


School of Aeronautics (Neemrana)

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

Mr. Souvik

B-15, 16, 17



B.Tech. Semester -3

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Manufacturing Processes	Reg. no. 1377 RAKSHIT SAINI MT-4	Importance of Manufacturing * * Economic definition of manufacturing * Technological definition of manufacturing * Survey of manufacturing process	24/8/2019 
02	Manufacturing Processes	Reg. no. 1409 VASIM AALAM MT-4	Foundry Technology * * Pattern practices * Types of patterns * Allowances & materials * Moulding sand * Sand testing	31/8/2019
03	Manufacturing Processes	Reg. no. 1408 VATSVA RAWAT MT-4	Moulding practices * * Green moulding * Dry and loam moulding * Pit and floor moulding * Permanent moulding * Carbon dioxide moulding	07/9/2019
04	Manufacturing Processes	Reg. no. 1450 SUMIT BHOWMICK MT-4	Casting practices * * Fundamental of metal casting * Types of casting * Casting alloys * Casting defects * Design of casting	19/09/2019

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
05	Manufacturing Processes	Reg. no. 1475 DEEPAK ALWAR MT-4	Metal joining process * Introduction * Types of joints * Soldering * Brazing * Adhesive bonding	21/9/2019 
06	Manufacturing Processes	Reg. no. 1377 RAKSHIT SAMI MT-4	Welding joint * Principle of welding * Classification of welding * Types of welding - Arc welding - Gas welding - Resistance welding	20/9/2019 
07	Manufacturing Processes	Reg. no. 1409 VASIM AALAM MT-4	Different welding process * Atomic hydrazone * Ultrasonic * Plasma and laser * Electron beam * Explosive welding	20/9/2019

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Mr. RAHUL

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Mechanics of Solid	Reg. No. 1361 MOHITACHARYA B-15	Simple Stress and Strain * Types of stress and strain * Explain thermal stress * Shearing stress and strain * Linear Elasticity	24/8/2019 
02	Mechanics of Solid	Reg. No. 1363 ANURAG PARASHAR B-15	Stress Strain Variation * Hooks law for isotropic material * Yield points * Ultimate and breaking stress * Factor of safety * Poison ratio * Equation of equilibrium (static)	24/8/2019
03	Mechanics of Solid	Reg. No. 1366 N. GARGNEZER B-15	Free body diagram * Calculation of stress in single solid bar * Calculation of stress in multi stepped bar * Free body diagram for composite bars.	24/8/2019
04	Mechanics of Solid	Reg. No. 1457 JAYAN RANJAN B-16	Principle stress and strain * Stress on undenied plane * Normal stress calculation * Principle plane angle calculation * Difference b/w principal and normal stress	31/8/2019

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
05	Mechanics of Solid	Reg. No. 1458 MUKESH GUPTA B-16	Combined loading * Tension and compression stress calculation * Principle stress and strain * Stress and strain transfer nation concept equivalent bending and twisting motion	31/8/2019
06	Mechanics of Solid	Reg. No. 1468 VALVI SANJAY B-16	Theory of failure * Principle stress theory * Shear stress theory * Shear strain theory * Von misses theory * Strain energy theory	31/8/2019
07	Mechanics of Solid	Reg. No. 1362 SHAM BHAVI SHANDILYA B-17	Shear force and bending moment diagram * Types of beam * Types of lateral load * Types of support * Equilibrium condition * Relation b/w shear forces and bending moment	07/9/2019
08	Mechanics of Solid	Reg. No. 1365 ISHITA GARI B-17	Static load diagram analysis * Cantilever with point local * Cantilever with uniformly distributed local * Simply supported beam with point load * Simply support beam with U.D.L	07/09/2019

