

School of Aeronautics (Neemrana)

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

Mr. S. Mohapatra

AME Semester -3

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Maintenance Practices-I	AKSHAY KUMAR PANDEY (842)	Remedial measures to be taken in case of fire <ul style="list-style-type: none">* Precautions for inflammable and non flammable gases* Precautions for electrical conduits* Precautions for compressor* Precaution for welding equipments	06-8-16
02	Maintenance Practices-I	KUNAL HIMMATRAO DHOTE (851)	Fire extinguishants for workshop of aviation maintenance organizations <ul style="list-style-type: none">* Methylbronide* Bromochlorodifluoro methane* Carbon dioxide* Water* Bromotrifluoromethane* Dry chemical	06-8-16
03	Maintenance Practices-I	AMIT KUMAR MANDAL (923)	Calibration of various tools and equipments <ul style="list-style-type: none">* Recommended practices* What is calibration* Option for calibration* Acceptable procedure for test equipments* Calibration interval and labelling* Procedure for variation of internal	13-8-16

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04	Maintenance Practices- I	SATYAM KUMAR THAKUR (924)	Marking and measuring tools used in aviation maintenance/ repair organization. <ul style="list-style-type: none">* Rules* Calipers* Scrubbers* Gauges* Dividers* Trammel* Bevel protectors* Punches* Angle plates* Trim square	13-8-16
05	Maintenance Practices- I	NAVEEN SINGH TANWAR (934)	Different work holding tools used in Aviation workshop <ul style="list-style-type: none">* Vices* Vee Blocks* 'C' Clamps/ 'U' Clamps	20-8-16
06	Maintenance Practices- I	SONAM VERMA (971)	Precision measurements Tools and gauges <ul style="list-style-type: none">* Micrometers* Vernier caliper* Plug gauge* Filler gauge* Slip Gauge* Radius gauge* Wire gauge	20-8-16

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07	Maintenance Practices- I	AKSHAY KUMAR PANDEY (842)	<ul style="list-style-type: none"> * Screw pitch gauge * Ring gauge * Snap gauge <p>Different projection methods and in engineering drawing</p>	27-2-16
08	Maintenance Practices- I	KUNAL HIMMATRAO DHOTE (851)	<ul style="list-style-type: none"> * Orthographic * Isometric * Oblique * Perspective * Requirement for each of projection method <p>Standard system related to aviation</p> <ul style="list-style-type: none"> * ISO 9000 * ISO 9001 * ISO 14001 * AN& MS * NAS * MIL 	27-2-16 ↑
09	Maintenance Practices- I	AMIT KR MANDAL (923)	<p>Lubrication methods and equipments</p> <ul style="list-style-type: none"> * What is lubrication * It is requirement * Methods 	3-9-16

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10	Maintenance Practices- I	SATYAM KR. THAKUR (924)	Manufacturers service bulletins/manuals <ul style="list-style-type: none">* Bulletins* Manuals* Parts catalog* Aircraft logs* Airworthiness directive.	03-9-16
11	Maintenance Practices- I	NAVJEN SINGH TANWAR(934)	Operation function & use of electrical general DC measuring Instruments <ul style="list-style-type: none">* Multimeter* Voltmeter* Ammeter	10-9-16
12	Maintenance Practices- I	SONAM VERMA (971)	Operation function & use of electrical AC measuring Instruments <ul style="list-style-type: none">* Frequency meter* Voltmeter* Ammeter	10-9-16

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13	Maintenance Practices-I	AKSHAY KUMAR PANDEY (842)	Operation, function and use of Avionic general test equipment. <ul style="list-style-type: none">* Multimeter* Insulation tester (megger)* Boneling tester* Clamp meter	17-9-16
14	Maintenance Practices-I	KUNAL HIMMATRAO DHOTE (851)	Types of engineering Drawing <ul style="list-style-type: none">* Production drawing* Assembly drawing* Installation drawing* Geometrical drawing* Letter writing	17-9-16
15	Maintenance Practices-I	AMIT KUMAR MANDAL (923)	Types of projection <ul style="list-style-type: none">* Orthographic projection* Isometric projection* Oblique projection* First angle* Third angle	26.11.16

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Mr. ANKIT

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Materials and Hardware	SATYAM KUMAR THAKUR (924)	* Explain about the heat treatment performed on ferrous metals	24-9-2016
02	Materials and Hardware	NAVEEN SINGH TANWAR (934)	* How the lensite test is performed on a ferrous metal specimen.	24-9-2016
03	Materials and Hardware	SONAM VERMA (971)	* Explain about the types of corrosion and their causes.	08-10-2016
04	Materials and Hardware	AKSHAY KUMAR PANDEY (842)	* How anodizing is done on aluminium gallery to protect it from corrosion.	08-10-2016
05	Materials and Hardware	KUNAL HIMMATRAO DHOTE (851)	* Explain about the Dye-penetrant method of crack detection.	03-12-2016
06	Materials and Hardware	AMIT KUMAR MANDAL (923)	Classification of fasteners and their application * Turnlock fasteners * Dzus fasteners * Airlock fasteners * Camlock fasteners	03-12-2016

