Crack Resistance * R-curve for Brittle materials * R-curve for Ductile materials	31/8/2019 <u>Raman</u>
06	Fatigue and Fracture	Reg. no. 1263 LAUT DISHMUKH B - 13	Stable and unstable crack growth * Description G & R curve	31/08/2019 <u>Laut Dishmukh</u>
07	Fatigue and Fracture	Reg. no. 1268 VIVEK ANAND JHA B - 13	Linear Elastic Fracture mechanics * Irwin's Assumption * Small scale yielding Structure Analysis Materials of LEFM	14/9/2019 <u>Vivek Jha</u>
08	Fatigue and Fracture	Reg. no. 1278 KARUNI RATHORE B - 13	Elasto plastic Fracture mechanics * Plastic deformation Materials of EPFM Fracture Toughness Classification based on plastic zone	14/09/2019 <u>Karuni Rathore</u>

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B.Tech. Semester-5

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
09	Fatigue and Fracture	Reg. no. 1279 AADHAR SONWAL B-13	Stress Intensity Factor * Axes wet to crack in a plate * Stress and displacement field * Derivation for stress intensity factor	14/9/2019
10	Fatigue and Fracture	Reg. no. 1183 GRADHAA CHIRI B-13	Field equations * Equilibrium eq. relating to stress components * Strain displacement relating * Stress strain relation	28/9/19
11	Fatigue and Fracture	Reg. no. 1200 SORABH BORORIA B-13	Airy's Function * Biharmonic differential eq. derivation Determination of Airy's function	28/9/19
12	Fatigue and Fracture	Reg. no. 1291 RITU RAJ B-13	Irwin's and Dugdale's approximation for plastic zone size * Plastic zone size * Effect crack length * Irwin approach to find plastic zone size & effective crack length * Dugdale's approach to find plastic zone size & effective crack length	28/9/19 

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Ms. SONALI

B.Tech. Semester -5

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Vibration Engineering	Reg. No. 1170 VENKATESH B-12	Simple Harmonic Motion * Introduction * Basic Definition * Vector method of representing harmonic motions * Addition of two simple harmonic motions of the same frequency * Phenomenon of beats * Complex method of representing harmonic motion	31/8/2019 P. M. H.
02	Vibration Engineering	Reg. No. 1194 ANIL KUMAR B-12	Undamped Free Vibrations of Single Degree of Freedom System * Introduction * Derivations of differential equations * Solution of differential equation * Torsional Vibrations * Equivalent stiffness of spring combinations * Spring in Series * Spring in Parallel * Inclined Springs	31/8/2019

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MS - SONALI

B. Tech. Semester -5

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
03	Vibration Engineering	Reg. No. 1205 AJAY SHARMA DAS B - 12	Damped Free Vibrations of Single Degree of Freedom System	31/8/2019
04	Vibration Engineering	Reg. No. 1214 AJAY SHARMA B - 14	Viscous Dampers * Introduction * Fluid dashpot * Eddy current damping * Dry friction or coulomb Damping * Frequency of Damped Oscillations * Rate of Decay of Oscillations * Solid or structural damping * Slip or Interfacial Damping	14/09/2019

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B.Tech. Semester -5

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
05	Vibration Engineering	Reg. No. 1218 SAHAR SHAMBHU B - 14	Forced Vibrations of Single Degree of Freedom Systems	14/09/2019 <i>Sonali</i>
06	Vibration Engineering	Reg. No. 1212 HRITIK PIRTA B - 14	Vibration Isolation and transmissibility * Introduction * Forced transmissibility * Motion transmissibility * Typical isolators & mount types	14/09/2019

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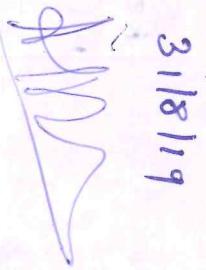
B.Tech. Semester -5

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
07	Vibration Engineering	Reg. No. 1234 GOMPA BABU B-12	Vibration Measuring Instruments	28/9/19 <i>soft college</i>
08	Vibration Engineering	Reg. No. 1247 SURYA PRAKASH P B-12	Two Degree of Freedom Systems * Introduction * Principle modes of vibrations * Cases of simple two degree of freedom systems * Two masses fixed on a tightly stretched string * Double Pendulum * Torsional System	28/9/19
09	Vibration Engineering	Reg. No. 1250 LAKSHAY VAIID B-12	Vibration Absorbers * Introduction * Undamped dynamic vibration absorbers * Centrifugal pendulum absorbers * Dry friction damper * Untanned viscous damper	28/9/19 <i>soft college</i>

