

# School of Aeronautics (Neemrana)

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

B.Tech. Semester -6

Mr. Mathew

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Aircraft structure-II	752 SURAJ R. 753 RAGINI	Unsymmetrical Bending * Principle axis method * Neutral axis method * Bending stress of Z section. * Bending stress of L section	B-5 14-1-2017 B-5 14-1-2017
02	Aircraft structure-II	754 YISHAL 756 GITESH	Bending stress calculation * Bending stress calculation using principle axis method. * Bending stress calculation using neutral axis method. * Bending stress calculation using K-Method.	B-5 14-1-2017 B-5 14-1-2017
03	Aircraft structure-II	727 ANKUR V. 728 MUHSIN	Application of unsymmetrical bending * Bending stress for mono spar and multispeed beam. * Bending stress distribution on stringer and ribs. * Design of lightening holes in wing structure.	B-6 21-1-2017 B-6 21-1-2017
04	Aircraft structure-II	735 RAGHAV X.	Shear flow in closed section. * Concept of shear flow, ELastic axis shear centre. * Thin walled beam's analysis. * Calculation method of shear centre and shear flow.	B-6 21-1-2017
05	Aircraft structure-II	805 YASH K.	Shear flow in thin walled bean * Shear flow of thin walked beam's in fuselage. * Shear flow of thin walled beam's in wing. * Shear flow of thin walled bean on tail plane unit.	B-6 28-01-2017

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06	Aircraft structure-II	806 DEEPAK G. 737 PIYUSH	Shear flow in unsymmetrical bean section * Shear on flow in channel c section * Shear flow in angle L section. * Application in aircraft structure components.	B-6 B-6 28-01-2017 18-03-2017
07	Aircraft structure-II	808 AKALA DHAMA 738 BADRI V.	Shear flow in closed section * Application of bredt-batho formula. * Bred batho for close Loops. * Calculation of shear flow in and on rectangular rings.	B-6 B-6 28-01-2017 18-03-2017
08	Aircraft structure-II	930 M. HAMDAN 473 VIVEK S.T.	Single and multi- cell structures * Concept of single cell and multicell structure. * Application of multicell structure. * Shear flow in single and multicell structure.	B-6 B-6 28-01-2017 18-03-2017
09	Aircraft structure-II	<del>764 GOPAL JAT</del> 800 PRITHVI 746 DEEPAK	Shear flow in single and multicell under bending * Shear flow due to bending. * Graphical representation of shear flow in multicell. * Concept of effective and in effective cell bending of walls.	B-5 B-6 11-02-2017 18-03-2017
10	Aircraft structure-II	<del>770 SHASHIKANT</del> 801 AAKASH T	Buckling of plates. * Various condition of bucking and crippling stress. * Bucking of rectangular sheets under compression. * Application of short and long column.	B-5 11-02-2017

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
11	Aircraft structure-II	809 RAHUL K.	Needham's and Gerard's method. * Application of needham's method * Various end condition of needham's method. * Application of Gerard's method. * Calculation method for thin walled section.	B-5 11-02-2017
12	Aircraft structure-II	812 MAHOJ PAL 783 SHUBHAM M.	Thin walled column strength. * Calculation of stiffness strength on stiffnes plates. * Calculation of effective width. * Thermal post bucking of aircraft wing.	B-5 B-5 11-02-2017 04-03-2017
13	Aircraft structure-II	767 AMIT CH. 785 ISHWARYA	Stress Analysis in wing and fuselage * Stress distribution or wing surface (Different place) * Stress distribution over fuselage system * Concept of dension field bean (Wagner's type.)	B-6 B-5 18-02-2017 04-03-2017
14	Aircraft structure-II	771 MAMAM G. 786 S. AHRAR	Shear and bending moment distribution. * Relation between shear force & bending moment. * Shear force and bending moment diagram's for cantilever and semi cantilever beam. * Application of condition and semi cantilever beam.	B-6 B-5 18-02-2017 04-03-2017
15	Aircraft structure-II	781 AKSHYA B.	Loads on Aircraft. * Type of load acting on aircraft during flight condition. * Lift distribution pattern on different planform. * V-N diagram application. * Effect of gust load.	B-5 04-03-2017



