***Lesson Plan( odd sem) 2023-24 Physics***

***Lesson plan 1 sem***

*Name of the Assistant professor:- Ritu Malik*

*Class and Section:…B.Sc 1st Sem( Sections-B & C)*

*Subject:- Electricity And Magnetism*

*Session :-2023-24*

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| *Week*  | *Topics* |
| *4th week of July* | *Introductory class on electricity and magnetism , discussion of syllabus and basic mathematics* |
| *1st week of August* | *Introduction of Unit -1 ( Mathematical Background):- what are scalars, vectors Addition and subtraction of vectors,dot and cross product of vectors with numericals practice.* |
| *2nd week of August* | *Vector triple product and scalar triple product and scalar and vector fields.Numerical practice of vector and scalar product based problems.Differentiation of a vector.* |
| *3rd week of August* | *Gradient of a scalar field and its physical significance Integration of a vector field ( line integral , surface and volume integral with their physical significance),Gauss's divergence theorem*  |
| *4th week of August* | *Revision of Gauss's divergence theorem,stoke’s theorem Electrostatic field , derivation of field E from potential as gradient , Numerical practice and class test.* |

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| *Date* | *Topics* |
| *5th week of August* | *Derivation of Laplace equation and poission's equation,electric flux and Derivation of Gauss ‘s law of electrostatic* |
| *1st week of september.*  |  *Gauss's law's application to spherical Shell,Uniformly charged infinite plane. Calculate value of Electric field due to uniformly charged infinite straight wire by using Gauss’s Law of electrostatic* |
| *2nd week of September* |  *Mechanical force of charged surface,energy per unit volume,Assignment of unit -1, Test of unit -1,* |
| *3rd week of september* | *Introduction of Unit -2( Magnetostatistics)Magnetic induction , magnetic flux,solenoidal nature of vector field of induction.properties of B ,(i) Div of B = 0,(ii) curl of B = uoJ,* |

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| *Date* | *Topics* |
| *4th week of september* | *Derivation of susceptibility by using Electronic theory of dia and paramagnetism, Class test of Langevin’s theory for Dia and paramagnetism* |
| *1st week of October* | *Domain theory of ferromagnetism(Langevin theory), Cycle of magnetization Hysteresis loop ( Energy dissipation, Hysteresis loss,Importance of Hysteresis curve),numerical practice.*  |
| *2nd week of October* | *Introduction of Maxwell ‘s equation,Definition of displacement current,Derivation of Maxwell’s equation in differential form* |
| *3rd week of October* | *Derivation of maxwell’ equation in integral form ,Vector and scalar potential. Revision of Maxwell’ ‘s equation.* |

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| *Date* | *Topics* |
| *4th week of October* | *Boundary conditions at the interface between two different media****,****Propagation of electromagnetic wave ( Basic idea),*  |
| *1st week of November* | *Poynting vector, Derivation of Poyntingt heorem and revision of unit -3 ,* |
| *2nd week of November* | *Diwali break* |
| *3rd week of November* | *class test of unit -3,Doubt Class* |
| *4th week of November and onward*  | *Revision*  |

***Lesson Plan(Theory)***

*Name of the Assistant professor:- Komal*

*Class and Section:…B.Sc 1st Sem( Sections-A)*

*Subject:- Electricity And Magnetism*

*Session :-2023-24*

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| *Week*  | *Topics* |
| *4th week of July* | *Introductory class on electricity and magnetism , discussion of syllabus and basic mathematics* |
| *1st week of August* | *Introduction of Unit -1 ( Mathematical Background):- what are scalars, vectors Addition and subtraction of vectors,dot and cross product of vectors with numericals practice.* |
| *2nd week of August* | *Vector triple product and scalar triple product and scalar and vector fields.Numerical practice of vector and scalar product based problems.Differentiation of a vector.* |
| *3rd week of August* | *Gradient of a scalar field and its physical significance Integration of a vector field ( line integral , surface and volume integral with their physical significance),Gauss's divergence theorem*  |
| *4th week of August* | *Revision of Gauss's divergence theorem,stoke’s theorem Electrostatic field , derivation of field E from potential as gradient , Numerical practice and class test.* |