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
07	Materials and Hardware		Screw threads <ul style="list-style-type: none">* Classification of various threads* Threads forms* Terminology* Specifications	
08	Materials and Hardware		Measuring screw threads <ul style="list-style-type: none">* Aircraft bolts* Bolt typer, specification and identification* Special bolt	
09	Materials and Hardware		Important aspects of threads <ul style="list-style-type: none">* Limits & tolerances of threads* Effect of pitch & flank angle errors* Classes of fit* Plated threads	
10	Materials and Hardware		Threads gauges <ul style="list-style-type: none">* General gauges* References gauges* "Go" gauges* "Not go" gauges	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
11	Materials and Hardware		<ul style="list-style-type: none">* Accuracy of gauges* Setting plugs Aircraft nuts <ul style="list-style-type: none">* Non self-locking nuts* Self-locking nuts* Types of nuts* Shear castle nut	
12	Materials and Hardware		Aircraft screws <ul style="list-style-type: none">* Structural screws* Self tapping screws* Drive screws* Flat head screws* Washer head screws* Headless screws	
13	Materials and Hardware		Different types of struts & their uses <ul style="list-style-type: none">* Standard struts* Material & size* Waisted struts* Stepped struts* Shouldered struts	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
14	Materials and Hardware		* Classification * Fitting of struts Self-tapping screw & dowels * Dowels	
15	Materials and Hardware		Locking devices * Aircraft washers * Plain washers * Special washers * Spring washers * Taper pin washers * Star lock washers as shake proof washers	

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Mr. Raviraj Srikrishna

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	DTEIS-II	Satyam Kumar Thakur (924)	Light emitting diode <ul style="list-style-type: none">* Introduction* Principle and construction* Operation and advantages	22-10-2016
02	DTEIS-II	Naveen Singh Tanwar (934)	Liquid crystal diode <ul style="list-style-type: none">* Introduction* Construction of LCD* Types of LCD* Uses of LCD	22-10-2016
03	DTEIS-II	Sonam Verma (97)	Cathode Ray Tube <ul style="list-style-type: none">* Introduction* Block diagram of CRT* Main parts of CRT* Application of CRT	29-10-2016
04	DTEIS-II	Akshay Kumar Pandey (842)	Fiber optic transmission <ul style="list-style-type: none">* Introduction* Advantages of fiber optics* Disadvantages of fiber optics* Fiber characteristics and classification	29-10-2016

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05	DTEIS-II	Kunal Himmatrao Dohre (851)	Fiber optic component and system <ul style="list-style-type: none"> * Source * Noise * Response time * Optical link * System 	05-11-16
06	DTEIS-II	Amit Kumar Thakur (924)	Couplers <ul style="list-style-type: none"> * Introduction * Fused tapered * Splitting * Reflective star * Control terminals * Remote terminals 	05-11-16
07	DTEIS-II	Naveen Singh Tanwar (934)	Engine indicating and crew alerting system (EICAS) <ul style="list-style-type: none"> * Introduction of EICAS * Components computer left -right center <ul style="list-style-type: none"> - Display unit - Upper display unit - Lower display unit 	19-11-16

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
08	DTEIS-II	Senam Verma (971)	<ul style="list-style-type: none"> * Colors generated and its display function <ul style="list-style-type: none"> * White * Red * Green * Blue * Yellow * Margeta * Cyan * Display mode <ul style="list-style-type: none"> - Operation mode - Status mode - Maintenance mode (maintenance control panel) * Alert message <ul style="list-style-type: none"> - Level A - Level B - level C * Failure display <ul style="list-style-type: none"> - Display select panel failure - Stand by engine indicator <p>ECAM</p> <ul style="list-style-type: none"> * Introduction * Components of ECAM * Display units (Functioning) <ul style="list-style-type: none"> - LH Displays unit - RH Displays unit <p>LV power supply HV power supply Digital Line</p>	19-11-2016

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09	DTEIS-II	Akshay Kumar Pandey	<ul style="list-style-type: none"> * Symbol generator and Computer <ul style="list-style-type: none"> - Input/output processor - Main processor - Main RAM - Main PROM - Displays Controller - Displays Sequencer - Stroke Generator - Raster Generator - Displays * ECAM Control Panel * Warning light display unit * Aural warning unit * Display Models <ul style="list-style-type: none"> - Flight phase related mode - Advisory mode - Failure mode - Manual mode <p>Fundamental of system layout</p> <ul style="list-style-type: none"> * Suitable location * proper visibility * Correct angle of observation * Grouping of instruments * Types of display * Qualitative of display * qualitative of display * Director display * colored display 	

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10	DTEIS-II	Kunal Himmatrao Dhoke (851)	Flight management system * Introduction of FMS * Components of FMS - Flight management computer control and display unit Bubble memory mos RAM UV-PROM data loader - EPR indicator much airspeed indicator mode annunciator Interfacing indicator * Mode of operation - Take off mode - Climb mode - Craze mode - Descend mode - Hold mode - Go around mode - Turbulence mode	
11	DTEIS-II		Electromagnetic Compatibility (EMC) * Introduction	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
12	DTEIS-II		<ul style="list-style-type: none">* Principle of EMC* Influence of EMC on electronic system* Applications Electromagnetic Interference (EMI)	
13	DTEIS-II		<ul style="list-style-type: none">* Introduction* Principle of EMI* Influence of EMC on electronic system* Methods to remove EMI* Applications Electrostatic sensitive devices (ESD)	
14	DTEIS-II		<ul style="list-style-type: none">* Introduction* Different Types of ESD* Handling of ESD Components* Applications of ESD Fly-By-Wire system	
			<ul style="list-style-type: none">* Introduction* Architecture* Control laws* Pitch control* Control Interceptor* Applications	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
15	DTEIS-II		Global Positioning system (GPS) * Introduction * Space segment * Control segment * User segment * Applications	