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B.Tech. Semester -6

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Aircraft Design	742 SUNIL K.F. 707 MALAY	Proposing and fuel system integration. * Introduction * Propulsion selection * Jet engine integration * Proper engine integration	B-5 B-5 28-01-2017 18-03-2017
02	Aircraft Design	745 AJEET S. 710 RAHUL R.	Landing gear geometry and arrangements * Introduction * Landing gear arrangements * Tire sizing * Shocking absorbers * Casting-wheel geometry * Gear retraction geometry	B-5 B-5 28-01-2017 18-03-2017
03	Aircraft Design	747 ATHARV K	Aircraft subsystem * Hydraulics * Electrical system * Pneumatic system * Auxiliary/Emergency Power * Avionics	B-5 28-01-2017
04	Aircraft Design	749 GAURAV S.H.	Aerodynamic coefficients : * Introduction to lift and drag * Lift coefficient * Drag coefficient * Drag polar curves * Subsonic Lift-curve slope * Supersonic Lift-curve slope	B-5 28-01-2017



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B.Tech. Semester -6

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
05	Aircraft Design	765 RAHUL S.	<ul style="list-style-type: none"> <li>* Transonic Lift-curve slope</li> <li>* Non-linear lift effects</li> <li>* Maximum lift</li> </ul> Loads on flight <ul style="list-style-type: none"> <li>* Introduction</li> <li>* Loads categories</li> <li>* Air loads</li> <li>* Inertial loads</li> <li>* Power-Plant loads</li> <li>* Landing gear loads</li> </ul>	B-6 25-02-2017
06	Aircraft Design	766 HIMANSHU G.	Types of drags acting on an aircraft <ul style="list-style-type: none"> <li>* Introduction</li> <li>* Transonic drag rise</li> <li>* Skin friction drag</li> <li>* Wave drag</li> <li>* Interference drag</li> <li>* Parasite drag</li> <li>* Induced drag</li> </ul>	B-6 25-02-2017
07	Aircraft Design	778 ATUL	Airfoil selection in Aircraft design <ul style="list-style-type: none"> <li>* Introduction</li> <li>* Airfoil selection procedures</li> <li>* Airfoil geometry</li> <li>* Leading edge radius</li> <li>* Selection of chord length and camber</li> <li>* Airfoil families</li> </ul>	B-5 18-03-2017

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
08	Aircraft Design	779 SHUBHAM S.	<ul style="list-style-type: none"><li>- Early airfoils</li><li>- NACA airfoils ( 4 digit , 5 digit , 6 digit )</li><li>- Modern airfoils (Leaseman , Lieback , Super critical )</li></ul> Aircraft design process * Introduction to aircraft design * Phases of aircraft design <ul style="list-style-type: none"><li>- Conceptual design phase</li><li>- Preliminary design phase</li><li>- Detailed design phase</li></ul> * Mission profiles/ requirements for design initiation * Wing design process * Engine sizing	B-5 18-03-2017
09	Aircraft Design	739 ALI RAZA	Aircraft weight estimation * Introduction * Gross take - off weight estimation * Empty weight estimation * Fuel-fraction estimation * Fuel fraction calculation based on mission segments.	B-5 18-03-2017
10	Aircraft Design	741 RADHIKA	High lift devices * Introduction * Lift augmentation devices * Flaps and its types * Slots and its types	B-5 18-03-2017

