

School of Aeronautics (Neemrana)

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

mr. vivek mainali

AME Semester-1

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Basic Aerodynamics	Apurva S. chandra (1015)	Boundary layer & control devices <ul style="list-style-type: none"> * Introduction to Boundary layer * Flow separation * Flow reversal * Boundary layer suction * Boundary layer blowing 	06-8-2016
02	Basic Aerodynamics	Mohd. Aman (1023)	Laminar & Turbulent flow over airfoils <ul style="list-style-type: none"> * Introduction to Laminar & turbulent flows * Ronald's number * Laminar & Turbulent boundary layers * Laminar sub-layer 	06-8-2016
03	Basic Aerodynamics	Gayatri Pattanaik (1040)	Forces acting on Aircraft <ul style="list-style-type: none"> * Four forces (Introduction) * Condition of equilibrium * Difficulties in balancing the four forces * For tail plane aeroplane * For tail less aeroplane 	06-8-2016
04	Basic Aerodynamics	Akash Kumar (1079)	Generation of Lift & drag on aircraft <ul style="list-style-type: none"> * Introduction * Bernoulli's theorem * Lift coefficient * Drag coefficient 	19-11-2016

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05	Basic Aerodynamics	manish Kumar Singh (1082)	<ul style="list-style-type: none"> * Lift/drag ratio curve * Stalling of airfoil Anti-icing & deicing systems <ul style="list-style-type: none"> * Introduction * Icing effects * Thermal anti-icing system * Pneumatic deicing system * Anti-icing using engine bleed air 	26-11-2016
06	Basic Aerodynamics	Apurva S. (1015)	Steady state flights performance <ul style="list-style-type: none"> * Steady level flight * Pitching moment * Variation of speed in level flight * Attitude in level flight * Effect of weight on level flight 	07-12-2016
07	Basic Aerodynamics		Glide performance of aircraft <ul style="list-style-type: none"> * Introduction * Gliding * Wrong airspeed effect of gliding * Effect of flaps on gliding * Gliding distance over ground * Effect of wind on gliding * Effect of weight on glide * Glide angle 	

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08	Basic Aerodynamics		Stall characteristics of A/C wings & vortex formation <ul style="list-style-type: none">* Lift formula & stall relationship* Effect of weight on the stall* Wing tip stalling* Methods of preventing tip stalling* Trailing edge vortices* Wing tip vortices	
09	Basic Aerodynamics		Lift Augmentation devices <ul style="list-style-type: none">* Introduction* high lift devices* Slats, slots* Flaps, types of flaps* Action of flaps* Types of slats & slots	
10	Basic Aerodynamics		Flight stability & Dynamics <ul style="list-style-type: none">* Static stability* Longitudinal stability* Lateral stability* Directional stability* Static margin & neutral point	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
11	Basic Aerodynamics		<p>Wing Planforms</p> <ul style="list-style-type: none">* Introduction to Wing* Types of wing planforms- Rectangular wing- Tapered wing- Taper ratio* Dihedral & Endaural wings* Low, mid & high wings	

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Mr. Lokesh Yadav

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	AWR	Sameer Kumar Mundya (1048)	Minimum equipment Lift (MEL) <ul style="list-style-type: none">* Introduction* Rules* Category of MEL repair items* MMEL	13-8-2016
02	AWR	P. Diksitha (1056)	Series C-1 defert reporting <ul style="list-style-type: none">* Introduction* Rules* Reporting* Defert delay* Engg. status reporting system	13-8-2016
03	AWR	Akash Kumar Sharma (1079)	D-V Fuel consumption report of piston engine <ul style="list-style-type: none">* Introduction* Rule* Reporting to RAWO	13-8-2016
04	AWR	Manish Kumar Singh (1082)	Series E-1 approved of organisation <ul style="list-style-type: none">* Introduction* Rules* Category of approval* Scope of approval	13-8-2016

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
05	AWR	Aparna S. chandra (1015)	E-VI approval of fuel handling organisation * Introduction * Rules * Approval procedure * Procedure of handling	20-8-2016
06	AWR	Mohd. Aman (1023)	E-VIII approved of AME TRG. organisation * Introduction * Accountable manager * Rules * Application forms * Scopr of approval	27-8-2016
07	AWR	Gayatri Pattanaiik (1040)	H.1 Unusable fuel * Introduction * Unusal fuel supply * Calculation of unusal fuel * Calibration of fuel guage	03-9-2016

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
08	AWR	Sameer Kumar (1048)	H.2 fuelling procedure <ul style="list-style-type: none">* Introduction* Rules* Fuelling procedure* Equipment requirement* Precautions* Requirements of RE-FUEL	10-9-2016
09	AWR	P. Dikshita (1056)	H.3 Fuel storage at airport <ul style="list-style-type: none">* Introduction* Fuel handling* Fuel sample check procedure* Barrel supply* Precautions* Approval	17-9-2016
10	AWR	Akash Kumar sharma (1079)	M-1 Modifications <ul style="list-style-type: none">* Introduction* Rules* Mandatory modifications/Inspections* Procedure* Precautions* Documentation	24-9-2016

