Lesson Plan 2024-25 (Even Semester)

Teacher's Name - Ms. Meenakshi Dept. Mathematics

Class- B.A 1st Subject- Financial Mathematics

Semester- 2nd Paper Code- C24MDC219T

Month	Week	Topic	Assignment/Test
Feb 2025	1 st week	Simple Interest.	
	14-15 th Feb		
Feb 2025	2 nd week	Bank Discount, Compound Interest.	Assignment on
	17-22 nd Feb		Simple Interest.
Feb-March	3 rd week	Growth and depreciation of value and population.	
2025	24 Feb-01 st Mar		
March	4 th week	Annuity, future and present value of annuity.	
2025	03-08 th Mar		
March	5 th week	Holi Vacation	
2025	10-15 th Mar		
March	6 th week	Application of Annuity.	
2025	17-22 nd Mar		
March	7 ^h week	Data, Frequency, Grouped Data.	
2025	24-29 th Mar		
March-Apr	8 th week	Pictograph, Bar graph, Double Bar graph, Histogram	
2025	31 st Mar-05 th Apr		
Apr 2025	9 th week	Pie Chart.	Unit Test on
	07-12 th Apr		Data
			Arrangement.
Apr 2025	10 th week	Chance, Random Experiment, Equally Likely	
	14-19 th Apr	Outcome.	
Apr 2025	11 th week	Probability .	
	21-26 th Apr		
Apr 2025	12 th week	Revision	Assignment on
	28-30 th Apr		Probability.

- In case of a state holiday, casual leave or any college level function in the college campus the topic mentioned on that date will be taught on the next date and lesson plan should be treated to be adjusted likewise.
- The activities like monthly tests, written assignments, Quizzes and group discussions will be undertaken with in this lesson plan at regular intervals of time.

Department of Mathematics

Lesson Plan 2024-25 (Even Semester)

Teacher's Name - Ms. Meenakshi Dept. Mathematics

Class- B.A 3rd Subject- Linear Algebra

Semester- 6th Paper Code- BAMH-304(i)

Month	Week	Topic	Assignment/Test
Jan. 2025	1 st week	Discussion on the syllabus and pattern of examination of	
	01-04 th Jan	GJUS&T, Hisar. Discussion on the Scope of Linear Algebra.	
Jan. 2025	2 nd week	Vector spaces, subspaces, Sum and Direct sum of subspaces.	
	05-11 th Jan		
Jan. 2025	3 rd week	Linear span, Linearly Independent and dependent subsets of	
	13-18 th Jan	a vector space. Finitely generated vector space.	
Jan. 2025	4 th week	Existence theorem for basis of a finitely generated vector	Assignment on
	20-25 th Jan	space, Finite dimensional vector spaces.	Vector spaces and
			its properties
Jan-Feb	5 th week	Invariance of the number of elements of bases sets,	
2025	27 th Jan – 01 st Feb	Dimensions, Quotient space and its dimension.	
Feb 2025	6 th week	Homomorphism and isomorphism of vector spaces.	
	03-08 th Feb		
Feb 2025	7 th week	Linear transformations and linear forms on vector spaces,	
	10-15 th Feb	Vector space of all the linear transformations.	
Feb 2025	8 th week	Null Space, Range space of a linear transformation.	
	17-22 nd Feb		
Feb-March	9 th week	Rank and Nullity Theorem, Algebra of Linear Transformation.	
2025	24 Feb-01 st Mar		
March	10 th week	Minimal Polynomial of a linear transformation, Singular and	
2025	03-08 th March	non-singular linear transformations.	
March	11 th week	Holi Vacation.	
2025	10-15 th March		
March	12 th week	Matrix of a linear Transformation, Change of basis.	
2025	17-22 nd March		
March	13 th week	Eigen values and Eigen vectors of linear transformations.	Unit Test on
2025	24-29 th March		Linear
			transformations
March-Apr	14 th week	Inner product spaces, Cauchy-Schwarz inequality.	
2025	31 st Mar-05 th Apr		
Apr 2025	15 th week	Orthogonal vectors, Orthogonal complements.	Assignment on
	07-12 th Apr		Newton's laws
Apr 2025	16 th week	Orthogonal sets and Basis, Bessel's inequality for finite	
	14-19 th Apr	dimensional vector spaces.	
Apr 2025	17 th week	Gram-Schmidt Orthogonalization process.	
	21-26 th Apr		
Apr 2025	18 th week	Revision	
	28-30 th Apr		

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- The activities like monthly tests, written assignments, Quizzes and group discussions will be undertaken with in this lesson plan at regular intervals of time.