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| *Date* | *Topics* |
| *5th week of August* | *Derivation of Laplace equation and poission's equation,electric flux and Derivation of Gauss ‘s law of electrostatic* |
| *1st week of september.*  |  *Gauss's law's application to spherical Shell,Uniformly charged infinite plane. Calculate value of Electric field due to uniformly charged infinite straight wire by using Gauss’s Law of electrostatic* |
| *2nd week of September* |  *Mechanical force of charged surface,energy per unit volume,Assignment of unit -1, Test of unit -1,* |
| *3rd week of september* | *Introduction of Unit -2( Magnetostatistics)Magnetic induction , magnetic flux,solenoidal nature of vector field of induction.properties of B ,(i) Div of B = 0,(ii) curl of B = uoJ,* |

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| *Date* | *Topics* |
| *4th week of september* | *Derivation of susceptibility by using Electronic theory of dia and paramagnetism, Class test of Langevin’s theory for Dia and paramagnetism* |
| *1st week of October* | *Domain theory of ferromagnetism(Langevin theory), Cycle of magnetization Hysteresis loop ( Energy dissipation, Hysteresis loss,Importance of Hysteresis curve),numerical practice.*  |
| *2nd week of October* | *Introduction of Maxwell ‘s equation,Definition of displacement current,Derivation of Maxwell’s equation in differential form* |
| *3rd week of October* | *Derivation of maxwell’ equation in integral form ,Vector and scalar potential. Revision of Maxwell’ ‘s equation.* |

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| *Date* | *Topics* |
| *4th week of October* | *Boundary conditions at the interface between two different media****,****Propagation of electromagnetic wave ( Basic idea),*  |
| *1st week of November* | *Poynting vector, Derivation of Poyntingt heorem and revision of unit -3 ,* |
| *2nd week of November* | *Diwali break* |
| *3rd week of November* | *class test of unit -3,Doubt Class* |
| *4th week of November and onward*  | *Revision*  |

Name: - Meena Yadav

Class: B.Sc. 1st Year Sem (1), Section- (B & C) Subject: Mechanics

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| 4th week July | Introduction of subject and discussion of examination pattern. |
| 1st week August | Mechanics of single and system of particle |
| 2nd week of August | Conservation laws of linear momentum and angular momentum for single particle |
| 3rd week of August | Conservation laws of linear momentum and angular momentum for system of particles |
| 4th week of August | Centre of mass and equation of motion |
| 1st week of September | Constrained motion, degrees of freedom, Test of unit-1, assignment based on unit-1, |
| 2nd week September | Generalised coordinates, displacement, Velocity, acceleration, momentum, |
| 3rd week of September | Generalized force and momentum, Hamilton’s variational principle, Lagrange’s equation of motion from Hamilton’s Principle |
| 4th week of September | Linear Harmonic oscillator, simple pendulum, Atwood’s machine. Assignment submission and Unit test 2 test |
| 1st week of October | Basic idea of unit -3, Rotation of Rigid body, moment of inertia, torque, angular momentum, |
| 2nd week of October | kinetic energy of rotation. Acceleration of a body rolling down on an inclined plane. |
| 3rd week of October | Theorems of perpendicular and parallel axes with proof. Moment of inertia solid sphere |
| 4th week of October | Derivation of moment of inertia of hollow sphere, spherical shell, solid cylinder. |
| 1st week of November | Derivation of moment of inertia of hollo cylinder andsolid bar of rectangular cross section |
| 2nd week of November | Derivation of Acceleration of a body rolling down on an inclined plane |
| 3rd week of november | Practice of numerical problems based on moment of inertia. |
| 4th week of November | Unit test of unit-3, assignment based on moment of inertia |
| 1st week December | Revision and doubt classes |