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
11	Aircraft Design	737 PIYUSH	<ul style="list-style-type: none"> <li>* Slats and its types</li> <li>* Role and mechanism of working of high lift devices</li> <li>* Role of high lift devices during landing and take - off</li> </ul> Boundary layer formation and control <ul style="list-style-type: none"> <li>* Introduction to boundary layer</li> <li>* Boundary layer formation</li> <li>* Boundary layer thickness</li> <li>* Velocity profiles within boundary layer</li> <li>* Boundary layer separation</li> <li>* Flow reversal</li> </ul> Boundary layer control <ul style="list-style-type: none"> <li>- Boundary layer suction</li> <li>- Boundary layer blowing</li> </ul>	B-6 15-04-2017
12	Aircraft Design	738 BADRI V.	Wing planforms in aircraft design <ul style="list-style-type: none"> <li>* Introduction</li> <li>* Types of wing planforms</li> <li>* Rectangular wings</li> <li>* Elliptical wing theory</li> <li>* Tapered wings for elliptical lift distribution</li> <li>* Dihedral wings</li> <li>* Endaural wings</li> <li>* Swept back wings</li> <li>* Swept forward wings</li> <li>* Delta wings ( For high speed performances )</li> </ul>	B-6 15-04-2017



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B.Tech. Semester -6

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
13	Aircraft Design		VTOL aircraft design * Introduction * VTOL terminology * Fundamental problems of VTOL design * VTOL jet propulsion options * Vectoring nozzle types * VTOL propulsion considerations * Weight effects of VTOL * Sizing effects of VTOL	
14	Aircraft Design		Aircraft flight controls * Introduction * Aircraft Lateral , longitudinal and vertical axis * Aircraft moments - Pitching moment - Yawing moment - Rolling moment * Flight controls - Pitching moment control using elevators - Yawing moment control using rudder - Rolling moment control using ailerons	
15	Aircraft Design		Aircraft engine controls * Introduction * Basic controls and indicators - Master switch - Throttle - Propeller control	

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			<ul style="list-style-type: none"> <li>- Mixture control</li> <li>- Ignition switch</li> <li>- Tachometer</li> <li>- Manifold pressure gauge</li> <li>- Oil temperature gauge</li> <li>- Oil pressure gauge</li> <li>* Fuel               <ul style="list-style-type: none"> <li>- Fuel primer pump</li> <li>- Fuel quantity gauge</li> <li>- Fuel select valve</li> <li>- Fuel pressure gauge</li> <li>- Fuel boost pump switch</li> </ul> </li> <li>* Cowl               <ul style="list-style-type: none"> <li>- Cowl flap position control</li> <li>- Cylinder head temperature gauge</li> </ul> </li> </ul>	

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B.Tech. Semester -6

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Computational Fluid Dynamics	<del>727 ANKUR V</del> 728 MUHSINI 724 DABHI M.	History and scope of CFD * Historical perspective with arising of need and invention * Current trends and areas of implementation * Future prospects	B-6 B-5 01-04-2017
02	Computational Fluid Dynamics	<del>735 RAGHAV V</del> 725 PALIKI	Brief overview of the governing equations of fluid flow * CFD is fluid dynamics with an adjective computational * Physical principles of fluid flow * Write the complete Navier Stokes equations * Write the equations for unsteady two dimensional inviscid flow. * Some comments on the governing equations	B-5 01-04-2017
03	Computational Fluid Dynamics	723 HIMALAY	Discretization * Meaning * Requirement * Types * Differences between FDM, FVM and FEM, giving advantage and limitations.	B-5 01-04-2017
04	Computational Fluid Dynamics	729 JAY PRAKASH	Unstructured grides- scope and future * Definition, explain difference from structure grides * Areas of application * Types of discretization suitable for these * Advantage and applications areas * Future	B-5 01-04-2017



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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
05	Computational Fluid Dynamics	730 ROHIT	Numerical methods * Needs for numerical methods * Areas of applications of such methods * Relevance to computational fluid dynamics * Importance of algorithms	B-5 01-04-2017
06	Computational Fluid Dynamics	720 TAQUI	Experimental approach VS theoretical approach to fluid dynamics * Historical perspective giving meaning of the above terms * Advantage and limitations of both approaches	B-5 15-04-2017
07	Computational Fluid Dynamics	721 VIVEK G.	Physical experiment VS numerical experiments * Meaning of the terms * Pros and cons	B-5 15-04-2017
08	Computational Fluid Dynamics	722 VAISHALI	Boundary conditions and Initial conditions in CFD * Meaning * Requirements * Examples	B-5 15-04-2017
09	Computational Fluid Dynamics	711 FIROZ	Basis of finite volume methods * Advantages * Applications * Some theory	B-5 15-04-2017

