

School of Aeronautics (Neemrana)

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

B.Tech. Semester -2

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Engineering Mechanics		Statics of particles and Rigid bodies <ul style="list-style-type: none">* Application of law of Mechanics* Resolution of force, moments and couples* Various type of system of forces	
02	Engineering Mechanics		Varignon's and Lamis Theorem <ul style="list-style-type: none">* Application of Varignon's and Lames theorem* Free body diagram of bodies under equilibrium.* Condition of equilibrium.	
03	Engineering Mechanics		Virtual work <ul style="list-style-type: none">* Concept of virtual work in Mechanical work.* Calculation of Active force diagram* Calculation of deflection on various beam using virtual work.	
04	Engineering Mechanics		Centroid and moment of inertia <ul style="list-style-type: none">* Concept of centroid and centre of gravity* Moment of inertia using parallel axis theorem* Moment of inertia using perpendicular axis theorem* Radius of Gyration	
05	Engineering Mechanics		Calculation of Centroid and moment of inertia <ul style="list-style-type: none">* Calculation for I - Section.* Calculation for T - Section.* Calculation for L - Section	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
06	Engineering Mechanics		Lifting Machines <ul style="list-style-type: none">* Fundamental of lifting Machines.* Reversibility of Machine.* Law of Machines.	
07	Engineering Mechanics		System of Pulley's <ul style="list-style-type: none">* Simple wheel and axis* Wheel and differential axis* Weston's different pulley	
08	Engineering Mechanics		Application of lifting Machine <ul style="list-style-type: none">* To increase velocity ratio* To improve efficiency* To decrease the load and effort	
09	Engineering Mechanics		Friction <ul style="list-style-type: none">* Various types of Friction* Advantage and disadvantage of friction* Application of friction on Aircraft tyres	
10	Engineering Mechanics		Friction on Loader and wedge <ul style="list-style-type: none">* Variation of friction on ladder.* Load and angle of friction on Ladder* Friction on wedge shape surface	
11	Engineering Mechanics		Belt drive <ul style="list-style-type: none">* Various type of belt drive.* Method to increase velocity ratio* Effect of slip on velocity ratio.	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
12	Engineering Mechanics		Power transmission by belt drives <ul style="list-style-type: none">* Ratio of tensions and power by flat belt drives* Ratio of tensions and power by V belt drives.	
13	Engineering Mechanics		Kinematics of particles and Rigid bodies <ul style="list-style-type: none">* Type of motion* Rectangular components of velocity acceleration.* Difference between angular and transverse velocity and acceleration.	
14	Engineering Mechanics		Law of Motion <ul style="list-style-type: none">* Application of newton's law of motion.* Equation of motion in rectangular coordinate.* D alembert's principle application	
15	Engineering Mechanics		Work energy and power <ul style="list-style-type: none">* Work due to force, weight and spring.* Principle of work and energy.* Power calculation for lifting and rolling weights.	
16	Engineering Mechanics		Impulse and momentum <ul style="list-style-type: none">* Principle of liner impulse and momentum.* Principle of angular momentum and impulse.* Conservation of angular momentum.	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Engineering Chemistry-II		Types of hardness in water <ul style="list-style-type: none">* Pneuament* Formula to describe both.* Temperature* Units in terms of which it can be explained.	
02	Engineering Chemistry-II		Galvanic cell <ul style="list-style-type: none">* Construction.* Working* Application	
03	Engineering Chemistry-II		Preventive measures of corrosion <ul style="list-style-type: none">* Arodic* Cathodic protection	
04	Engineering Chemistry-II		Electroplating with uses. <ul style="list-style-type: none">* Definition* Types of electroplating.* Role of applications	
05	Engineering Chemistry-II		Units of hardness with EDTA method <ul style="list-style-type: none">* Description of all units of hardness like p.p.m. Clark, french degree of hardness with their formula and relationships.* Explain hardness causing substance along wild.	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
06	Engineering chemistry-II		Lime Soda method to remove hardness in water. <ul style="list-style-type: none">* All Rexes of Lime soda.* Method to Explain removed of hardness i.e. cold lime soda & hot lime soda method.	
07	Engineering chemistry-II		Acclivity and types of acclivity in water <ul style="list-style-type: none">* Definition of acclivity.* Acclivity causing Ionic combination.* Calculation for detection of acclivity in water.	
08	Engineering chemistry-II		Zeolite method & reverse osmosis. <ul style="list-style-type: none">* Introduction* Diagrammatic Explanation* Advantages & Disadvantages.	
09	Engineering chemistry-II		Ion exchange method and mixed bed-demineralization. <ul style="list-style-type: none">* Meaning of Ion exchange.* Explanation of Technique with diagram.* Advantage and disadvantage.	
10	Engineering chemistry-II		Electro dialysis <ul style="list-style-type: none">* Electro dialysis mean removed of salts/hardness of water by electricity. (Explanation) of technique to carry out the process.)* Advantages / Disadvantages.	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
11	Engineering chemistry-II		Boiler corrosion / caustic embroilment * Boiler corrosion causes. * Prevention measures. * Advantages / Disadvantages.	
12	Engineering chemistry-II		Ecosystem : Explanation for all types of ecosystem * Pond * Desert * Water * Land	
13	Engineering chemistry-II		Electrochemical cell * Principle * Construction * Working * Applications	
14	Engineering chemistry-II		Bio diversity/ Population dynamics * Basic Introduction * Formula for calculation * Explain with graph. * Utility	
15	Engineering chemistry-II		Renewable sources of energy * Sources * Applications * How they can be renewed.	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
16	Engineering chemistry-II		Air pollution/hardness effects of air pollution causes * Preventive measures * Hazards	
17	Engineering chemistry-II		Global warning * Introductions * Causes Hazards * Preventive measures	
18	Engineering chemistry-II		Cause and prevention of noise corrosion. Acid rain hazardous effects and precautions. Classification of solid waste with treatment. Solid waste management	
19	Engineering chemistry-I		Rain water harvesting * Rain water harvesting technique for different methods. * Utility of R.W.H.	
20	Engineering chemistry-II		Mechanism of Electrochemical and dry corrosion with factors. * Causes of dry corrosion/Elect corrosion * Corrosion causing factors.	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
21	Engineering Chemistry-II		Control of air/noise pollution. * Air pollution * Effective of pollution inhuman beings/moments building etc. * Preventive measures.	
22	Engineering chemistry-II		Corrosion causes * Corrosion causes * Factors affecting corrosion * Preventive measures.	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Communication Technique		Prepare a seminar on Elements of Communication. <ul style="list-style-type: none">* Meaning of Communication* Importance of Communication* Process of Communication* Objectives of Communication* Media of Communication	
02	Communication Technique		Prepare a seminar on Components of Communication Process. <ul style="list-style-type: none">* Sender* Message* Channel* Receiver* Feedback* Communication cycle* Receiving suggestions* Persuading people	
03	Communication Technique		Prepare a seminar on Media & Types of Communication <ul style="list-style-type: none">* Interpersonal Communication* Intrapersonal Communication* Group Communication* Public Communication	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
04	Communication Technique		Prepare a seminar on Verbal Communication <ul style="list-style-type: none">* Verbal Communication* Oral Communication* Effective oral communication* Advantages of Oral communication* Disadvantages of Oral communication* Written Communication* Advantages of Written Communication* Disadvantages of Written Communication	
05	Communication Technique		Prepare a seminar on Non – Verbal Communication <ul style="list-style-type: none">* Non – verbal communication* Functions of Non – verbal communication* Proxemics* Kinesics* Chronicles* Para language* Elements of Para language* Artifacts	
06	Communication Technique		Prepare a seminar on Formal & Informal Channels of Communication <ul style="list-style-type: none">* Channels of Communication* Formal Communication* Characteristics of Formal Communication* Advantages of Formal Communication* Limitations of Formal Communication	