Name: - Komal

Class: B.Sc. 1st Year Sem (1), Section- (A) Subject: Mechanics

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| --- | --- |
| 4th week July | Introduction of subject and discussion of examination pattern. |
| 1st week August | Mechanics of single and system of particle |
| 2nd week of August | Conservation laws of linear momentum and angular momentum for single particle |
| 3rd week of August | Conservation laws of linear momentum and angular momentum for system of particles |
| 4th week of August | Centre of mass and equation of motion |
| 1st week of September | Constrained motion, degrees of freedom, Test of unit-1, assignment based on unit-1, |
| 2nd week September | Generalised coordinates, displacement, Velocity, acceleration, momentum, |
| 3rd week of September | Generalized force and momentum, Hamilton’s variational principle, Lagrange’s equation of motion from Hamilton’s Principle |
| 4th week of September | Linear Harmonic oscillator, simple pendulum, Atwood’s machine. Assignment submission and Unit test 2 test |
| 1st week of October | Basic idea of unit -3, Rotation of Rigid body, moment of inertia, torque, angular momentum, |
| 2nd week of October | kinetic energy of rotation. Acceleration of a body rolling down on an inclined plane. |
| 3rd week of October | Theorems of perpendicular and parallel axes with proof. Moment of inertia solid sphere |
| 4th week of October | Derivation of moment of inertia of hollow sphere, spherical shell, solid cylinder. |
| 1st week of November | Derivation of moment of inertia of hollo cylinder andsolid bar of rectangular cross section |
| 2nd week of November | Derivation of Acceleration of a body rolling down on an inclined plane |
| 3rd week of november | Practice of numerical problems based on moment of inertia. |
| 4th week of November | Unit test of unit-3, assignment based on moment of inertia |
| 1st week December | Revision and doubt classes |

**Lesson Plan 2023-2024 (3rd sem)**

Name: Smriti Sharma

Class: BSc II and section B& C

Paper code: PHY 302

Subject Name: OPTICS I

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| 4th week of july | Speed of transverse waves on a uniform string & Speed of longitudinal waves in a fluid. |
| 1st  week of August | Superposition of waves in a fluid- physical idea, Numerical regarding above mentioned topics. Fourier series- Recapitulations of oscillatory motion and periodic motion, Introduction to Fourier Theorem.  |
| 2nd week of August | Evaluation of Fourier coefficients, Limitations of Fourier Theorem , (Dirichlet Condition), Importance of Fourier Theorem, Fourier series of function f(x) between limits- π to π.  |
| 3rd week of August | Introduction to even and odd functions, Examples of Fourier Series Rectangular Waves, Triangular Wavesand Half Wave Rectifier.  |
| 4th week of August | Full Wave Rectifier, Numerical, Class test, Introduction to Fourier Transforms.  |
| 5th week of August | Fourier Sine Transform and Fourier Cosine Transform, Properties of Fourier Transforms, Application of Fourier Transform to the function- 1. f (x) = $e^{-x^{2}/2}$ 2. f(x) =1 [x] ˂ a = 0 [x] ˃ a, |
| 1st week of September | Introduction of Matrix, Matrix Formation, Translation & Refraction, Co-ordinates of Paraxial rays, Effect of Translation and Translation Matrix |
| 2nd week of September | Effect of Refraction and Refraction Matrix, System Matrix, System Matrix for Thick lens and Thin lens. Assignment 1 |
| 3rd week of September |  Numerical Problems and class test |
| 4th week of September | Unit Planes, Nodal planes, System of Thin Lenses  |
| 1st week of October | Numerical, Class test and ASSIGNMENT 2 |
| 2nd week of October | Aberrations- Chromatic, Spherical coma, Astigmatism, Distortion aberrations and their remedies  |
| 3rd week of October | Interference- Experimental demonstration of Interference, Introduction to Coherent Sources, Interference by division of wavefront, Path difference and Phase difference  |
| 4th week of October | Fringe width-Expression, Fresnel’s Biprism and its applications to determination of Sodium light and thickness of Mica sheet  |
| 1st  week of November | Lloyd’s mirror, phase change on reflection (Stoke’s law), Numerical on interference  |
| 2nd week of November | Lloyd’s mirror, phase change on reflection (Stoke’s law), Numerical on interference  |
| 3rd week of November |  class test &Revision of unit 2 |
| 4th week of November & 1 week of December |  Revision of Unit 3 and test |