Lesson Plan 2024-25 (Even Semester)

Teacher's Name - Ms. Meenakshi Dept. Mathematics

Class- B.A 3rd Subject- Machanics-II

Semester- 6th Paper Code- BAMH-305(i)

Jan. 2025 1st week	Month	Week	Topic	Assignment/Test
Jan. 2025 2"d week 05-11" Jan 2025 3"d week 05-11" Jan 2025 3"d week 20-25" Jan 2025 3"d week 20-25" Jan 20-2	Jan. 2025	1 st week	Discussion on the syllabus and pattern of examination of	
Jan. 2025 3" week Conditions of equilibrium, trigonometric theorem's, 13-18" Jan conditions of equilibrium, trigonometric theorem's, 13-18" Jan conditions of equilibrium of co-planar forces (First, Second and Third form). Jan. 2025 4" week Priction: Definition of friction and basic laws, problems based on equilibrium of rods. Jan-Feb 5" week Centre of gravity: Basic concepts and definitions centre of gravity of a uniform rod. Feb 2025 6" week O3-08" Feb Iaw. Feb 2025 7" week Motion of a particle attached to an elastic string, Hooke's law. Feb 2025 8" week Motion of horizontal and vertical elastic strings, Definition of vork. Feb 2025 8" week Power and Energy, work done by a variable force, work done in stretching an elastic string, principle of work and energy, conservative system of forces. Feb-March 10" week O3-08" March Motion of a particle on smooth curves. March 11" week O3-08" March Motion of a particle on smooth curves. March 11" week O205 10-15" March Motion of a particle on smooth curves. March 12" week O205 10-15" March Motion of the outside and inside of a smooth vertical circle. 17-22" March March 13" week O205 12" March Motion on the outside and inside of a smooth vertical circle. 17-22" March 13" week O205 15" week O		l .	GJUS&T, Hisar. Discussion on the Scope of Mechanics.	
Jan. 2025 3"d week 13-18th Jan 2018tions of equilibrium, trigonometric theorem's, conditions of equilibrium of co-planar forces (First, Second and Third form). Jan. 2025 4th week 20-25th Jan based on equilibrium of friction and basic laws, problems based on equilibrium of rods. Jan-Feb 5th week 20-25th Jan - 01st Feb Gravity: Basic concepts and definitions centre of gravity of a uniform rod. Feb 2025 6th week Motion of a particle attached to an elastic string, Hooke's law. Feb 2025 7th week Motion of horizontal and vertical elastic strings, Definition of 10-15th Feb work. Feb 2025 8th week Power and Energy, work done by a variable force, work done in stretching an elastic string, principle of work and energy, conservative system of forces. Feb-March 10th week Motion of a particle on smooth curves. Feb-March 10th week Motion of a particle on smooth curves. March 10th week Motion of a particle on smooth vertical circle. March 12th week Motion of a particle on smooth vertical circle. March 12th week Motion on the outside and inside of a smooth vertical circle. March 12th week Motion on the outside and inside of a smooth vertical circle. March 12th week Motion on the outside and inside of a particle in a plane. March 12th week Motion on the outside and inside of a smooth vertical circle. March 12th week Motion on the outside and inside of a smooth vertical circle. March 12th week Motion on the outside and inside of a smooth vertical circle. March 12th week Motion on the outside and inside of a smooth vertical circle. March 12th week Motion on the outside and inside of a smooth vertical circle. March 12th week Motion on the outside and inside of a smooth vertical circle. March 12th week Motion on the outside and inside of a smooth vertical circle. March 12th week Motion on the outside and inside of a smooth vertical circle. March 12th week Motion on the outside and inside of a smooth vertical circle. March 12th week Motion of a particle, range and time of Potection of the trajectory. March 2th	Jan. 2025		Analytical conditions of equilibrium of co-planar forces:	