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07	Communication Technique		<ul style="list-style-type: none">* Informal Communication* Advantages of Informal Communication* Limitations of Informal Communication* Comparison between Formal & Informal communication <p>Prepare a seminar on Barriers to Communication</p> <ul style="list-style-type: none">* Barriers to Communication* Sender oriented barriers* Overcoming Sender oriented barriers* Receiver oriented barriers* Causative factors for Receiver oriented barriersRemedies for Receiver oriented barriers	
08	Communication Technique		<p>Prepare a seminar on Professional Communication</p> <ul style="list-style-type: none">* Conceptualizing Professional Communication* Levels of Professional Communication* Downward channels of Communication* Essentials of effective downward communication* Limitations* Upward channel of communication* Problems* Effective upward communication* Horizontal channels of communication* Effective horizontal communication	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
09	Communication Technique		Prepare a seminar on Types of Professional Communication * Written communication * Types of Written communication * Oral communication * Types of Oral communication * Graphic communication * Types of Graphic communication	
10	Communication Technique		Prepare a seminar on Interpersonal Communication & methods to improve it * Meaning of Interpersonal communication * Principle & Characteristics * Functions of Interpersonal Communication * Components of Interpersonal communication * Direct of interpersonal communication * Mediated interpersonal communication * Conflict & communication * Conflict management * Effective interpersonal communication	
11	Communication Technique		Prepare a seminar on Subject – Verb agreement * Understanding subject – verb agreement * Use of BUT * Connective words & phrases * Steps for editing sentences * Subject & Verb * Clausal Subject * Kinds of Subjects * Other types of Concord * Recapitulation	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
12	Communication Technique		Prepare a seminar on Linking Words <ul style="list-style-type: none">* Meaning of Linking words* Function of Linking words* Co –ordinating Conjunctions* Kinds of sub –ordinating conjunctions* Co- relative conjunctions* Transitional words & phrases	
13	Communication Technique		Prepare a seminar on Relative Clauses <ul style="list-style-type: none">* Meaning of Relative clauses* Kinds of Subordinate clauses* Defining Relative clauses* Non- defining Relative clauses* Common mistakes* Recapitulation	
14	Communication Technique		Prepare a seminar on Resume Writing <ul style="list-style-type: none">* Resume* Purpose of making Resume* Difference between Curriculum Vitae & Resume* Resume format* How to make your resume strong & positive* List of Managerial, Formal, Transferable Skills* Resume writing checklist* Words used in Resume Writing* Do's & Don'ts	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
15	Communication Technique		Prepare a seminar on Business Letter Writing <ul style="list-style-type: none">* Business correspondence* Types of letter* Personal or Social letters* Official letter* Business letters* Letter of enquiry* Letter of Complaint* Letter of Credit* General guidelines for effective business letter	
16	Communication Technique		Prepare a seminar on Types of Communication barriers <ul style="list-style-type: none">* Environmental barriers* Language barriers* Psychological barriers* Physical barriers* Barriers attributable to the caller* Barriers attributable to the receiver* Conclusion	
17	Communication Technique		Prepare a seminar on Job Application Letter <ul style="list-style-type: none">* Solicited Job application letter* Unsolicited Job application letter* Effective Job application letter* Writing Covering letter* Do's & Don'ts of Job application letter* Samples	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Engineering Physics-II		Compton Effect <ul style="list-style-type: none">* Statement and Theory* Compton Wavelength* Direction of Recoil Electron* Kinetic Energy of Recoil Electron* Frequency and Energy of Scattered Radiation	
02	Engineering Physics-II		Schrodinger's Wave Equation <ul style="list-style-type: none">* Wave Function* Time Dependent Wave Equation* Time Independent Wave Equation* Significance of Wave Equations* Physical Interpretation of Wave Function	
03	Engineering Physics-II		Particle in one dimensional Box <ul style="list-style-type: none">* Normalization Condition* Boundary Value Problem* Eigen Value and Eigen Function* Energy Levels for one dimensional Box	
04	Engineering Physics-II		Application of Schrodinger's Wave Equation <ul style="list-style-type: none">* A Review of Dimensional Problem* Free Particle in Three Dimensional Box (3D)* Boundary Conditions* Wave Function for 3D Problem* Energy Eigen Values* Degeneracy of Energy Level	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