Name: Abhilasha

Class: BSc II and section C & D

Paper code: PHY 301

Subject Name: Computer programming and Thermodynamics

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| 4th week of July | Introduction of thermodynamics |
| 1st week of August | Zeroth law and first law of thermodynamics and Thermodynamical processes. |
| 2nd week of August | Numerical Problems and Assignment |
| 3rd week of August | Carnot theorem and 2nd law of thermodynamics. |
| 4th week of August | Entropy, T-S Diagram, Nernst Heat law, Joule’s Thomson experiment |
| 5 th week of August | Second law of thermodynamics, Carnot theorem, Absolute scale of temperature, absolute zero |
| 1st  week of September |  Joule-Thomson effect, liquefication of gases, air pollution due to internal combustion Engine |
| 2nd week of September | Introduction to Computer organisation & brief discerption on binary representation , Algorithm development, Flow charts and their interpretations |
| 3rd week of September | Fortran preliminaries, integer and floating-point arithmetic expression, built in functions |
| 4th week of September | Executable and non- executable statements, input and output statements, Formats  |
| 1st week of October | I.F. Do and GO TO statements, Dimension array statement function and function subprogram & class test  |
| 2nd week of October | Triple point of a substance, Development of Maxwells thermodynamic relations  |
| 3rd week of october | Revision of Unit 1 and discuss numerical prblem |
| 4th week of october | Application of maxwell relations in the derivation of relations between entropy |
| 1st week of November | Assignment Submission and group discussion |
| 2nd week of November | Holidays  |
|  3rd week of November | Specific heat and thermodynamic variables  |
| 4th week of November | Thermodynamic functions: internal energy, Helmoltz function , Enthaphy, Gibbs-function and relation between them |
| 5th week of November | **Revision and class tests** |
| 1 st week of December | Revision of Unit 3 |
|  | *09 Jan. onwards ( Examinations )* |

**Lesson Plan 2023-2024 (3rd sem)**

Name: Meena

Class: BSc II and section A

Paper code: PHY 302

Subject Name: OPTICS I

|  |  |
| --- | --- |
| 4th week of july | Speed of transverse waves on a uniform string & Speed of longitudinal waves in a fluid. |
| 1st  week of August | Superposition of waves in a fluid- physical idea, Numerical regarding above mentioned topics. Fourier series- Recapitulations of oscillatory motion and periodic motion, Introduction to Fourier Theorem.  |
| 2nd week of August | Evaluation of Fourier coefficients, Limitations of Fourier Theorem , (Dirichlet Condition), Importance of Fourier Theorem, Fourier series of function f(x) between limits- π to π.  |
| 3rd week of August | Introduction to even and odd functions, Examples of Fourier Series Rectangular Waves, Triangular Wavesand Half Wave Rectifier.  |
| 4th week of August | Full Wave Rectifier, Numerical, Class test, Introduction to Fourier Transforms.  |
| 5th week of August | Fourier Sine Transform and Fourier Cosine Transform, Properties of Fourier Transforms, Application of Fourier Transform to the function- 1. f (x) = $e^{-x^{2}/2}$ 2. f(x) =1 [x] ˂ a = 0 [x] ˃ a, |
| 1st week of September | Introduction of Matrix, Matrix Formation, Translation & Refraction, Co-ordinates of Paraxial rays, Effect of Translation and Translation Matrix |
| 2nd week of September | Effect of Refraction and Refraction Matrix, System Matrix, System Matrix for Thick lens and Thin lens. Assignment 1 |
| 3rd week of September |  Numerical Problems and class test |
| 4th week of September | Unit Planes, Nodal planes, System of Thin Lenses  |
| 1st week of October | Numerical, Class test and ASSIGNMENT 2 |
| 2nd week of October | Aberrations- Chromatic, Spherical coma, Astigmatism, Distortion aberrations and their remedies  |
| 3rd week of October | Interference- Experimental demonstration of Interference, Introduction to Coherent Sources, Interference by division of wavefront, Path difference and Phase difference  |
| 4th week of October | Fringe width-Expression, Fresnel’s Biprism and its applications to determination of Sodium light and thickness of Mica sheet  |
| 1st  week of November | Lloyd’s mirror, phase change on reflection (Stoke’s law), Numerical on interference  |
| 2nd week of November | Lloyd’s mirror, phase change on reflection (Stoke’s law), Numerical on interference  |
| 3rd week of November |  class test &Revision of unit 2 |
| 4th week of November & 1 week of December |  Revision of Unit 3 and test |