13-18 th Jan conditions of equilibrium of co-planar forces (First, Second and Third form).			Equilibrium of three forces.	
Jan. 2025 4th week 20-25th Jan based on equilibrium of rods. Jan-Feb 5th week 2025 27th Jan - 01st Feb 2025 27th Jan - 01st Feb 2025 6th week 30-30th Feb 2025 7th week 20-15th Feb 2025 7th week 20-15th Feb 2025 2th Jan - 01st Feb 2025 2th Jan -	Jan. 2025			Assignment on Co-
Jan. 2025 4th week 20-25th Jan based on equilibrium of rods. Jan-Feb 2075 5th week 27th Jan - 01th Feb 2025 6th week 30-38th Feb Jan - 01th Feb Jan		13-18 th Jan	conditions of equilibrium of co-planar forces (First, Second	planer forces and
20-25 th Jan based on equilibrium of rods. 5th week Centre of gravity: Basic concepts and definitions centre of gravity of a uniform rod.			and Third form).	their equilibirium.
Jan-Feb 27th Jan - 01st Feb 28th 27th Jan - 01st Feb 28th	Jan. 2025		Friction: Definition of friction and basic laws, problems	
2025 27 th Jan – 01 st Feb gravity of a uniform rod. Feb 2025 6 th week 03-08 th Feb law. Feb 2025 7 th week Motion of horizontal and vertical elastic strings, Definition of 10-15 th Feb work. Feb 2025 8 th week Power and Energy, work done by a variable force, work done in stretching an elastic string, principle of work and energy, conservative system of forces. Feb-March 9 th week Principle of conservation of energy, impulse of a constant force and a variable force, work done. March 10 th week Motion of a particle on smooth curves. March 11 th week March Motion on the outside and inside of a smooth vertical circle. 10-15 th March March 11 th week March 12 th week 22-29 th March 13 th week 24-29 th March 14 th week 2025 17-22 th March 14 th week 2025 13 th March March 14 th week 2025 15 th Apr Apr 2025 16 th week Directions of projection for a particle, range and time of 07-12 th Apr flight on an inclined plane Projectile motion. Apr 2025 16 th week Directions of projection for a given velocity and a given range. Apr 2025 18 th week 21-26 th Apr Range and time of flight down an inclined plane. Apr 2025 18 th week 21-26 th Apr Range and time of flight down an inclined plane. Apr 2025 18 th week Revision.			•	
Feb 2025 6th week 03-08th Feb law. Feb 2025 7th week 03-08th Feb law. Feb 2025 7th week 10-15th Feb work. Feb 2025 8th week 17-22th Feb work. Feb-March 24 Feb-D1st March 10th week 2025 10-15th March 12th week 2025 17-22th March 2025 12th March 12th week 2025 17-22th March 2025 12th March 2025 12th March 2025 12th March 2025 12th March 2025 24-29th March 2025 24-29th March 2025 24-29th March 2025 21-25th Apr 2025 2025 2025 2025 2025t	Jan-Feb		Centre of gravity: Basic concepts and definitions centre of	
Peb 2025 7th week Motion of horizontal and vertical elastic strings, Definition of work.	2025		gravity of a uniform rod.	
Feb 2025 7th week 10-15th Feb work. Feb 2025 8th week 17-22nd Feb in stretching an elastic string, principle of work and energy, conservative system of forces. Feb-March 2025 24 Feb-01th March 2025 03-08th March 2025 10-15th Week 2025 10-15th Week 2025 10-15th March 2025 17-22nd March 2025 18th week 2025 24-29th March 2025 24-29th March 2025 24-29th March 2025 15th week 21-20th Apr 2025 25th Week 21-20th Apr 2025 27-20th Apr 2025 28th Week 21-20th Apr 2025 29th Week 2025 20th Week 20th W	Feb 2025		Motion of a particle attached to an elastic string, Hooke's	