05	Engineering Physics-II		Rectangular Potential Barrier <ul style="list-style-type: none">* Potential Barrier Problem* Boundary Conditions* Special Cases When $E < V$ and When $E > V$* Transmission Coefficient and Reflection Coefficient* Transmission Probability and Reflection Probability* Tunneling with Example	
06	Engineering Physics-II		Free Electron Gas Model <ul style="list-style-type: none">* Models on Free Electron* Sommer field's Theory* Density of States* Fermi Energy* Fermi Function	
07	Engineering Physics-II		Coherence <ul style="list-style-type: none">* Types of Coherence* Temporal Coherence* Spatial Coherence* Coherence Length & Coherence Time* Q-Factor* Size of the Source* Visibility as the Measurement of Coherence* Real Life Examples	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
08	Engineering Physics-II		Optical Fibers <ul style="list-style-type: none">* Types of Optical Fiber* Optical Fiber as Optical Wave Guide* Numerical Aperture* Acceptance Angle* Application of Optical Fiber	
09	Engineering Physics-II		LASER <ul style="list-style-type: none">* Meaning of Laser* Properties of Laser* Interaction of Radiation with matter* Absorption* Spontaneous Emission* Induced Emission* Relationship between Einstein's Coefficients* Threshold Condition of Lase Action	
10	Engineering Physics-II		He-Ne LASER <ul style="list-style-type: none">* Components of Laser System* Construction* Metastable State* Population Inversion* Energy Level Diagram* Working of He-Ne Laser* Advantages of He-Ne Laser* Application of He-Ne Laser	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
11	Engineering Physics-II		Holography <ul style="list-style-type: none">* Holography Vs Photography* Fundamental of Holography* Construction of Holography* Reconstruction of Holography* Basic Requirements of Holographic Laboratory* Applications of Holography	
12	Engineering Physics-II		Radiation <ul style="list-style-type: none">* Types of Radiation* Charged Particles* Uncharged Particles* Ionizing Radiation* Interaction of Radiation with Matter* Radiation Detectors	
13	Engineering Physics-II		Radiation Detectors <ul style="list-style-type: none">* Main Components of Radiation Detectors* Gas Filled Tube Detectors* Scintillation Crystal Detectors* Solid State Semiconductors detectors* Block Diagrams	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
14	Engineering Physics-II		Gas Filled Detectors <ul style="list-style-type: none">* Ionization Current Versus Voltage* Recombination Region* Ionization Chamber Region* Proportional Region* Limited Proportional Region* Geiger-Muller Region* Continuous Discharge Region	
15	Engineering Physics-II		Counters <ul style="list-style-type: none">* Proportional Counter* Geiger-Muller Counter* Principle* Construction* Working* Electric Field in Counter* Efficiency of Counter* Dead Time* Resolving Time* Recovery Time* Properties	
16	Engineering Physics-II		Scintillation Counter <ul style="list-style-type: none">* Principle* Scintillator Materials* Types of Scintillator* Construction* Working* Efficiency & Properties	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Fundamental of Computer Programmimg		Storage Devices <ul style="list-style-type: none">* Primary storage* Secondary storage* Tertiary storage	
02	Fundamental of Computer Program		Operating system <ul style="list-style-type: none">* Concepts* Need for Operating system* Types of operating system	
03	Fundamental of Computer Program		Programming Language <ul style="list-style-type: none">* Clarify the program* Design the program* Code the program* Test the program* Document & maintain the program	
04	Fundamental of Computer Program		Data Types <ul style="list-style-type: none">* Basic data types* Derived data types* User defined data types	
05	Fundamental of Computer Program		Storage classes <ul style="list-style-type: none">* Automatic* Register* Static* External	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
06	Fundamental of Computer Program		Standard Input & Output Function <ul style="list-style-type: none">* Formatted function* Unformatted function* User defined function	
07	Fundamental of Computer Program		Control statement <ul style="list-style-type: none">* Conditional* Looping* Sequence	
08	Fundamental of Computer Program		Array <ul style="list-style-type: none">* 1 D Array* 2 D Array* 3 D Array	
09	Fundamental of Computer Program		Structure <ul style="list-style-type: none">* Concepts* Structure within structure* Structure using typedef	
10	Fundamental of Computer Program		Pointers <ul style="list-style-type: none">* Concepts* Assign value using pointer* Pointer to pointer* Pointer expression	

