(EVEN)

Lesson plan

Name of College: Govt. College for Women, Shahzadpur (Ambala)
Academic Session: April –July (2021-22)
Class: B.Sc IInd Year
Paper: Sequence and Series BM-241
Teacher's Name: Natasha

Week	Dates	Topic to be covered	Academic/Activity to be organized	Assignments/Test
Week 1	08.04.2022-14.04.2022	Sequences		
Week 2	15.04.2022-21.04.2022	Sequences		Doubt Session, Test
Week 3	22.04.2022-28.04.2022	Infinite Series		
Week 4	29.04.2022-05.05.2022	Infinite Series		
Week 5	06.05.2022-12.05.2022	Infinite Series (Continued)		Doubt Session
Week 6	13.05.2022-19.05.2022	Infinite Series (Continued)		Test
Week 7	20.05.2022-26.05.2022	Alternating Series		
Week 8	27.05.2022-02.06.2022	Arbitrary Series		
Week 9	03.06.2022-09.06.2022	Arbitrary Series		Doubt Session
Week10	10.06.2022-16.06.2022	Topology of Real Numbers	Seminar	
Week11	17.06.2022-23.06.2022	Topology of Real Numbers		Doubt Session
Week12	24.06.2022-30.06.2022	Topology of Real Numbers		Test
Week13	31.06.2022-06.07.2022	Infinite Products		
Week14	07.07.2022-13.07.2022	Infinite Products		Test
Week15	14.07.2022-18.07.2022	Revision		

Natasha
Teacher's Sign
(NATASHA)

Natasha
HOD

Principal

(EVEN)

Lesson plan

Name of College: Govt. College for Women, Shahzadpur (Ambala)
Academic Session: April –July (2021-22)
Class: B.Sc IInd Year
Paper: BM -243 PROGRAMMING IN C & NUMERICAL METHODS
Teacher's Name: Natasha

Week	Dates	Topic to be covered	Academic/Activity to be organized	Assignments/Test
Week 1	08.04.2022-14.04.2022	Solution of Algebraic and Transcendental equations: Bisection method, Regula-Falsi method,		
Week 2	15.04.2022-21.04.2022	Secant method, Newton-Raphson's method. Newton's iterative method for finding pth root of a number		Test
Week 3	22.04.2022-28.04.2022	Order of convergence of above methods Simultaneous linear algebraic equations: Gauss-elimination method,		
Week 4	29.04.2022-05.05.2022	Gauss-Jordanmethod, Triangularization method (LU decomposition method). Crout's method,Cholesky Decomposition method.		Test
Week 5	06.05.2022-12.05.2022	Iterative method, Jacobi's method, Gauss-Seidal's method, Relaxation method.		
Week 6	13.05.2022-19.05.2022	Programmer's model of a computer, Algorithms, Flow charts		
Week 7	20.05.2022-26.05.2022	Data types, Operators and expressions, Input / outputs functions.		
Week 8	27.05.2022-02.06.2022	Decisions control structure: Decision statements, Logical and conditional statements, Implementation of Loops	Seminar	Test
Week 9	03.06.2022-09.06.2022	Switch Statement & Case control structures. Functions, Preprocessors and Arrays.		
Week10	10.06.2022-16.06.2022	Strings: Character Data Type, Standard String handling Functions		
Week11	17.06.2022-23.06.2022	Arithmetic Operations on Characters.		
Week12	24.06.2022-30.06.2022	Structures: Definition, using Structures		Test
Week13	31.06.2022-06.07.2022	use of Structures in Arrays and Arrays in Structures.		Assignment
Week14	07.07.2022-13.07.2022	Pointers: Pointers Data type, Pointers and Arrays, Pointers and Functions.		
Week15	14.07.2022-18.07.2022	Revision		

Teacher's Sign

(NATASHA)

HOD

Principal

Lesson Plan

Name of College : **Government College for Women, Shahzadpur (Ambala)**

Academic Session : **April-July (2021-22)**

Class : **B.Sc. 4th Semester Non-Med (4-6) Days**

Paper : **Statistical Physics (PH-401)**

Teacher's Name: **Dr. Raj Kumari**

Month	Dates	Topic to be covered	Academic/ Activity to be organized	Assignments/ Tests
April	8-9	**Unit-I Statistical Physics I** Introduction: Microscopic and macroscopic systems,		
	14-16	Events mutually exclusive, dependent and independent, Probability, statistical probability		
	21-23	A-priori probability and relation between them, Probability theorems, some probability considerations		
	28-30	Combinations possessing maximum probability and minimum probability, Tossing of 2,3 and any number of coins, permutations and combinations		**Assignment I**
May	5-7	Distributions of N (for N=2,3,4) distinguishable and indistinguishable particles in two boxes of equal size, Micro and macro states, thermodynamical probability		
	12-14	Constraints and accessible states, statistical fluctuations, General Distribution of distinguishable particles in compartments of different sizes	**Declamation Contest**	
	19-21	Conditions of equilibrium between two systems in thermal contact-beta entropy, Entropy and probability (Boltzmann's relation) & 1st Assignment		
	26-28	**Unit-II Statistical Physics II** Introduction: Postulates of statistical physics, Phase space, Division of phase space into cell, Three kinds of statistics, Basic approach in three statistics		**Assignment II**
June	2-4	M.B. applied to an ideal gas in equilibrium-energy distribution law, Speed distribution law, velocity distribution law		**Test I**
	9-11	Expression for average speed, r.m.s speed, Average velocity, r.m.s velocity, most probable energy, Mean energy for		

		Maxwell's distribution		
	16-18	**Unit-III Quantum Statistics** Need for quantum statistics, Bose-Einstein energy distribution law, Application of B.E. statistics of plank's radiation law B.E gas, Degeneracy and B.E condensation		
	23-25, 30	Fermi Dirac energy distribution law, F.D gas and degeneracy, Fermi energy and Fermi temperature, F.D energy distribution law, Fermi dirac gas and degeneracy, Fermi energy and Fermi temperature		**Test II**
July	1-2	F.D energy distribution law for electron gas in metals, Zero-point energy, Pressure and average speed of electron gas,	**Seminar by students**	
	7-9	Specific heat anomaly of metals and its solution, M.B. distribution as a limiting case of B.E and F.D distributions, Comparison of three statistics		
	14-16	**Unit-IV Theory of Specific Heat of Solids:** Dulong and petit law and its derivation from classical physics, Specific heat of low temperature		
	21-23	Einstein theory of specific heat, Criticism of Einstein theory, Debye model of specific heat of solids, its success and shortcomings		
	28-30	Comparison of Einstein and Debye theories, Numerical Problems, Queries		**Revision Test**

Teacher's Sign

HOD
(Dr. Raj Kumari)

Principal