

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	Paras Patel (830)	Statics of particles and Rigid bodies * Application of law of Mechanics * Resolution of force, moments and couples * Various type of system of forces	2/4'
02	Engineering Mechanics	Vinay Kumar (832)	Varignon's and Lamis Theorem * Application of Virginia's and lames theorem * Free body diagram of bodies under equilibrium. * Condition of equilibrium.	2/4'
03	Engineering Mechanics	Vinay Kumar (836)	Virtual work * Concept of virtual work in Mechanical work. * Calculation of Active force diagram * Calculation of deflection on various beam using virtual work.	2/4'
04	Engineering Mechanics	Nitin (839)	Centroid and moment of ninteties * Concept of centroid and centre of gravity * Moment of inertia using parallel axis theorem * Moment of inertia using perpendicular axis theorem * Radius of Gyration	2/4'
05	Engineering Mechanics	Akshay (840)	Calculation of Centroid and moment of inertia * Calculation for I - Section. * Calculation for T - Section. * Calculation for L - Section	2/4'

* Students of Batch 7 & 8+ will attend seminar (Seminar Hall)
Mechatronics (Batch 1)

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
06	Engineering Mechanics	Fasdim Khan (844)	Lifting Machines * Fundamental of lifting Machines. * Reversibility of Machine. * Law of Machines.	2/4 th
07	Engineering Mechanics	Himanshu (849)	System of Pulley's * Simple wheel and axis * Wheel and differential axis * Weston's different pulley	2/4 th
08	Engineering Mechanics	Vidhan (850)	Application of lifting Machine * To increase velocity ratio * To improve efficiency * To decrease the load and effort	2/4 th
09	Engineering Mechanics	Sai Shira (852)	Friction * Various types of Friction * Advantage and disadvantage of friction * Application of friction on Aircraft tyres	16/4 th
10	Engineering Mechanics	Sahas (855)	Friction on Loader and wedge * Variation of friction on ladder. * Load and angle of friction on Ladder * Friction on wedge shape surface	16/4 th
11	Engineering Mechanics	Rohit (859)	Belt drive * Various type of belt drive. * Method to increase velocity ratio * Effect of slip on velocity ratio.	16/4 th

Students of Batch 7, 8 & 9+ will attend (Seminar Hall)
Mechatronics (Batch 1)

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
12	Engineering Mechanics	Nikhil (860)	Power transmission by belt drives * Ratio of tensions and power by flat belt drives * Ratio of tensions and power by V belt drives.	16/4 ^o
13	Engineering Mechanics	Pulkit (861)	Kinematics of particles and Rigid bodies * Type of motion * Rectangular components of velocity acceleration. * Difference between angular and transverse velocity and acceleration.	16/4 ^o
14	Engineering Mechanics	lovely (862)	Law of Motion * Application of newton's law of motion. * Equation of motion in rectangular coordinate. * D alambert's principle application	16/4 ^o
15	Engineering Mechanics	Akhil (864)	Work energy and power * Work due to force, weight and spring. * Principle of work and energy. * Power calculation for lifting and rolling weights.	16/4 ^o
16	Engineering Mechanics	Yogesh (867)	Impulse and momentum * Principle of liner impulse and momentum. * Principle of angular momentum and impulse. * Conservation of angular momentum.	16/4 ^o

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Engineering Chemistry-II	Samart (875)	Types of hardness in water * Pneuament * Formula to describe both. * Temperature * Units in terms of which it can be explained.	23/4
02	Engineering Chemistry-II	Sarinder (876)	Galvanic cell * Construction. * Working * Application	23/4
03	Engineering Chemistry-II	Kashish (879)	Preventive measures of corrosion * Arodic * Cathodic protection	23/4
04	Engineering Chemistry-II	Sanjay (880)	Electroplating with uses. * Definition * Types of electroplating. * Role of applications	23/4
05	Engineering Chemistry-II	Subham (881)	Units of hardness with EDTA method * 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.	23/4

= Students batch 7 and 9 and Mechanicis (B1) will attend.