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
09	Mechanics of Solid	Reg. No. 1367 ASHISH UPADHYAY B-17	Analysis of moving load diagram * Members subjected to flexural load * Theory of simple bending * Moving load concentration * Load distribution pattern	07/09/2019
10	Mechanics of Solid	Reg. No. 1389 SONALI JADON B-15	Bending stress * Equation of bending * Bending stress calculation for I section * Bending stress calculation for T section * Bending stress calculation for Z section	14/09/2019 Sonal
11	Mechanics of Solid	Reg. No. 1393 MEERANSHI SHARMA B-15	Shear stress * Shear stress equation * Vacation of shear stress * Shear stress analysis for I section * Shear stress analysis for T section	14/09/2019
12	Mechanics of Solid	Reg. No. 1396 JAYESH BARI B-15	Strain energy calculation * Strain energy in bending * Strain energy in Torsion * Strain energy in shear * Strain energy in Torsion * Strain energy in Compression	14/09/2019

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
13	Mechanics of Solid	Reg. No. 1446 NEERAJ MEENA B-16 Reg. No. 1388 PARTH B-17 Reg. No. 1447 B-17	<ul style="list-style-type: none"> * Torsion in shaft * Torsion equation * Variation torsion with twisting angle * Torsion in solid & hollow shaft * Power transmission equation 	28/09/2019 28/09/2019 28/09/2019
14	Mechanics of Solid	PRAMOD BHARD- -WAS B-16 Reg. No. 1391 MANISH B-17 Reg. No. 1456 B-17	<ul style="list-style-type: none"> * Column and struts * Types of column * Fixities condition of column * Crippling and buckling load * Euler formulae * Equivalent length 	28/09/2019 28/09/2019 28/09/2019
15	Mechanics of Solid	VISHRUT JAIN B-16 Reg. No. 1344 NITISH KUMAR B-17	<ul style="list-style-type: none"> * Buckling stress calculation * Buckling stress for both and pin condition * Buckling stress for one end pin other fixed * Buckling stress for both and fixed * Buckling stress for acentric loading (Rankine formula) 	28/09/2019 28/09/2019 28/09/2019

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Thermodynamics	Reg. no. 1446 NIGRAJ MEENA B-16 Reg. no. 1415 SUVAYAN B-15	Thermodynamics system * Meaning of system * Types of systems * Basic concepts (Definitions understanding) * Control volume, states, cycle, process etc.	24/8/2019 28/09/2019
02	Thermodynamics	Reg. no. 1447 PRAMOD BHARDWAJ B-16 Reg. no. 1419 SARINA B-15	1st law of Thermodynamics * Heat & work concept * Law of conservation * Understanding of 1st law along with definition or equation	24/8/2019 28/09/2019
03	Thermodynamics	Reg. no. 1456 VISHRUT TAINI B-16	2nd law of Thermodynamics * Definition of Law and equations * Different statements (Kelvin-plank, clauses) * Relation with 1st law * Operation in daily life	24/8/2019
04	Thermodynamics	Reg. no. 1356 KULDEEP SHARMA B-17	Heat Engine V/S Heat pump * Definition along with block diagrams * Difference BW the working principle of both * Example from day to day life	31/8/2019

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
05	Thermodynamics	Reg.No. 1358 KSHITIS GAANDHI B-17	<p>Law of perfect gas</p> <ul style="list-style-type: none"> * Law supporting a perfect Gas * Equations for perfect Gas * Difference b/w perfect Gas, Ideal Gas and other Gases * Ideal Gas equation of states 	31/8/2019
06	Thermodynamics	Reg.No. 1360 AAYUSH BHATI B-17	<p>Pure substance & Equilibrium</p> <ul style="list-style-type: none"> * P-V, T-S Diagrams * What do you mean by pure substance & Equilibrium * How to attain Equilibrium * Vapur-liquid-solid phase equilibrium (Explain) 	31/8/2019
07	Thermodynamics	Reg.No. 1378 PRAYAL CHATTERJEE B-15	<p>Energy v/s Energy</p> <ul style="list-style-type: none"> * What do you mean by Energy and Energy * Difference between these two * Available and unavailable energy 	07/9/2019
08	Thermodynamics	Reg.No. 1382 SORAV KUMAR B-15	<p>Mathematics relations of Thermodynamics</p> <ul style="list-style-type: none"> * Explain different type of relation - Maxwell Relation - Tds Relations - Chaperon Relation * Their importance and need in Thermodynamics 	07/9/2019 Sourav Kumar