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11	Fundamental of Computer Program		String <ul style="list-style-type: none">* Concepts* String handling function	
12	Fundamental of Computer Program		Preprocessor <ul style="list-style-type: none">* Concepts* Preprocessor directive	
13	Fundamental of Computer Program		Programming Environment <ul style="list-style-type: none">* Invoke TC Compiler* Editing the source program* Compilation process* Executing the program	
14	Fundamental of Computer Program		File handling <ul style="list-style-type: none">* Concepts* Performing file operation* Types of files* End of file	
15	Fundamental of Computer Program		Problem solving technique <ul style="list-style-type: none">* Algorithm* Flowchart* Pseudo code	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Engineering Mathematics-II		<p>Introduction of coordinate geometry of three dimensions</p> <ul style="list-style-type: none">* Coordinates<ul style="list-style-type: none">- Definition- Origin- Axes- Distance between two points- Section formula* Direction cousins and projections<ul style="list-style-type: none">- Definition- Directions cosines of a line- Direction cosines of coordinate axes- Direction cuisines ratio of coordinated axes* Angle between two lines<ul style="list-style-type: none">- Condition of perpendicularity (with diagram)- Condition of parallelism (with diagram)	
02	Engineering Mathematics-II		<p>Sphere</p> <ul style="list-style-type: none">* Introduction of sphere* Definition* Equation of sphere* Plane section of sphere* Intersection of two sphere* Intersection of a sphere and line	
03	Engineering mathematics-II		<p>Cone and cylinder</p> <ul style="list-style-type: none">* Introduction* Definition* Equation of Cone and cylinder	