Name: Meena

Class: BSc II and section A

Paper code: PHY 301

Subject Name: Computer programming and Thermodynamics

|  |  |
| --- | --- |
| 4th week of July | Introduction of thermodynamics |
| 1st week of August | Zeroth law and first law of thermodynamics and Thermodynamical processes. |
| 2nd week of August | Numerical Problems and Assignment |
| 3rd week of August | Carnot theorem and 2nd law of thermodynamics. |
| 4th week of August | Entropy, T-S Diagram, Nernst Heat law, Joule’s Thomson experiment |
| 5 th week of August | Second law of thermodynamics, Carnot theorem, Absolute scale of temperature, absolute zero |
| 1st  week of September |  Joule-Thomson effect, liquefication of gases, air pollution due to internal combustion Engine |
| 2nd week of September | Introduction to Computer organisation & brief discerption on binary representation , Algorithm development, Flow charts and their interpretations |
| 3rd week of September | Fortran preliminaries, integer and floating-point arithmetic expression, built in functions |
| 4th week of September | Executable and non- executable statements, input and output statements, Formats  |
| 1st week of October | I.F. Do and GO TO statements, Dimension array statement function and function subprogram & class test  |
| 2nd week of October | Triple point of a substance, Development of Maxwells thermodynamic relations  |
| 3rd week of october | Revision of Unit 1 and discuss numerical prblem |
| 4th week of october | Application of maxwell relations in the derivation of relations between entropy |
| 1st week of November | Assignment Submission and group discussion |
| 2nd week of November | Holidays  |
|  3rd week of November | Specific heat and thermodynamic variables  |
| 4th week of November | Thermodynamic functions: internal energy, Helmoltz function , Enthaphy, Gibbs-function and relation between them |
| 5th week of November | **Revision and class tests** |
| 1 st week of December | Revision of Unit 3 |
|  | *09 Jan. onwards ( Examinations )* |

**LESSON PLAN 5th sem**

Name: Dr. Sushila Srivastava

Class: Bsc 5th sem , Section- A&B

 Subject: Quantum Physics

Paper Code: 502

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| 4th week of july | Failure of classical EM theory, Quantum theory of radiations |
| 1st week of August | Photon, photoelectric effect &Einstein’s photoelectric equation, Numerical problems |
| 2nd week of August | Compton effect, Inadequacy of old quantum theory |
| 3rd week of August | De- Broglie hypothesis, Davisson and Germer experiment, G.P. Thomson Experiment |
| 4th week of August | Phase velocity, group velocity |
| 5th week of August | Heisenberg’s uncertainty principle, time energy and angular momentum, positionuncertainty |
| 1st week September | Uncertainty principle from De- Broglie wave, Gamma ray microscope |
| 2nd weekSeptember | Electron diffraction from a slit, Applications of Heisenberg’s uncertainty principle |
| 3rd weekSeptember | Numerical problemsTest and assignment of unit 1 |
| 4th week September | Introduction to Schrodinger wave equation, Postulates of Quantum Mechanics, Derivation of time dependent Schrodinger wave equation |
| 1st week September | Wave function and its physical significance, time independent Schrodinger wave equation, eigen values and eigen functions |
| 1st week October | Normalization of wave function, orthogonality of wave functions, operators and observables |
| 2nd week October | Solution of Schrodinger equation for harmonic oscillator ground state and excited states. |
| 3rd week October | Test and discussion. Revision |
| 4th week October | Application of Schrodinger equation: free particle in one dimensional box |
| 1st week ofNovember | Numerical Problems test of unit 1 and 2 |
| 2nd week ofNovember | holidays |
| 3rd week ofNovember | One dimensional potential barrier( reflection and transmission coefficient) |
| 4th week of Nov & 1week of December | Penetration depth, numerical problems, test, assignments, revision. |

Name: Dr. Geetanjali

Class: Bsc 5th sem , Section- C&D

 Subject: Quantum Physics

Paper Code: 502

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| --- | --- |
| 4th week of july | Failure of classical EM theory, Quantum theory of radiations |
| 1st week of August | Photon, photoelectric effect &Einstein’s photoelectric equation, Numerical problems |
| 2nd week of August | Compton effect, Inadequacy of old quantum theory |
| 3rd week of August | De- Broglie hypothesis, Davisson and Germer experiment, G.P. Thomson Experiment |
| 4th week of August | Phase velocity, group velocity |
| 5th week of August | Heisenberg’s uncertainty principle, time energy and angular momentum, positionuncertainty |
| 1st week September | Uncertainty principle from De- Broglie wave, Gamma ray microscope |
| 2nd weekSeptember | Electron diffraction from a slit, Applications of Heisenberg’s uncertainty principle |
| 3rd weekSeptember | Numerical problemsTest and assignment of unit 1 |
| 4th week September | Introduction to Schrodinger wave equation, Postulates of Quantum Mechanics, Derivation of time dependent Schrodinger wave equation |
| 1st week September | Wave function and its physical significance, time independent Schrodinger wave equation, eigen values and eigen functions |
| 1st week October | Normalization of wave function, orthogonality of wave functions, operators and observables |
| 2nd week October | Solution of Schrodinger equation for harmonic oscillator ground state and excited states. |
| 3rd week October | Test and discussion. Revision |
| 4th week October | Application of Schrodinger equation: free particle in one dimensional box |
| 1st week ofNovember | Numerical Problems test of unit 1 and 2 |
| 2nd week ofNovember | holidays |
| 3rd week ofNovember | One dimensional potential barrier( reflection and transmission coefficient) |
| 4th week of Nov & 1week of December | Penetration depth, numerical problems, test, assignments, revision. |