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
06	Engineering chemistry-II	Manoj (882)	Lime Soda method to remove hardness in water. * All Rexes of Lime soda. * Method to Explain removed of hardness i.e. cold lime soda & hot lime soda method.	23/4
07	Engineering chemistry-II	(Puneet (887))	Acclivity and types of acclivity in water * Definition of acclivity. * Acclivity causing Ionic combination. * Calculation for detection of acclivity in water.	23/4
08	Engineering chemistry-II	Yash (888)	Zeolite method & reverse osmosis. * Introduction * Diagrammatic Explanation * Advantages & Disadvantages.	23/4
09	Engineering chemistry-II	Alka Yadav (857)	Ion exchange method and mixed bed-demineralization. * Meaning of Ion exchange. * Explanation of Technique with diagram. * Advantage and disadvantage.	30/4 ^①
10	Engineering chemistry-II	Gaurav (877)	Electro dialysis * Electro dialysis mean removed of salts/hardness of water by electricity. (Explanation) of technique to carry out the process.) * Advantages / Disadvantages.	30/4 ^①

① Students of Mechanisms B-1, B-8 and B-9 will attend (Seminar Hall)

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B.Tech. Semester -2

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
11	Engineering chemistry-II	Poojya (939)	Boiler corrosion / caustic embroilment * Boiler corrosion causes. * Prevention measures. * Advantages / Disadvantages.	30/4 ^①
12	Engineering chemistry-II	Pradeep (945)	Ecosystem : Explanation for all types of ecosystem * Pond * Desert * Water * Land	30/4 ^①
13	Engineering chemistry-II	Aman (996)	Electrochemical cell * Principle * Construction * Working * Applications	30/4 ^①
14	Engineering chemistry-II	Krishank. Tinai (952)	Bio diversity/ Population dynamics * Basic Introduction * Formula for calculation * Explain with graph. * Utility	30/4 ^①
15	Engineering chemistry-II	Priyam (889)	Renewable sources of energy * Sources * Applications * How they can be renewed.	30/4 ^①

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
16	Engineering chemistry-II	Lavish (892)	Air pollution/hardness effects of air pollution causes * Preventive measures * Hazards	30/4 ①.
17	Engineering chemistry-II	Abhinav (894)	Global warning * Introductions * Causes Hazards * Preventive measures	7/5
18	Engineering chemistry-II	Abhinav (896)	Cause and prevention of noise corrosion. Acid rain hazardous effects and precautions. Classification of solid waste with treatment. Solid waste management	7/5
19	Engineering chemistry-I	Jigyanshu (898)	Rain water harvesting * Rain water harvesting technique for different methods. * Utility of R.W.H.	7/5
20	Engineering chemistry-II	Aman (900)	Mechanism of Electrochemical and dry corrosion with factors. * Causes of dry corrosion/Elect corrosion * Corrosion causing factors.	7/5

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
21	Engineering Chemistry-II	Mayank (901)	Control of air/noise pollution. * Air pollution * Effective of pollution in human beings/moments building etc. * Preventive measures.	7/5
22	Engineering chemistry-II	Anmol (902)	Corrosion causes * Corrosion causes * Factors affecting corrosion * Preventive measures.	7/5

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B.Tech. Semester -2

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Communication Technique	Sagar (905)	Prepare a seminar on Elements of Communication. * Meaning of Communication * Importance of Communication * Process of Communication * Objectives of Communication * Media of Communication	7/5
02	Communication Technique	Jayashree (905)	Prepare a seminar on Components of Communication Process. * Sender * Message * Channel * Receiver * Feedback * Communication cycle * Receiving suggestions * Persuading people	7/5
03	Communication Technique	Divash (830)	Prepare a seminar on Media & Types of Communication * Interpersonal Communication * Intrapersonal Communication * Group Communication * Public Communication	2/5