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
10	Computational Fluid Dynamics	712 RAJAT	Basis of finite elements method * Some theory explaining the meaning * Applications * Advantages	B-5 01-04-2017
11	Computational Fluid Dynamics	715 NAQUI S.	Tranctation errors and consistency * Definition with examples	B-5 11-02-2017
12	Computational Fluid Dynamics	717 SAHIL S.	Maccoarmark scheme * Explanation with examples	B-5 11-02-2017
13	Computational Fluid Dynamics	719 MAUSOT	Vectrar and parallel computing * Definitions * Comparison * Areas of applications	B-5 11-02-2017
14	Computational Fluid Dynamics		Grid generation * Meaning * Methods like algebraic and PDF based * Need and applications	
15	Computational Fluid Dynamics		FDM applied to linear advnction * Conservation law * Meaning of conversion and diffusion * Derivation of convection diffusion equation	

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B.Tech. Semester -6

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar	
01	Aerodynamics-I	764 GOPAL J.	The standard Atmosphere	B-5	21-01-2017
		770 SHASHIKANT	<ul style="list-style-type: none"> <li>* International Standard Atmosphere</li> <li>* Structure of Atmosphere</li> <li>* Composition related layers</li> <li>* Temperature related layers</li> <li>* Troposphere</li> <li>* Stratosphere</li> <li>* Mesosphere</li> <li>* Thermosphere</li> <li>* Exosphere</li> <li>* Ozone layer</li> <li>* Radiation related layers</li> </ul>	B-5	21-01-2017
02	Aerodynamics-I	773 ANUJ	Altitude	B-5	21-01-2017
		774 NIKLET	<ul style="list-style-type: none"> <li>* Temperature Altitude</li> <li>* Pressure Altitude</li> <li>* Density Altitude</li> <li>* Geo-potential Altitude</li> <li>* Geometric Altitude</li> <li>* Homogenous Atmosphere</li> <li>* Hetrogenous Atmosphere</li> <li>* Lower Atmosphere</li> <li>* Middle Atmosphere</li> <li>* Upper Atmosphere</li> <li>* Physical Atmosphere</li> </ul>	B-5	21-01-2017



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B.Tech. Semester -6

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
03	Aerodynamics-I	789 DHARMENDRA	Viscous Flow <ul style="list-style-type: none"> <li>* Laminar Flow</li> <li>* Transition</li> <li>* Turbulence Flow</li> <li>* Renolds number</li> <li>* Shear stress in Laminar Flow</li> <li>* Laminar flow over flat plate</li> <li>* Newton's law of viscosity</li> <li>* Flow separation due to viscosity</li> <li>* Turbulent flow over flat plate</li> <li>* Shear stress in Laminar flow</li> </ul>	B-5 18-02-2017
04	Aerodynamics-I	790 HIMANI	Boundary Layer <ul style="list-style-type: none"> <li>* Laminar Boundary layer</li> <li>* Boundary layer thickness</li> <li>* Displacement Thickness</li> <li>* Momentum Thickness</li> <li>* Energy Thickness</li> <li>* Momentum Integral equation</li> <li>* Prandtl mixing length concept</li> <li>* Turbulent boundary layer thickness</li> <li>* Skin friction coefficient</li> <li>* Drag force calculation in Laminar boundary layer</li> <li>* Drag force calculation in turbulent boundary layer.</li> </ul>	B-5 18-02-2017

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
05	Aerodynamics-I	793 VIKASH K.	Generation of lift Basic concept * Uniform flow * Stream function & Potential function * Source & Sink flow * Stream function and potential function of source flow * Stream function and potential function of sink flow * Combination of source and sink flow (Doublet flow) * Stream function and potential function of doublet flow * Vortex flow and stream function vortex flow * Combination of uniform and doublet flow * Stream function and potential function of combine (uniform + doublet) flow	B-5 18-02-2017
06	Aerodynamics-I	799 ABHIRAMJATI	Flow over non lifting & lifting cylinder * (Uniform + Doublet) flow * Stream function and potential function * Radial velocity at radius R. * Angular velocity at radius R. * Pressure distribution over non-lifting cylinder * (Uniform + Doublet + Vortex) flow * Stream function & Potential function * Radial velocity at radius R. * Angular velocity over lifting cylinder.	B-5 18-02-2017