Name: Himanshi

Paper Code: 501

Class: B.Sc. III, Sem 5th, section A& B

Subject: Solid State Physics

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| July 4th week | Unit1: Crystalline and glassy forms, liquid crystals |
| August 1st week | Crystal structure, periodicity, lattice and basis crystal translation vectors and axes |
| 2nd week | Unit cell and primitive cell, Winger Seitz primitive cell |
| 3rd week | Symmetry operations for a 2D crystal, space group and point groups, Bravais lattices in 3D |
| 4th week | Revision, assignment and unit test |
| 5th week | Unit2: Crystal planes and Miller indices, Interplanar spacing. |
| September 1st week | Numericals based on miller indices and interplanar spacing, Atomic packing Fractions forcubic and hexagonal systems |
| 2nd week | Crystal Structure of Sodium Chloride, Diamond and Zinc sulphide, Numericals based on Miller Indices. |
| 3rd week | X-Ray diffraction, Braggs Law treatment, numericals based on Bragg’s law |
| 4th week | Assignment submission and Unit test. |
| October 1st week | Experimental X ray diffraction methods: Powder method, Laue method and Rotating Crystalmethod |
| 2nd week | K Space, Need of Reciprocal Lattice and its physical significance, reciprocal lattice vectors |
| 3rd week | Construction of Reciprocal Lattice, physical significance of Reciprocal Lattice |
| 4th week | Unit test and assignment submission. Numericals based on reciprocal lattice vector. |
| November 1st week | Properties of reciprocal Lattice, Reciprocal lattice to a simple cubic lattice, bcc and fcc |
| 2nd week | Specific heat of solids, Einstein’s theory of specific heat. |
| 3rd week | Diwali Vacations |
| 4th week | Debye model of specific heat of solids |
| 5th week | Numerical Problems |
| December 1st week | Revision, doubt class and unit test |

Name: Sapna Kumari

Paper Code: 501

Class: B.Sc. III, Sem 5th, section C& D

Subject: Solid State Physics

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| --- | --- |
| July 4th week | Unit1: Crystalline and glassy forms, liquid crystals |
| August 1st week | Crystal structure, periodicity, lattice and basis crystal translation vectors and axes |
| 2nd week | Unit cell and primitive cell, Winger Seitz primitive cell |
| 3rd week | Symmetry operations for a 2D crystal, space group and point groups, Bravais lattices in 3D |
| 4th week | Revision, assignment and unit test |
| 5th week | Unit2: Crystal planes and Miller indices, Interplanar spacing. |
| September 1st week | Numericals based on miller indices and interplanar spacing, Atomic packing Fractions forcubic and hexagonal systems |
| 2nd week | Crystal Structure of Sodium Chloride, Diamond and Zinc sulphide, Numericals based on Miller Indices. |
| 3rd week | X-Ray diffraction, Braggs Law treatment, numericals based on Bragg’s law |
| 4th week | Assignment submission and Unit test. |
| October 1st week | Experimental X ray diffraction methods: Powder method, Laue method and Rotating Crystalmethod |
| 2nd week | K Space, Need of Reciprocal Lattice and its physical significance, reciprocal lattice vectors |
| 3rd week | Construction of Reciprocal Lattice, physical significance of Reciprocal Lattice |
| 4th week | Unit test and assignment submission. Numericals based on reciprocal lattice vector. |
| November 1st week | Properties of reciprocal Lattice, Reciprocal lattice to a simple cubic lattice, bcc and fcc |
| 2nd week | Specific heat of solids, Einstein’s theory of specific heat. |
| 3rd week | Diwali Vacations |
| 4th week | Debye model of specific heat of solids |
| 5th week | Numerical Problems |
| December 1st week | Revision, doubt class and unit test |