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04	Engineering Mathematics-II		<ul style="list-style-type: none">* Introduction of right circular cone and right circular cylinder* Guiding curve* Generating line* Application of RCC <p>Introduction of Matrix</p> <ul style="list-style-type: none">* Definition of matrix* Notation and type of matrix* Algebra of matrices* Application of matrix in science	
05	Engineering Mathematics-II		<p>Introductions of rank</p> <ul style="list-style-type: none">* Definition of rank* Application of rank in system of 3 linear equation* Method of finding rank<ul style="list-style-type: none">- Normal form method- Echelon form method	
06	Engineering Mathematics-II		<p>Introduction of eigen value and eiger vectors</p> <ul style="list-style-type: none">* Definition and characteristics equation* Cayley-Hamilton theorem<ul style="list-style-type: none">- Statement of CHT- Application of CHT in vector calculate	
07	Engineering Mathematics-II		<p>Introduction of vector calculus</p> <ul style="list-style-type: none">* Definition* Vector function and scalar function	

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08	Engineering Mathematics-II		<ul style="list-style-type: none">* Derivative of a vector function in terms of its components* Geometrical Interpretation of $dr./dt$* Scalar add vector fields* Gradient and divergence <p>Introduction of differentiation and integration of vector functions</p> <ul style="list-style-type: none">* Differential operator and curl* Line integral* Surface integrals* Volume of Inlegrals <p>Application of differentiation and Integration of vector functions</p>	
09	Engineering Mathematics-II		<p>Application of vector calculus</p> <ul style="list-style-type: none">* Discussed main theorem based on* Green's theorem in a plane* Gauss's and stoke theorem	
10	Engineering Mathematics-II		<p>Fourier series</p> <ul style="list-style-type: none">* Introduction* Definitions* Orthogonal set* Periodic function* Fourier coefficients* Even and odd function	

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11	Engineering Mathematics-II		Change of Interval * Application of in Engineering problem * Half-Range series * Dirichlet condition	
12	Engineering Mathematics-II		Introduction of harmonic analysis * Definition of Harmonic Analysis * First harmonic * Second harmonic * The mode of vibrating string Application of harmonic Analysis in life	
13	Engineering Mathematics-II		Solution in series * Introduction * Definition * Power series method * Validity of the power series method - Regular function with example - Ordinary point with example - Singular point with example	
14	Engineering Mathematics-II		Introduction of partial differential equations * Definition (Basic concept) * Formation of P.D.E * Boundary value problem in Heat Equation and wave equation in one dimensional.	

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15	Engineering Mathematics-II		<p>Introduction of partial differential equation of first order</p> <ul style="list-style-type: none">* Definition types of P.D.E* Types of methods <p>Introduction of special type of partial differential equation</p> <ul style="list-style-type: none">* Method of solution <p>Introduction of non linear P.D.E</p> <ul style="list-style-type: none">* Definition* Auxiliary equations* Type of method carpit method	