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07	Aerodynamics-I	751 SRIJAM S.	Generation of lift ( Joukroski Theorem) * Joukroski Circulation theory * The Kutta condition * Joukowski Transformation * Transform circle into straight line * Transform circle into symmetrical airfoil * Transform circle into cambered airfoil	B-6 04-03-2017
08	Aerodynamics-I	757 MAMYU	Thin Airfoil Theory -Flat Plate * About thin Airfoil * Thin Airfoil equation for Flat Plat * Lift coefficient * Lift slope * Moment coefficient about near by edge * Moment coefficients about generator chord point * Aerodynamic center	B-6 04-03-2017
09	Aerodynamics-I	763 JIGYAMSHU	Thin Airflow Theory for Cambered airfoil * General thin airfoil equation * Cambered thin airfoil equation * Lift coefficient * Induced angle of attack * Lift slope * Moment coefficients about generator chord point * Aerodynamic centre	B-6 04-03-2017



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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
10	Aerodynamics-I	708 AMAN DEEP	Infinite & Finite wing * Infinite wing * Lift calculation for Infinite wing * Drag calculation for Infinite wing * Moment calculation for Infinite wing * Finite wing * Lift calculation for finite wing * Drag calculation for finite wing * Induced angle of attack	B-6 25-03-2017
11	Aerodynamics-I	709 HAVEM	Lifting line theory * Down wash * Effective angle of attack * Vortex line * Vortex filament * Bond vortex * Horse shoe vortex * Lifting line * Bio-savart law * Elliptical lift Distribution	B-6 25-03-2017
12	Aerodynamics-I	718 HARDEEP	Low Speed wind Tunnel * Open circuit wind tunnel * Close circuit wind tunnel * Blow down type wind tunnel * Suction type wind tunnel * Efuerr design * Test suction design * Throat tunnel design * Diffuser design * Driving unit	B-6 25-03-2017

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13	Aerodynamics-I	727 AMKUR	High speed wind tunnel <ul style="list-style-type: none"> <li>* Blow down type wind tunnel</li> <li>* Induction type wind tunnel</li> <li>* Advantage &amp; Disadvantage of blow down wind tunnel</li> <li>* Advantage &amp; Disadvantage of Induction type wind tunnel</li> <li>* Intermittent type supersonic wind tunnel</li> <li>* Continues type supersonic wind tunnel</li> <li>* Effect of second throat in supersonic wind tunnel</li> </ul>	B-6 01-04-2017
14	Aerodynamics-I	728 MUHSIM	Flow visualization Techniques <ul style="list-style-type: none"> <li>* Smoke generator method</li> <li>* Chemical coating method</li> <li>* Interferometer method</li> <li>* Schlieren and shadow graph method</li> <li>* Hot-wire Anemometer to measure velocity</li> </ul>	B-6 01-04-2017
15	Aerodynamics-I	735 RAGHAV V.	Wind Tunnel Balance <ul style="list-style-type: none"> <li>* Basic feature of wire-type of balance</li> <li>* How to measure the Aerodynamic forces by wire-type balance</li> <li>* Basic feature of strut-type balance</li> <li>* How to measure the Aerodynamic forces by strut-type balance</li> <li>* Basic feature of platform type balance</li> <li>* How to measure the Aerodynamic forces by platform type balance</li> <li>* Basic feature of strain gauge type balance</li> <li>* How to measure the Aerodynamic forces by this method</li> </ul>	B-6 01-04-2017