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
09	Thermodynamics	Reg. no. 1387 MOHILLI YESHWANTH B-15	Different types of flow * Explain different types of flow, associated with thermodynamics * Their properties, difference b/w them (steady flow, non-steady flow)	07/9/2019 <i>N. Mohill</i>
10	Thermodynamics	Reg. no. 1411 BADAIDE BABARSAHEB B-16	Different types of cycle (part-1) * Explain the different cycle with (p-v, t-s diagram) * Brayton cycle * Stirling cycle * Arccosine cycle	14/9/2019
11	Thermodynamics	Reg. no. 1428 SAKSHARAM CHOUDHAN B-16	Different types of cycle (part-II) * Explain different cycle with (p-v, t-s diagram) * Otto cycle * Diesel cycle * Atkinson cycle	14/9/2019
12	Thermodynamics	Reg. no. 1433 SUISHANK MATURKING B-16	IC Engine v/s EC Engine * Definition of IC & EC Engine * Different between them * Uses * Properties	14/9/2019

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
13	Thermodynamics	Reg. No. 1376 MOHAMMID ATIEK KHAN B-17	Two stroke v/s four stroke engine * Meaning of two stroke & four stroke * Difference * Properties * Advantage & Disadvantages	21/9/2019
14	Thermodynamics	Reg. No. 1379 MAN PRIT SINGH B-17	Patrol v/s Diesel Engine * Meaning of Patrol & Diesel Engine (two & four stroke) * Working principle * Advantage & Disadvantage * Performance & capacity	21/9/2019 Mohan Prith Singh
15	Thermodynamics	Reg. No. 1383 MARV PAKA B-17	Refrigeration cycle * Explanation or working principle * Explanation of figure, p-v, t-s, h-s graphs * Performance & capacity	21/9/2019
16	Thermodynamics	Reg. No. 1413 VIPIN JAISWAL B-15	Reheat cycle * What do you mean by Reheat cycle * Working Principle * Figure, graphs, Explanation * Advantages and Disadvantage over other cycles	28/9/2019 vipin

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MR. PANICAJ

B.Tech. Semester-3

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Advanced Engineering Mathematics	Reg.No. 1350 MANJEET B-17 Reg.No. 1457 JAYAN PATEHAL B-16	Laplace Transform * Introduction * Definition * Linearity property * Laplace Transform of some elementary function * Transform of discontinuous function * First shifting property * Heaves ides's shifting theorem * Change of scale property	24/8/2019 28/09/2019
02	Advanced Engineering Mathematics	Reg.No. 1352 RAUNAQ MEHROTRA B-17 Reg.No. 1458 MUKESH GUPTA	Inverse Laplace transform * Definition * Linearity property * First shifting property * Second shifting property * Change of scale property * Use of partial fractions in L-T * Inverse Laplace transform of derivative * Multiplication by p * Division by p * Convolution theorem * Statement * Application of Laplace transformation to solve differential equations	24/8/2019 28/09/2019

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
03	Advanced Engineering Mathematics	Reg. no. 1354 SYED B-17	Fourier series * Introduction * Periodic functions * Even and odd function * Euler's formulae * Directly's condition * Fourier series for discontinuous functions * Change of Interval * Half range series * Harmonic analysis - Introduction - Application of harmonic analysis	24/8/2019 28/09/2019
04	Advanced Engineering Mathematics	Reg. no. 1368 KIRUBESH S B-15	Partial differential equation and its application * Introduction * Order and degree of differential equation * Solution of partial differential equation * Formation of partial differential equation * Application of partial differential equations - Introduction - Method of separation of variables.	31/8/2019 8/10/2019

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
05	Advanced Engineering Mathematics	Reg.No. 1373 ADARSH KUMAR B-15	Introduction of one dimensional wave and heat equation * Introduction * Solution of the wave equation * Apply initial and boundary conditions * Introduction one dimensional heat flow * Solution of the heat equation * Apply initial and boundary conditions	31/8/2019 Adarsh.kumar
06	Advanced Engineering Mathematics	Reg.No. 1375 RISHABH MISHRA B-15	Introduction of Laplace equation * Introduction of Laplace equation * Potential theory * Harmonic functions * Definition of rectangular boundaries and circular boundaries * Solution of Laplace equation * Solution of Laplace's equation in Two-dimensional Cartesian form * Solution of Laplace's equation in polar coordinators * Application of Laplace equation in physics and engineering	31/8/2019