10-15 th Feb work. Power and Energy, work done by a variable force, work done in stretching an elastic string, principle of work and energy, conservative system of forces.			law.	
Feb 2025 8th week 17-22nd Feb in stretching an elastic string, principle of work and energy, conservative system of forces.	Feb 2025		Motion of horizontal and vertical elastic strings, Definition of	
17-22 nd Feb in stretching an elastic string, principle of work and energy, conservative system of forces. Feb-March 9th week Principle of conservation of energy, impulse of a constant force and a variable force, work done.			-	
Conservative system of forces. Feb-March 2025 24 Feb-O1 st Mar force and a variable force, work done. March 2025 03-08 th March March 2025 10-15 th March March 2025 10-15 th March March 2025 17-22 nd March March 2025 24-29 th March March 2025 24-29 th March March-Apr 2025 31 st Mar-05 th Apr Apr 2025 15 th week 07-12 th Apr flight on an inclined plane Apr 2025 17 th week 14-19 th Apr Frange. Apr 2025 18 th week 21-26 th Apr Apr Apr 2025 18 th week 21-26 th Apr Apr Apr 2025 18 th week 21-26 th Apr Apr Apr 2025 18 th week 21-26 th Apr	Feb 2025		Power and Energy, work done by a variable force, work done	
Feb-March 2025 24 Feb-01 st Mar force and a variable force, work done. March 2025 03-08 th March March 2025 10-15 th Mar Motion of a particle on smooth curves. March 2025 10-15 th March March 2025 17-22 nd March March 2025 18 th week 24-29 th March March-Apr 2025 215 th week 31 st Mar-05 th Apr Apr 2025 16 th week 14-19 th Apr Apr 2025 17 th week 21-26 th Apr Apr 2025 18 th week 21-26 th Apr		17-22 nd Feb	in stretching an elastic string, principle of work and energy,	
2025 24 Feb-01 st Mar force and a variable force, work done. March 10 th week			conservative system of forces.	
March 2025 03-08 th March March 11 th week 10-15 th March March 12 th week 2025 17-22 nd March March 13 th week 2025 17-22 nd March March 13 th week 2025 24-29 th March March 2025 24-29 th March March-Apr 2025 31 st Mar-05 th Apr Apr 2025 15 th week 07-12 th Apr Apr 2025 16 th week 14-19 th Apr Apr 2025 17 th week 21-26 th Apr Apr 2025 17 th week 21-26 th Apr Apr 2025 17 th week 21-26 th Apr Apr 2025 18 th week Revision.	Feb-March	9 th week	Principle of conservation of energy, impulse of a constant	
2025 03-08 th March March 11 th week 10-15 th March March 12 th week 17-22 nd March March 13 th week 2025 24-29 th March March 2025 15 th week 2025 24-29 th March March 2025 15 th week 2025 31 st Mar-05 th Apr Apr 2025 15 th week 14-19 th Apr Apr 2025 17 th week 21-26 th Apr Apr 2025 17 th week 21-26 th Apr Apr 2025 18 th week Revision.	2025		force and a variable force, work done.	
March 11 th week 10-15 th March Motion on the outside and inside of a smooth vertical circle. March 12 th week 17-22 nd March Motion on the outside and inside of a smooth vertical circle. March 13 th week 24-29 th March Cycloidal motion, Projectile motion of a particle in a plane. Unit Test on Power and Energy. March-Apr 24-29 th March Velocity at any point of the trajectory. March-Apr 2025 31 st Mar-05 th Apr Directions of projection for a particle, range and time of 07-12 th Apr flight on an inclined plane Projectile motion. Apr 2025 16 th week Directions of projection for a given velocity and a given range. Apr 2025 17 th week Range and time of flight down an inclined plane. Apr 2025 18 th week Revision.			Motion of a particle on smooth curves.	
2025 10-15 th March March 12 th week 17-22 nd March March 13 th week 2025 24-29 th March March-Apr 2025 31 st Mar-05 th Apr Apr 2025 15 th week 07-12 th Apr 16 th Meek 14-19 th Apr 17-2025 17 th week 21-26 th Apr Apr 2025 17 th week 21-26 th Apr Apr 2025 18 th week Revision.	2025			
