laths study pla	an (6 pm	to 7:30 Pm)		
			Lecture	
DAY	Date	Topic Name	Number	Lecture Details
TUESDAY	1-Mar		_	Number System, sets: Introduction, Sets and their
			1	Representations, Empty Set, Finite and Infinite Sets, Equal
				Sets
WEDNESDAY	2-Mar		2	Subsets, Power Set, Universal Set. Venn Diagrams,
				Operations on Sets, Complement of a Set
				Different properties of inequalities & Wavy Curve Method
THURSDAY	3-Mar	Desite March	3	its application, Miscellanious Problems on inequalities.
		Basic Math		
MONDAY	7-Mar	_	4	Modulus & its properties,
TUESDAY	8-Mar		5	Problems based on Modulus & its Applications
WEDNESDAY	9-Mar		6	Introduction of Logarithms and its properties
THURSDAY	10-Mar		7	Problems on Logarithms & logarithmic equations
MONDAY	14-Mar		8	logarithmic inequalities.
TUESDAY	15-Mar	_	9	REMAINDER THEOREM &FACTORIZATION
WEDNESDAY	16-Mar		10	Evaluation of Determinants & its basic properties.
				Introduction, Angles, fundamental relations between
THURSDAY	17-Mar			trigonometric ratios. Trigonometric Ratios for complemen
		_	1	supplementry and allied angles.
	21-Mar			Trigonometric Ratios of Compound Angles. Product/sum of
MONDAY			2	the Sines/Cosines in Terms of sum/Product.
TUESDAY	22-Mar	TRIGONOMETRY (TRI)	_	Trigonometry Ratio of the Multiple and sum Multiple.
		<b>_</b>  :	3	Problems on multiple and submultiple angles
WEDNESDAY	23-Mar			Maximum and Minimum Values of the Trigonometric
		_	4	Functions & related problems.
THURSDAY	24-Mar			Identities, Conditional Identities and Some Important serie
			5	
MONDAY	28-Mar		6	Trigonometric Series.
TUESDAY	29-Mar			General Solution of Trigonometric Equation, special cases.
			1	
WEDNESDAY	30-Mar	TRIGONOMETRIC	2	Type of Trigonometric Equations Part - 1
THURSDAY	31-Mar	EQUATION :	3	Type of Trigonometric Equations Part - 2
MONDAY	4-Apr			Extreme Values problems, Trigonometric Inequations,
			4	Simultaneous trigonometric Equations.
TUESDAY	5-Apr	_	1	Definition of relation & types of relation.
WEDNESDAY	6-Apr		2	Examples on Relations & Its classification
THURSDAY	7-Apr		_	Introduction of Function. & categorization & Number of
			3	possible functions
MONDAY	11-Apr		4	Type of Functions (G.I.F. & F.P.F)
TUESDAY	12-Apr		5	Sign(x), logrithmic function & other basics functions
WEDNESDAY	13-Apr		6	Graphs of basic functions and its applications
THURSDAY	14-Apr			Algebra of functions & methods to determine domain of
		RELATION AND	7	function
MONDAY	18-Apr	FUNCTION	8	Methods to determine range of functions
TUESDAY	19-Apr	_	9	Identical function, Classification of Function,
WEDNESDAY	20-Apr		10	Composite functions with examples.
THURSDAY	21-Apr		11	Odd & Even Functions & application,
MONDAY	25-Apr		12	Periodic Functions
TUESDAY	26-Apr		13	Inverse of a Function.
WEDNESDAY	27-Apr		14	Elementary transformations on graphs
THURSDAY	28-Apr		15	Problems based on elementary transformations
MONDAY	2-May		16	Functional Equation.