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
04	Communication Technique	Yash Verma (833)	Prepare a seminar on Verbal Communication * 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	21/5
05	Communication Technique	Manish (834)	Prepare a seminar on Non – Verbal Communication * Non – verbal communication * Functions of Non – verbal communication * Proxemics * Kinesics * Chronemics * Para language * Elements of Para language * Artifacts	21/5
06	Communication Technique	Shivam (835)	Prepare a seminar on Formal & Informal Channels of Communication * Channels of Communication * Formal Communication * Characteristics of Formal Communication * Advantages of Formal Communication * Limitations of Formal Communication	21/5

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
07	Communication Technique	Yash Vadaliya (838)	<ul style="list-style-type: none">* Informal Communication* Advantages of Informal Communication* Limitations of Informal Communication* Comparison between Formal & Informal communication Prepare a seminar on Barriers to Communication <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	21/5
08	Communication Technique	Ashu Dubey (847)	Prepare a seminar on Professional Communication <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	21/5

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B.Tech. Semester -2

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
09	Communication Technique	Aditya (848)	Prepare a seminar on Types of Professional Communication <ul style="list-style-type: none"> * Written communication * Types of Written communication * Oral communication * Types of Oral communication * Graphic communication * Types of Graphic communication 	21/5
10	Communication Technique	Tarun (853)	Prepare a seminar on Interpersonal Communication & methods to improve it <ul style="list-style-type: none"> * 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 	21/5
11	Communication Technique	Prit (854)	Prepare a seminar on Subject – Verb agreement <ul style="list-style-type: none"> * 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 	2/4

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☒ Understanding subject ☒ Verb agreement

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B.Tech. Semester -2

S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
12	Communication Technique	Shadab (856)	Prepare a seminar on Linking Words * Meaning of Linking words * Function of Linking words * Co-ordinating Conjunctions * Kinds of sub-ordinating conjunctions * Co-relative conjunctions * Transitional words & phrases	2/4
13	Communication Technique	Sonalika (858)	Prepare a seminar on Relative Clauses * Meaning of Relative clauses * Kinds of Subordinate clauses * Defining Relative clauses * Non-defining Relative clauses * Common mistakes * Recapitulation	2/4
14	Communication Technique	Simran (866)	Prepare a seminar on Resume Writing * 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	16/4

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
15	Communication Technique	Purva (868)	Prepare a seminar on Business Letter Writing * 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	16/4
16	Communication Technique	Shreyash (883)	Prepare a seminar on Types of Communication barriers * Environmental barriers * Language barriers * Psychological barriers * Physical barriers * Barriers attributable to the caller * Barriers attributable to the receiver * Conclusion	16/4
17	Communication Technique	Ashish (885)	Prepare a seminar on Job Application Letter * Solicited Job application letter * Unsolicited Job application letter * Effective Job application letter * Writing Covering letter * Do's & Don'ts of Job application letter * Samples	23/4

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
01	Engineering Physics-II	Sudhakar (891)	Compton Effect * Statement and Theory * Compton Wavelength * Direction of Recoil Electron * Kinetic Energy of Recoil Electron * Frequency and Energy of Scattered Radiation	23/4
02	Engineering Physics-II	Akash (904)	Schrodinger's Wave Equation * Wave Function * Time Dependent Wave Equation * Time Independent Wave Equation * Significance of Wave Equations * Physical Interpretation of Wave Function	23/4
03	Engineering Physics-II	Ritesh (913)	Particle in one dimensional Box * Normalization Condition * Boundary Value Problem * Eigen Value and Eigen Function * Energy Levels for one dimensional Box	30/4
04	Engineering Physics-II	Nagxi (936)	Application of Schrodinger's Wave Equation * 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	30/4