March 2025 17-22 nd March March 13 th week Cycloidal motion, Projectile motion of a particle in a plane. March 2025 24-29 th March March-Apr 2025 31 st Mar-05 th Apr Apr 2025 15 th week Directions of projection for a particle, range and time of flight on an inclined plane Projectile motion. Apr 2025 15 th week Directions of projection for a given velocity and a given range. Apr 2025 15 th week Directions of projection for a given velocity and a given range. Apr 2025 15 th week Pare Range and time of flight down an inclined plane. Apr 2025 15 th week Range and time of flight down an inclined plane.			Holi Vacation	
2025 17-22 nd March March 13 th week 2025 24-29 th March March-Apr 2025 31 st Mar-05 th Apr Apr 2025 15 th week 07-12 th Apr Apr 2025 16 th week 14-19 th Apr Apr 2025 17 th week 2025 17 th week 2026 24-29 th March Apr 2025 16 th week 2026 25 26 th Apr Apr 2025 18 th week 21-26 th Apr				
March 2025 24-29 th March Cycloidal motion, Projectile motion of a particle in a plane. Unit Test on Power and Energy. March-Apr 2025 31 st Mar-05 th Apr Velocity at any point of the trajectory. Apr 2025 15 th week Directions of projection for a particle, range and time of flight on an inclined plane Projectile motion. Apr 2025 16 th week Directions of projection for a given velocity and a given range. Apr 2025 17 th week Range and time of flight down an inclined plane. Apr 2025 18 th week Revision.			Motion on the outside and inside of a smooth vertical circle.	
2025 24-29 th March March-Apr 2025 31 st Mar-05 th Apr Apr 2025 15 th week 07-12 th Apr Apr 2025 16 th week 14-19 th Apr Apr 2025 17 th week 12-26 th Apr Apr 2025 18 th week Revision.	2025			
March-Apr 2025 31 st Mar-05 th Apr Directions of projection for a particle, range and time of flight on an inclined plane Projectile motion. Apr 2025 15 th week Directions of projection for a given velocity and a given range. Apr 2025 16 th week Range and time of flight down an inclined plane. Apr 2025 17 th week Range and time of flight down an inclined plane. Apr 2025 18 th week Revision.			Cycloidal motion, Projectile motion of a particle in a plane.	Unit Test on Power
2025 31st Mar-05th Apr Apr 2025 15th week Directions of projection for a particle, range and time of flight on an inclined plane Projectile motion. Apr 2025 16th week Directions of projection for a given velocity and a given range. Apr 2025 17th week Range and time of flight down an inclined plane. Apr 2025 18th week Revision.				and Energy.
Apr 2025			Velocity at any point of the trajectory.	
O7-12 th Apr flight on an inclined plane Projectile motion. Apr 2025 16 th week Directions of projection for a given velocity and a given range. Apr 2025 17 th week Range and time of flight down an inclined plane. 21-26 th Apr Apr 2025 18 th week Revision.				
Apr 2025 16 th week Directions of projection for a given velocity and a given range. Apr 2025 17 th week Range and time of flight down an inclined plane. Apr 2025 18 th week Revision.	Apr 2025		Directions of projection for a particle, range and time of	Assignment on
Apr 2025			flight on an inclined plane	Projectile motion.
Apr 2025 17 th week Range and time of flight down an inclined plane. 21-26 th Apr Apr 2025 18 th week Revision.	Apr 2025		Directions of projection for a given velocity and a given	
21-26 th Apr Apr 2025 18 th week Revision.			range.	
Apr 2025 18 th week Revision.	Apr 2025		Range and time of flight down an inclined plane.	
28-30 th Apr	Apr 2025		Revision.	
		28-30 th Apr		