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
07	Advanced Engineering Mathematics	Reg. No. 1340 ADARSH SHRIVASTAVA B-16	<ul style="list-style-type: none"> - Introduction of series solution and special functions - * Introduction - * Definition - Power series - Analytic function - Ordinary point - Regular and Irregular singular points - * Introduction of important differential equations - Bessel's differential equation - Solution of Bessel's equation - Series representation of Bessel functions - Recurrence relations for $J_n(x)$ - Generating functions for $J_n(x)$ - Integral form of Bessel's function - * Equations reducible to Bessel's equation - * Modified Bessel's equations - * Orthogonality Bessel's functions 	07/09/2019
08	Advanced Engineering Mathematics	Reg. No. 1478 Sumit PRAMANIK B-16	<ul style="list-style-type: none"> - Introduction of Legendry's function - * Definition - * Solution of Legendre's differential equation - * Legendry's function of first kind - * Generation function for $P_n(x)$ - * Discussion of recurrence relations - * Orthogonality of Legendry polynomials 	07/09/2019

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
09	Advanced Engineering Mathematics	Reg.No. 1364 MD ALAM B-16	<ul style="list-style-type: none"> * Introduction of Redirect's formula * Definition * Using Rodrigue's formula to get Legendre's polynomials * Orthogonality of Rodrigue's * Recurrence relations * Beltram's result 	07/9/2019
10	Advanced Engineering Mathematics	Reg.No. 1369 ANUBHAV KASHYAP B-17	<ul style="list-style-type: none"> * Introduction of solution of Nonlinear equations * Introduction * Introduction Bisection Method * Method of false position * Convergence of regula-falsi method * Introduction of Newton-Raphson method * Convergence * Order of convergence * Geometrical interpretation 	14/9/2019
11	Advanced Engineering Mathematics	Reg.No. 1371 RAJU SHARMA B-17	<ul style="list-style-type: none"> * Introduction of Numerical Analysis (Interpolation) * Introduction of Interpolation * Assumptions for Interpolation * Finite differences - Forward differences table - Backward differences table - Central differences table - Other differences table (a)- Shift Operator (b) Averaging Operator 	14/9/2019

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
12	Advanced Engineering Mathematics	Reg. No. 1374 ASHISH MISHRA B-17	<ul style="list-style-type: none"> * Introduction of Newton's formulae for Interpolation * Newton's Gregory forward Interpolation formula * Newton's Gregory backward Interpolation formula * Interpolation by unevenly spaced points - Lagrange's Interpolation formula - Newton's divided difference Interpolation formula. 	14/9/2019 Ashish
13	Advanced Engineering Mathematics	Reg. No. 1398 MILAN TOM B-15	<ul style="list-style-type: none"> * Introduction of numerical solution of simultaneous algebraic equation. * Introduction * Types of method to solve such kind of equation - Direct methods--Triangularization method - Interactive methods--Causes-side iterative method. 	21/9/2019 
14	Advanced Engineering Mathematics	Reg. No. 1405 GANITARYA SAEN B-15	<ul style="list-style-type: none"> * Introduction to numerical differentiation and Integration. * Numerical differentiation - Newton's forward difference Interpolation formula. - Newton's backward difference Interpolation formula. 	21/9/2019 Ganit

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
15	Advanced Engineering Mathematics	Reg. No. 1410 RIIICO B-15	<ul style="list-style-type: none">- Stirling central difference Interpolation formula* Numerical Integration- Newton's-cote's Quadrature formula- Trapezoidal rule (n=1)- Simpson's one-third rule (n=2)- Simpson's three-Eight rule (n=3) <p>Introduction to ordinary differential equations</p> <ul style="list-style-type: none">* Introduction* Initial value and boundary value problems* Single step and multistep methods.* Numerical methods of solution of O.D.E.- Picard's method of successive approximations- Euler's method- Improved Euler's method- Modified Euler's method- Fourth-order Runge-Kutta method	21/9/2019 RIIICO