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
11	AWR	Manish Kumar Singh (1082)	CAR-145 AMO [145.1 to A.15] <ul style="list-style-type: none">* Introduction* Purpose of CAR-145* sCOPE* Application	08-10-2016
12	AWR	Aparva S. Chandra (1015)	CAR-145 [A.42 to A.55] <ul style="list-style-type: none">* Terms of approved* Rules* Application forms* Facility requirement	22-10-2016
13	AWR	Mohd. Aman (1023)	CAR-145 [A.30 to 40] <ul style="list-style-type: none">* Introduction* Personal Requirement* Castifying staff* Equipment* Tools	29-10-2016

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
14	AWR	Samir Kumar (1048)	CAR-145 [A.42 to A.55] <ul style="list-style-type: none">* Introduction* Acceptance of components* Maintenance data* Production planning* Certification of maintenance* Records	5-11-2016
15	AWR	P. Dikshita (1056)	CAR 145[A.60 to A.95] <ul style="list-style-type: none">* Occurrence reporting* Safety & quality policy* MOE* Limitation of Organization* Validity* Findings	12-11-2016

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Electronics Fundamental		Semiconductor Physics <ul style="list-style-type: none">* Introduction* Types of Semiconductor* Concept of doping* Majority and minority carriers* Application	
02	Electronics Fundamental		Semiconductor Diodes <ul style="list-style-type: none">* Introduction* Symbol* Forward and reverse biased diode* Diodes as a switch* Applications	
03	Electronics Fundamental		Half wave rectifier <ul style="list-style-type: none">* Definition* Principle of working* Specifications* Applications	
04	Electronics Fundamental		Full wave rectifier <ul style="list-style-type: none">* Introduction* Centre tap full wave rectifier* Full wave bridge rectifier* Specifications* Applications	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
05	Electronics Fundamental		Light Emitting Diode (LED) * Introduction * Principle * Advantages and disadvantages * Applications	
06	Electronics Fundamental		Zener Diode * Introduction * Zener break down * V-I Characteristics * Applications	
07	Electronics Fundamental		Bipolar junction Transistor (BJT) * Introduction * Types of BJT * Configurations of BJT * Modes of operation * Transistor as an amplifier * Applications	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
08	Electronics Fundamental		Field effect transistor (FET) * Introduction * Types of FET * Symbols * Features of FET * Advantages and disadvantages * Applications	
09	Electronics Fundamental		Silicon controlled rectifier (SCR) * Introduction * Working of SCR * V-I Characteristics of SCR * Applications of SCR	
10	Electronics Fundamental		Feedback amplifiers * Definition * Types of feedback * Positive and negative feedback * Advantages and disadvantages * Applications	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
11	Electronics Fundamental		Oscillators <ul style="list-style-type: none">* Introduction* Principle* Types of oscillators* Limitations of oscillators* Applications	
12	Electronics Fundamental		Power amplifiers <ul style="list-style-type: none">* Introduction* Load line concept* Q-Point* Types of power amplifiers* Applications	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Human Factors		Fundamentals of Human Factors <ul style="list-style-type: none">* Definitions of H.F.* Need to take H.F. in account* Incidents attrihntable to HF* Murphy law* Examples from general life	
02	Human Factors		Fundamental of human error <ul style="list-style-type: none">* Definition of H.F.* H.E. in general life* H.E. in aviation* Application of Murphy law* Example from aviation	
03	Human Factors		Human limitations <ul style="list-style-type: none">* Vision* Hearing* Information processing* Attention* Memory	
04	Human Factors		Perception of H.E. <ul style="list-style-type: none">* Claustrophobia* Physical access* Vertigo* Normal reach of human limits	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
05	Human Factors		Psychology <ul style="list-style-type: none">* Definition of Responsibility* Individual Responsibility* Group Responsibility* Peer* Team* Individual* Pressure* Working	
06	Human Factors		Social psychology <ul style="list-style-type: none">* Motivation* Demotivation* Culture issues* Management* Organization	
07	Human Factors		Human Resource Development <ul style="list-style-type: none">* Definition of Human Resource* How to develop human resources?* Supervision* Leadership	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
08	Human Factors		Factors affecting performance <ul style="list-style-type: none">* Introduction* Fitness* Health* Stress* Domestic Pressure* Family responsibilities* Work related* Work related pressure	
09	Human Factors		Causes of performance deuteration <ul style="list-style-type: none">* Time management* Pressure due to deadlines* Work load* Underload* Sleep* Fatigue* Alcohol* Medication* Drug abuse	
10	Human Factors		Physical environment <ul style="list-style-type: none">* Definitions* Introduction* Noise* Fumes	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
11	Human Factors		<ul style="list-style-type: none"> * Illumination * Climate * Temperature * Motion * Vibration * Working environment <p>Tasks</p> <ul style="list-style-type: none"> * Introduction * Physical work * Reparative tasks * Visual suspecting * Complex systems 	
12	Human Factors		<p>Communication</p> <ul style="list-style-type: none"> * Definitions * Upward communication * Downward communication * Side ways communication * Written communication * Verily communication 	
13	Human Factors		<p>Workplace communication</p> <ul style="list-style-type: none"> * Inter and intra communication * Communication between teams * Keeping upto date * Dissemination of Information 	

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14	Human Factors		Error <ul style="list-style-type: none">* Error Models* Error Theories* Types of error in maintenance tool* Implications of errors* Incidents* Accidents* Avoiding errors* Managing errors	
15	Human Factors		Hazards in workplace <ul style="list-style-type: none">* Introduction of Hazards* Definition of Hazards* Recognizing Hazards* Avoiding Hazards* Dealing with Hazards* Dealing with Emergencies* Examples from Aviation Industry	