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Lesson Plan 2024-25 (Even Semester)

Teacher's Name - Ms. Meenakshi Dept. Mathematics

Class- B.A 3rd Subject- Real & Complex Analysis

Semester- 6th Paper Code- BAMH-306(i)

Month	Week	Topic	Assignment/Test
Jan. 2025	1 st week	Discussion on the syllabus and pattern of examination of	
	01-04 th Jan	GJUS&T, Hisar. Discussion on the Scope of Real & Complex	
		Analysis.	
Jan. 2025	2 nd week	Definition and examples of metric spaces, neighbourhoods.	
	05-11 th Jan		
Jan. 2025	3 rd week	Limit points, interior points, open and closed sets, closure	
	13-18 th Jan	and interior, boundary points.	
Jan. 2025	4 th week	Subspace of a metric space, equivalent metrics, Cauchy	Assignment on
	20-25 th Jan	sequences.	metric spaces and
	+h		its properties.
Jan-Feb	5 th week	Completeness, Cantor's intersection theorem.	
2025	27 th Jan – 01 st Feb		
Feb 2025	6 th week	Baire's category theorem, Contraction Principle, continuous	
	03-08 th Feb	functions.	
Feb 2025	7 th week	Uniform continuity, compactness for metric spaces.	
	10-15 th Feb		
Feb 2025	8 th week	Sequential compactness, Bolzano-Weierstrass Property.	
	17-22 nd Feb		
Feb-March	9 th week	Total boundedness, finite intersection property.	
2025	24 Feb-01 st Mar		
March	10 th week	Improper integrals and their convergence, comparison tests.	
2025	03-08 th March	Hall March 1	
March 2025	10-15 th March	Holi Vacation.	
	12 th week	Abollo and Divishlatic tosts. Evallentic internal	
March 2025	17-22 nd March	Abel's and Dirichlet's tests, Frullani's integral.	
	13 th week	Internal or a fination of a second of	Hait Tast an
March 2025	24-29 th March	Integral as a function of a parameter.	Unit Test on
2025	24-29 IVIdICII		Uniform continuity for metric space
March-Apr	14 th week	Topology of complex numbers: Trigonometric, exportemhal,	Tot metric space
2025	31 st Mar-05 th Apr	logarithmic and hyperbolic trigonometric functions.	
Apr 2025	15 th week	Extended complex plane. Continuity and differentiability of	Assignment on
Apr 2023	07-12 th Apr	complex functions. Analytic functions.	Topology of
	07-12 Api	Complex functions. Analytic functions.	complex numbers
Apr 2025	16 th week	Cauchy-Riemann equations. Construction of analytic	complex numbers
Αρι 2023	14-19 th Apr	functions-Introduction.	
Apr 2025	17 th week	Construction of analytic functions-direct method and Milne-	
Αρι 2023	21-26 th Apr	Thomson method.	
Apr 2025	18 th week	Revision.	
7301 2023	28-30 th Apr	Nevision.	
	20 30 Apr	1	

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Lesson Plan 2024-25 (Even Semester)

Teacher's Name - Ms. Meenakshi Dept. Mathematics

Class- B.A 3rd Subject- Solid Geometry

Semester- 6th Paper Code- BAMH-307(i)

Month	Week	Topic	Assignment/Test
Jan. 2025	1 st week	Discussion on the syllabus and pattern of examination of	
	01-04 th Jan	GJUS&T, Hisar. Discussion on the Scope of Solid Geometry.	
Jan. 2025	2 nd week	Central Conicoids: Equation of tangent plane.	
	05-11 th Jan		
Jan. 2025	3 rd week	Director sphere.	
	13-18 th Jan		
Jan. 2025	4 th week	Normal to the conicoids.	Assignment on
	20-25 th Jan		Central Conicoids.
Jan-Feb	5 th week	Polar plane of a point.	
2025	27 th Jan – 01 st Feb		
Feb 2025	6 th week	Enveloping cone of a coincoid.	
	03-08 th Feb		
Feb 2025	7 th week	Enveloping cylinder of a coincoid.	
	10-15 th Feb		
Feb 2025	8 th week	Paraboloids: Circular section.	
	17-22 nd Feb		
Feb-March	9 th week	Plane sections of conicoids	
2025	24 Feb-01 st Mar		
March	10 th week	Generating lines.	
2025	03-08 th March		
March	11 th week	Holi Vacation.	
2025	10-15 th March		
March	12 th week	Confocal conicoid.	
2025	17-22 nd March		
March	13 th week	Reduction of second degree equations.	Unit Test on
2025	24-29 th March		Enveloping Cone
			nad Cylinder of a
	+h		Conicoid.
March-Apr	14 th week	Revision	
2025	31 st Mar-05 th Apr		
Apr 2025	15 th week	Revision	Assignment on
	07-12 th Apr		Confocal Conicoid.
Apr 2025	16 th week	Revision	
	14-19 th Apr		
Apr 2025	17 th week	Revision	
	21-26 th Apr		
Apr 2025	18 th week	Revision	
	28-30 th Apr		