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Mr. SUKUMAR

B.Tech. Semester -5

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Aircraft System	Reg. No. 1188 VANSH RATPUT B-14	Explain the Push Pull Rod System * Explain this system in detail * Figures/block diagram * Advantage/Disadvantage * Examples	3/18/19 Jawwab
02	Aircraft System	Reg. No. 1193 HIMANSHU SHARMA B-14	Flexible Push Pull Rod System * Explain in detail * Figures/ Block Diagrams * Advantage/Disadvantages * Example	3/18/19
03	Aircraft System	Reg. No. 1196 KAILESH SHARMA B-14	Fly by wire system * Explain * Various component/parts/equipment required * Advantage /Disadvantages * Future scope	3/18/19 
04	Aircraft System	Reg. No. 1199 PAUL PRAKASH B-14	Instrument landing system * Explanation * Frequencies used (Marker Beacon etc) * Applications * Need to use it * Advantages over normal landing	07/09/2019

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B.Tech. Semester -5

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
05	Aircraft System	Reg. No. 1204 ASHISH ROHILA B-14	VOR * Meaning VOR * Applications * Types of VOR * Difference b/w VOR & Previous frequencies being used	07/09/19 <i>Dewi</i>
06	Aircraft System	Reg. No. 1209 MITTAPALLY HIMANTU B-14	Hydraulic systems * What is Hydraulic system * Different types of Hydraulic system * Hydraulic Fluids Uses * Precaution & Maintenance Working Principle	07/09/19 <i>Himantu</i>
07	Aircraft System	Reg. No. 1169 AARTYA CHAVADEY B-12	Landing Gear * Working principle * Different types of landing gear Problem faced * Different mechanism	14/09/19 <i>Rajesh</i>
08	Aircraft System	Reg. No. 1220 DANNY YADAV B-12	Retroactive landing gear * Working principle * Different between other types * Advantages/Disadvantages Figure/ Diagram	14/09/19 <i>Danny</i>

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Mr. SUKUMAR

B.Tech. Semester -5

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
09	Aircraft System	Reg. No. 1227 ANKUR KUMAR B - 12	Fuel pumps * Explain different type of fuel pumps (with figure) * Advantages * Need of these pumps	14/9/19 14/9/19
10	Aircraft System	Reg. No. 1221 RISHABH VERMA B - 14	Fuel Tank * Dimensions of a fuel tank (shape & size) * Fuel Infiltration * Precautions * Various locations of fuel tanks along with their advantages	21/9/19 Rishabh
11	Aircraft System	Reg. No. 1232 UTKARSH GUPTA B - 14	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	21/9/19 Utkarsh
12	Aircraft System	Reg. No. 1236 YATIN ANILAWAT B - 14	Deicing and Anti Icing system * What do you mean by Antiicing system * Why do we need such a system	21/9/19 Left college

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Mr. KORAPATTI AKHIL

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

B.Tech. Semester-5

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Propulsion	Reg. No. 1175 SUVUBAAM B - 14	Subsonic Inlet of Gas Turbine engine	24/08/2019
02	Propulsion	Reg. No. 1177 DURUV B - 14	<ul style="list-style-type: none"> * What is Inlet * Stream patterns for subsonic inlet * Inlet pressure ratio * Inlet sizing * Inlet flow distortion * Inlet drag <p>Supersonic Inlets</p> <ul style="list-style-type: none"> * Basics of one dimensioned Inlet flow * Condition at throat * Condition at normal shock wave 	24/08/2019 <u>Isse Ase.</u>
03	Propulsion	Reg. No. 1184 SIDHARTH B-14	<p>Exhaust nozzles</p> <ul style="list-style-type: none"> * What is the function of exhaust nozzles * Types of nozzles * Nozzle functions * Thrust functions * Infrared signature * Nozzle coefficient * Nozzle performance 	24/08/2019

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MR. KORAPATI ACHIL

B.Tech. Semester -5

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
04	Propulsion	Reg. No. 1210 AADHYA GUPTA B-12	Combustion chambers (Burners) * Types * Components * Airflow distribution and cooling * Combustion efficiency * Main burner design parameters	07/09/2019 <i>Addyga</i>
05	Propulsion	Reg. No. 1213 HIMANSHU SHARMA B-12	After Burner * Purpose * Process of after burning * Components - Diffusing - Fuel injection, automation and vaporization - Ignition - Flame stabilization	07/09/19
06	Propulsion	Reg. No. 1215 SOVRABH PAL B-12	Factions affecting stage processor ratio * Top speed * Axial velocity * High fluid deflection in the rotor blades	07/09/19 <i>Raj</i>