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Digital Techniques	708 AMAN DEEP 709 NAVEEN KARA - PATI	The octal number system * Importance of octal system * Octal to binary conversion * Binary to octal conversion * Octal to decimal conversion * Decimal to octal conversion * Octal arithmetic * Application	B-6 14-1-2017 B-6 14-1-2017
02	Digital Techniques	718 HARDEEP	Binary codes * Verification of binary codes * BCD system * BCD addition * BCD subtraction * XS-3code * Gray code * User detecting codes * Error correcting codes	B-6 14-1-2017
03	Digital Techniques	787 RAJA K.Y.	Boolean algebra * Introduction * Logic operations - AND - OR - NOT - NAND - NOR - XOR & X-NOR * Laws of boolean algebra * Applications	B-5 25-02-2017

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
04	Digital Techniques	788 ANANTHU Y.	Karnaugh map <ul style="list-style-type: none"> <li>* Introduction</li> <li>* Basic diagram</li> <li>* 2 variable &amp; 3 variable K-Map</li> <li>* SOP expression</li> <li>* POS expression</li> <li>* Applications</li> </ul>	B-5 25-02-2017
05	Digital Techniques		Quite- Mc-cluskey method <ul style="list-style-type: none"> <li>* Introduction to the method</li> <li>* Decimal representation</li> <li>* Don't care</li> <li>* Prime implicant chart</li> <li>* The branching method</li> <li>* Applications</li> </ul>	
06	Digital Techniques		Adders <ul style="list-style-type: none"> <li>* Introduction to adders</li> <li>* Design procedure</li> <li>* The half adder</li> <li>* The full adder</li> <li>* Applications</li> </ul>	
07	Digital Technique		Subtractors <ul style="list-style-type: none"> <li>* Introduction to subtractors</li> <li>* Design procedure</li> <li>* The half subtracter</li> <li>* The full subtracter</li> <li>* Applications</li> </ul>	



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ms. Bhawna

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
08	Digital Technique		Code convertors <ul style="list-style-type: none"> <li>* Introduction</li> <li>* Design of 4 bit binary to gray code convertor</li> <li>* Design of a 4 bit binary to BCD Code converter</li> <li>* Design of 4 bit BCD to XS-3 code converter</li> <li>* Applications</li> </ul>	
09	Digital Technique		Parity Bit Generation <ul style="list-style-type: none"> <li>* Introduction</li> <li>* Parellel parity bit generator for harning codes</li> <li>* Design of or Even parety bit generator for a 4</li> <li>* Basic 2 i/p MUX</li> <li>* 4 i/p MUX</li> <li>* Applications of MUX</li> </ul>	
10	Digital Technique		Comparators <ul style="list-style-type: none"> <li>* Introduction</li> <li>* 1-Bit magnitude comparator</li> <li>* 2-Bit magnitude comparator</li> <li>* 4-Bit magnitude comparator</li> <li>* IC Comparator</li> <li>* Application</li> </ul>	
11	Digital Technique		Encoders <ul style="list-style-type: none"> <li>* Introduction</li> <li>* Block diagrams</li> <li>* Equations</li> <li>* Octal to Binary encoders</li> <li>* Decimal to BCD Encoders</li> <li>* Application</li> </ul>	

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12	Digital Technique		Decoders <ul style="list-style-type: none"> <li>* Introductions</li> <li>* 3 to 8 Decoder</li> <li>* Enable input</li> <li>* BCD To decimal decoder</li> <li>* 4 to 16 decoder</li> <li>* Decoder application</li> </ul>	
13	Digital Technique		Multiplexers <ul style="list-style-type: none"> <li>* Introduction</li> <li>* Data selectors</li> <li>* Diagrams</li> <li>* Basic 2 i/p MUX</li> <li>* 4 i/p MUX</li> <li>* Applications</li> </ul>	
14	Digital Technique		Hip Hop <ul style="list-style-type: none"> <li>* Introduction</li> <li>* Classification of sequential circuit</li> <li>* Hip-Hop operation characteristics</li> <li>* Conversion of hip hops</li> <li>* Application</li> </ul>	
15	Digital Technique		Shift Registers <ul style="list-style-type: none"> <li>* Introduction</li> <li>* Buffer Register</li> <li>* Controlled Buffer register</li> </ul>	