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Lesson Plan 2024-25 (Even Semester)

Teacher's Name - Ms. Meenakshi Dept. Mathematics

Class- B.A 2nd Subject- Machanics-I

Semester- 4th Paper Code- BAMH-205

Month	Week	Topic	Assignment/Test
Jan. 2025	1 st week	Discussion on the syllabus and pattern of examination of	
	01-04 th Jan	GJUS&T, Hisar. Discussion on the Scope of Mechanics.	
Jan. 2025	2 nd week	Forces in two dimension (co-planner), triangle law and	
	05-11 th Jan	polygon law of forces,	
Jan. 2025	3 rd week 13-18 th Jan	Lemi's theorem, resultant of concurrent and coplanar forces	
Jan. 2025	4 th week 20-25 th Jan	conditions of equilibrium of concurrent concurrent forces, parallel and unequal unlike parallel forces	Assignment on forces and their Applications
Jan-Feb 2025	5 th week 27 th Jan – 01 st Feb	resultant and centre of parallel forces	
Feb 2025	6 th week 03-08 th Feb	Moments and Couples.	
Feb 2025	7 th week 10-15 th Feb	Forces in three dimensions, Poinset's central axis	
Feb 2025	8 th week 17-22 nd Feb	conditions for the reduction of a general system of forces in space to a single force	
Feb-March	9 th week	equations of central axis, Wrenches: Definition and basic	
2025	24 Feb-01 st Mar	laws	
March	10 th week	resultant wrench of two wrenches, Velocity and acceleration	
2025	03-08 th March	along a plane curve	
March 2025	11 th week 10-15 th March	Holi Vacation.	
March	12 th week	Component of velocity and acceleration in radiant,	
2025	17-22 nd March	transverse, tangential and normal directions.	
March 2025	13 th week 24-29 th March	Relative velocity and acceleration, Simple harmonic motion (SHM).	Unit Test on Wrenches and its basic laws
March-Apr	14 th week	Newton's laws of motion, Central Orbits, differential	
2025	31 st Mar-05 th Apr	equations of Central Orbits in polar form and in pedal form, areal velocity	
Apr 2025	15 th week 07-12 th Apr	elliptic, hyperbolic and parabolic orbit, Kepler's laws of planetary motion	Assignment on Newton's laws
Apr 2025	16 th week 14-19 th Apr	equivalence of Kepler's laws of planetary motion and Newton's law of gravitation	
Apr 2025	17 th week 21-26 th Apr	motion under the inverse square law	
Apr 2025	18 th week 28-30 th Apr	Revision	

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Lesson Plan 2024-25 (Even Semester)