School of Aerodynamics (Neemrana)

MR. KORAPATI AKELIC

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B.Tech. Semester -5

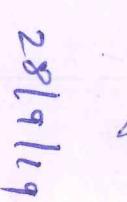
S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
07	Propulsion	Reg. No. 1165 SURAJ KUMAR B-13	Compressibility effects in axial flow compressors * Effects of Mach number * Variation of entry Mach numbers * Shock loss * Cascade testing	21/09/2019 <i>Dwivedi</i>
08	Propulsion	Reg. no. 1174 JUVI SHRIVASTAVA B-13	Limiting factors in Turbine design * Centrifugal stresses Gas bending stresses Optimizing the design Velocity triangles	21/09/2019 <i>Dwivedi</i>
09	Propulsion	Reg. no. 1179 AASTHA TAWAR B-13	Liquid propellant rockets * Selection of liquid propellant * Thrust control Advantages of liquid propellant over solid propellant * Thrust equation	21/09/2019 <i>Aastha</i>

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MR. KORAPATHI AKHIL

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B.Tech. Semester -5

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
10	Propulsion	Reg. No. 1241 SOMANDIP B - 14	Advanced rocket propulsion Techniques * Electric Rocket propulsion * Nuclear Rocket Propulsion	28/9/14 
11	Propulsion	Reg. No. 1245- SAWMYA RAJORA B - 14	Solid Propellant used in Rocket * Types of Propellant * Processing method of propellant * Combustion process * Advantages of using solid propeller nets	28/9/14 
12	Propulsion	Reg. No. 1249 SHARAN SHAMBHU B - 14	Explain types of turbojet compressors	28/9/14 
13	Propulsion		Explain all types of combustion chambers	
14	Propulsion		Explain about turbine nozzle diaphragm and turbine	
15	Propulsion		Explain the function and operation of exhaust system of a jet engine	
16	Propulsion		Explain about the purpose constructionist function of thrust reversal.	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Aircraft Structure	Reg. No. 1185 VARUN VAID B-12	Slope and Deflection * Slope of cantilever beam with point load * Deflection of cantilever beam with point load * Slope of cantilever beam with U.D.L * Deflection of cantilever beam with point load * Slope of simply supported beam with point load at centre.	24/08/2019 <u>Varun</u>
02	Aircraft Structure	Reg. No. 1190 RAHUL SAINI B-12	Double integration method * Derivation of slope and deflection * Calculation of slope and deflection for cantilever with U.D.L. * Calculation of slope and deflection for simply supported beam with U.D.L. and point load.	24/08/2019 <u>Rahul Saini</u>
03	Aircraft Structure	Reg. No. 1202 MANU DIXIT B-12	Maculae's method * Slope of cantilever beam with point load * Deflection of cantilever beam with point load * Slope of cantilever beam with U.D.L * Deflection of cantilever beam with point load * Slope of simply supported beam with point load at centre.	24/08/2019 <u>Manu Dixit</u>

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
04	Aircraft Structure	Reg. No. 1265 CHANDAN KUMAR B - 13	Area moment Theorem * Derivation of slope and deflection * Calculation of slope and deflection for cantilever with U.D.L. * Calculation of slope and deflection for simply supported beam with U.D.L. and point load.	07/9/19 Chandan Kumar
05	Aircraft Structure	Reg. No. 1286 ANSUJ DUBEY B - 13	Statically determinate structures * Analysis of plane truss Types of frame Indeterminate structures * Determinate structures	07/9/19 Ansuj Dubey
06	Aircraft Structure	Reg. No. 1266 SAKSHAM ARORA B - 13	Method of joints * Supports concept Calculation of reaction support Calculation of force in the member Sign notification * Tension and compression force calculation	07/9/19 Saksham Arora

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
07	Aircraft Structure	Req. no. 1238 MISURA SURENDRA B - 12	Method of section * Supports concept * Calculation of reaction support * Calculation of force in the member * Sign notification * Tension and compressions force calculation	21/09/2019
08	Aircraft Structure	Req. no. 1217 MANU THAKUR B - 12	Graphical method * Space diagram * Bow notation * Scaling of frame * Measurement of force magnitude.	21/09/2019
09	Aircraft Structure	Req. no. 1244 AKSHAY HODARA B - 12	Statically indeterminate structure * Fixed beam concept * Calculation of restoring couple * Calculation of central deflection * Calculation of deflection with offset loading * Resolution fixed and reaction force	21/09/2019