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
05	Engineering Physics-II	Shyam (924)	Rectangular Potential Barrier * 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	30/4
06	Engineering Physics-II	Faheem (954)	Free Electron Gas Model * Models on Free Electron * Sommer field's Theory * Density of States * Fermi Energy * Fermi Function	7/5
07	Engineering Physics-II	Ranvijay (906)	Coherence * 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	7/5

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
08	Engineering Physics-II	Radhey (907)	Optical Fibers * Types of Optical Fiber * Optical Fiber as Optical Wave Guide * Numerical Aperture * Acceptance Angle * Application of Optical Fiber	7/5
09	Engineering Physics-II	Mohit (908)	LASER * 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	21/5
10	Engineering Physics-II	Surjit (909)	He-Ne LASER * 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	21/5

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
11	Engineering Physics-II	Raktim (911)	Holography * Holography Vs Photography * Fundamental of Holography * Construction of Holography * Reconstruction of Holography * Basic Requirements of Holographic Laboratory * Applications of Holography	21/5
12	Engineering Physics-II	Chetan (912)	Radiation * Types of Radiation * Charged Particles * Uncharged Particles * Ionizing Radiation * Interaction of Radiation with Matter * Radiation Detectors	
13	Engineering Physics-II	Chinmaya (914)	Radiation Detectors * 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	Prabuddha (915)	Gas Filled Detectors * Ionization Current Versus Voltage * Recombination Region * Ionization Chamber Region * Proportional Region * Limited Proportional Region * Geiger-Muller Region * Continuous Discharge Region	
15	Engineering Physics-II	Prigyanika (916)	Counters * 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	Sameer (918)	Scintillation Counter * 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	Vibhal (919)	Storage Devices <ul style="list-style-type: none">* Primary storage* Secondary storage* Tertiary storage	
02	Fundamental of Computer Program	Sanjeev (920)	Operating system <ul style="list-style-type: none">* Concepts* Need for Operating system* Types of operating system	
03	Fundamental of Computer Program	Santosh (921)	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	Ganesh (922)	Data Types <ul style="list-style-type: none">* Basic data types* Derived data types* User defined data types	
05	Fundamental of Computer Program	Gideon (927)	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	Aurag (928)	Standard Input & Output Function * Formatted function * Unformatted function * User defined function	
07	Fundamental of Computer Program	Ayushman (929)	Control statement * Conditional * Looping * Sequence	
08	Fundamental of Computer Program	Zafar (931)	Array * 1 D Array * 2 D Array * 3 D Array	
09	Fundamental of Computer Program	Sandhya (933)	Structure * Concepts * Structure within structure * Structure using typedef	
10	Fundamental of Computer Program	Karthik (935)	Pointers * Concepts * Assign value using pointer * Pointer to pointer * Pointer expression	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
11	Fundamental of Computer Program	Abluhek (937)	String <ul style="list-style-type: none">* Concepts* String handling function	
12	Fundamental of Computer Program	Kranthi (938)	Preprocessor <ul style="list-style-type: none">* Concepts* Preprocessor directive	
13	Fundamental of Computer Program	Mayur (940)	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	Jay (942)	File handling <ul style="list-style-type: none">* Concepts* Performing file operation* Types of files* End of file	
15	Fundamental of Computer Program	Katavikon (943)	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	Takir (944)	<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	Bidhan (947)	<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	Jalwin (948)	<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	Bhartendu (949)	<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	Navdeep (950)	<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	Adil (953)	<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	Aapit (955)	<p>Introduction of vector calculus</p> <ul style="list-style-type: none">* Definition* Vector function and scalar function	

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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
08	Engineering Mathematics-II	Jiteendra (957)	<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 Introduction of differentiation and integration of vector functions <ul style="list-style-type: none">* Differential operator and curl* Line integral* Surface integrals* Volume of Inlegrals Application of differentiation and Integration of vector functions	
09	Engineering Mathematics-II	Raviinder (958)	Application of vector calculus <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	Adarsh (960)	Fourier series <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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S.No	Subject	Name of Student	Seminar Topic	Date of Seminar
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	