Teacher's Name - Ms. Meenakshi Dept. Mathematics

Class- B.A 2nd Subject-Partial Differential Equations & Special Functions

Semester- 4th Paper Code- BAMH-204

Month	Week	Topic	Assignment/Test
Jan. 2025	1 st week	Discussion on the syllabus and pattern of examination of	
	01-04 th Jan	GJUS&T, Hisar. Discussion on the Scope of PDE.	
Jan. 2025	2 nd week	Partial differential equations: Formation, order and	
	05-11 th Jan	degree,	
Jan. 2025	3 rd week	Linear and Non-Linear Partial differential equations of the	
	13-18 th Jan	first order: Complete solution	
Jan. 2025	4 th week	singular solution, General solution	Assignment on Partail
	20-25 th Jan		Differential Equations
Jan-Feb	5 th week	Solution of Lagrange's linear equations	
2025	27 th Jan – 01 st Feb		
Feb 2025	6 th week	Charpit's general method of solution	
	03-08 th Feb		
Feb 2025	7 th week	Linear partial differential equations of second and higher	
	10-15 th Feb	orders, Linear and non-linear homogeneous and non-	
		homogeneous equations with constant coefficients	
Feb 2025	8 th week	Partial differential equation with variable coefficients	
	17-22 nd Feb	reducible to equations with constant coefficients, their	
		complimentary functions and particular integrals	
Feb-	9 th week	Equations reducible to linear equations with constant	
March	24 Feb-01 st Mar	coefficients	
2025	AL.		
March	10 th week	Classification of linear partial differential equations of	
2025	03-08 th March	second order, hyperbolic, parabolic and elliptic types	
March	11 th week	Holi Vacation.	
2025	10-15 th March		
March	12 th week	Reduction of second order linear partial differential	
2025	17-22 nd March	equations to Canonical (Normal) forms and their	
	40th	solutions.	
March	13 th week	Cauchy's problem for second order partial differential	Unit Test on Linear PDE of
2025	24-29 th March	equations	second and higher orders
March-	14 th week	Characteristic equations and characteristic curves of	
Apr 2025	31 st Mar-05 th Apr	second order partial differential equation	
Apr 2025	15 th week	Series solution of differential equations - Power series	
A 2025	07-12 th Apr	method Provide and the Provide and the street of the stree	
Apr 2025	16 th week	Bessel equation and its solution: Bessel functions and	
	14-19 th Apr	their properties- Recurrence relations and generating	
Amr. 2025	17 th	functions.	Assignment on Descrip-
Apr 2025	17 th week	Legendre differential equation and its solution: Legendre	Assignment on Bessel's
Amr. 2025	21-26 th Apr 18 th week	function and its properties	equations
Apr 2025		Recurrence Relations and generating functions.	
	28-30 th Apr	Rodrigues' Formula for Legendre Polynomial	

- In case of a state holiday, casual leave or any college level function in the college campus the topic mentioned on that date will be taught on the next date and lesson plan should be treated to be adjusted likewise.
- The activities like monthly tests, written assignments, Quizzes and group discussions will be undertaken with in this lesson plan at regular intervals of time.

Lesson Plan 2024-25 (Even Semester)

Teacher's Name - Ms. Meenakshi Dept. Mathematics

Class- B.A 2nd Subject- Mathematics Lab (Practical-IV)

Semester- 4th Paper Code- BAMH(P)-206

Jan. 2025 1st week 01-04th Jan Hisar. Discussion on the syllabus and pattern of examination of GJUS&T, Hisar. Discussion on the Importance and Scope of C language. 2st week 05-11th Jan Jan. 2025 3st week 13-18th Jan Jan. 2025 4st week 20-25th Jan Jan-Feb 2025 5st week 20-25th Jan Jan-Feb 2025 7st week 20-25th Jan Jan-O1st Feb Revision. 7st week 20-25th Jan Jan-O1st Feb Revision. Program to solve the system of linear equations using Gauss-Seidal iteration method Revision. Program to solve the system of linear equations using Gauss-Jordan method Revision. Program to solve the system of linear equations using Gauss-Jordan method Revision. Program to solve the system of linear equations using Gauss-Jordan method Revision. Program to find the largest eigen value of a matrix by Power method. 10-15th Feb Reb-March 10-15th Feb Reb-March 2025 24 Feb-01st March March 21th week 2025 24 Feb-01st March March 2025 10-15th March March 2025 10-15th March March 2025 11-15th March March 2025 11-22st March March 2025 21-22st March March 21st week 2025 22-29th March March 22st Mar-O5th Apr Apr 2025 21st week 21st week 21st week 22st week 21st week 22st	Month	Week	Topic	
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	Apr 2025		Program to find numerical solution of ordinary differential equations	
21-26 th Apr by Runge-Kutta method		21-26 th Apr		
Apr 2025 18 th week Revision.	Apr 2025			
28-30 th Apr				

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Meendraht

Department of Mathematics