# School of Aeronautics (Neemrana)

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

B.Tech. Semester -6

ms. Bhawna

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
16	Digital Technique		<ul style="list-style-type: none"> <li>* SISO</li> <li>* PISO</li> <li>* SIPO</li> <li>* PIPO</li> <li>* Applications of shift registers</li> </ul> <p>Counters</p> <ul style="list-style-type: none"> <li>* Interoduction</li> <li>* Asynchronous counters</li> <li>* Design of Asynchronous counters</li> <li>* Synchronous counter</li> <li>* Design of synchronous counters</li> <li>* Applications</li> </ul>	

# School of Aeronautics (Neemrana)

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

mr. Mohapatra

B.Tech. Semester -6

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Mechanics of composite materials	794 MANISH S	Classification of composites * Introduction * Classification criteria's * Difference * Advantage/Disadvantage	B-6 11-02-2017
02	Mechanics of composite materials	796 SAURAV K	Different types of fibers * Explain different types of fibers * Their properties * Surface treatment of these fiber * Advantage /uses	B-6 11-02-2017
03	Mechanics of composite materials	804 HARSH A	Matric material * Introduction * Different types * Composition/ manufacturing * Properties * Advantage/disadvantage	B-6 11-02-2017
04	Mechanics of composite materials	731 JOEL P.	Manufacturing process 1st part * Introduction * Basic requirements of manufacturing methods * Explain - Open mould method - Continous method	B-5 25-03-2017



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

Mr. Mohapatra

B.Tech. Semester-6

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
05	Mechanics of composite materials	732 JENIFER	Manufacturing process part-II * Introduction * Explain various types of "closed mold methods in detail"	B-5 25-03-2017
06	Mechanics of composite materials	733 PRASHANT G.	Unidirectional composites * Introduction * Properties * Advantage/Disadvantage	B-5 25-03-2017
07	Mechanics of composite materials	734 SALEEM	Properties of composites part-1 * Explain the following for unidirectional composites * Volume Traction * Density * Longitudinal strength & stiffness * Factor affecting these properties	B-5 25-03-2017
08	Mechanics of composite materials		Properties of composites part-2 * Explain the following for unidirectional composites * Transverse strength & stiffness * Shear modulus & strength * Poisson's ratio	
09	Mechanics of composite materials		Orthotropic lamina/composite * Introduction * Engineering constant & its relation with stiffness coefficients. * Strength of orthotropic * Failure theories.	

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Mr. Mohapatra

B.Tech. Semester -6

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
10	Mechanics of composite materials		Laminated composites <ul style="list-style-type: none"> <li>* Analysis, Introduction</li> <li>* Lamination &amp; delamination</li> <li>* Its requirement</li> <li>* Advantages</li> <li>* Properties like stress &amp; strain</li> </ul>	
11	Mechanics of composite materials		Properties of laminates <ul style="list-style-type: none"> <li>* Explain the following regarding laminates</li> <li>* Thermal &amp; Moisture expansion</li> <li>* Mass diffusion</li> <li>* Transport properties</li> <li>* Isotropic analysis</li> </ul>	
12	Mechanics of composite materials		Short fibre composites <ul style="list-style-type: none"> <li>* Introduction</li> <li>* Explain               <ul style="list-style-type: none"> <li>- Advantage fibre</li> <li>- Stress</li> <li>- Strength</li> <li>- Short fibre</li> <li>- Stress, strength</li> <li>- Interlaminar shear</li> <li>- Fracture Toughness</li> </ul> </li> </ul>	

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B.Tech. Semester -6

Mr. Mohapatra

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
13	Mechanics of composite materials		Maintenance of composites * Classification of damage * Inspection * Repair operation * Repair procedure	
14	Mechanics of composite materials		Various structure & precautions * Type of structure - Laminate - Honey comb - Sandwich * Light protection * Painting of composites	
15	Mechanics of composite materials		Quality control, application & advantage of composite over metal & alloys	