				Introduction of existence of inverse of a function to define
MERNICO				domain & range of $\sin^{-1}x$ , $\cos^{-1}x$ , $\tan^{-1}x$ , $\sec^{-1}x$ , $\csc^{-1}x$
WEDNESDAY	4-May			cot <sup>-1</sup> x., Graph of Inverse Trigonometric Functions, Propert
		INVERSE	1	I and Properties-II
THURSDAY	5-May	TRIGONOMETRIC	2	Properties of ITF Part - 1

MONDAY	9-May	FUNCTIONS	3	Properties- Part - 2
TUESDAY	10-May	_	4	Properties-Part - 3
WEDNESDAY	11-May	-	5	Properties- Part - 4
THURSDAY	12-May	_	6	Equation and series Involving ITF,
MONDAY	16-May		1	Definition & Existence of Limit with examples
		-		Algebra and properties of limits with examples &
TUESDAY	17-May		2	introduction of indeterminate forms
WEDNESDAY	18-May		3	Methods of evaluation of limits by
THURSDAY	19-May		4	Limit of forms $(f(x))^{g(x)}$ & related indeterminate forms
monopai	15 May		-	Use of Sandwich Theorem & Newton-leibnitz rule to decide
MONDAY	23-May		5	limit,
				Introduction of continuity, continuity at a point, Continuity in
TUESDAY	24-May		6	an interval
		LIMIT, CONTINUTY		Properties of continuity, Geometrical meaning of continuty,
		DIFFERENTIABILITY		and problems. Algebra of continuous function, continuty of
WEDNESDAY	25-May			
			7	composite function, Intermediate value theorem.
				Duratice of Missellandous supertions on Limit and Continuity
THURSDAY	26-May			Practice of Miscellaneous questions on Limit and Continuity,
			8	
MONDAY	30-May			Introduction of Differentiability, Geometrical meaning of the
		-	9	derivative.
TUESDAY	31-May			Relation between differentiability and continuty, Algebra of
		-	10	differentiable function.
WEDNESDAY	1-Jun		11	Functional Equation & mixed problems.
THURSDAY	2-Jun	-	1	Different method of Differentiation.
				Rules of Differentiation, Differentiation of Inverse function
MONDAY	6-Jun	MOD		and the Derivatives, Differentiation of Function
enen	0-3411			Parametrically. Logarithmic Differentiation, Implicit function,
			2	Newton Leibniz Rule.
TUESDAY	7-Jun		1	Derivatives as a Rate Measure.
WEDNESDAY	8-Jun		2	Tangent, Normal
THURSDAY	9-Jun			Angle Between curves length of tanget normal & Subtangent
THORSDAT	9-Juli		3	& Subnormal
MONDAY	13-Jun		4	Rolle's Theorem and means value theorem,
TUESDAY	14-Jun	APPLICATION OF	5	Monotonacity of function, Monotonacity in an interval.
WEDNESDAY	15-Jun		6	Miscellanious problem on Monotonacity,
THURSDAY	46.1	DERIVATIVES		Greatest and least value of function, establishing inequiatly
THURSDAY	16-Jun		7	and concavity.
				General Introduction of Local Maxima, Local Minima. Global
MONDAY	20-Jun		8	Maxima, Global Minima
TUESDAY	21-Jun		9	Miscellanious problem on Maxima and minima
WEDNESDAY	22-Jun	1	10	Miscellanious Problems.
				Introduction Indefinite Integration as inverse of
THURSDAY	23-Jun		1	differentiation. (Basic Direct Method)
		1		Rules of I.I., Integration by substitution method (Direct &
MONDAY	27-Jun		2	Indirect).
TUESDAY	28-Jun	1	3	Discussion of DPP-2, Integration by Partial Fraction
WEDNESDAY	29-Jun	INDEFINITE	4	Integration by parts & its application
THURSDAY	30-Jun	INTERGRAL	5	Problems based on all methods of integration
MONDAY	4-Jul	-	6	Integration of Algebraic rational and irrational functions,
TUESDAY	5-Jul	1	7	Integration of different Trigonometric functions
WEDNESDAY	6-Jul	1	8	Discussion of problems based on
THURSDAY	7-Jul	1	9	Successive Reduction in Integration.
MONDAY	7-Jul 11-Jul		1	Definite Integration using indefinite integral.
TUESDAY	11-Jul 12-Jul	1	2	General Properties of DI.
	+	-		
WEDNESDAY	13-Jul	4	3	Definite Integral of Piecewise Continuous Function.
THURSDAY	14-Jul	DEFINITE INTEGRAL	4	Properties of 4,5,6,7,
MONDAY	18-Jul		_	Periodic Properties of DI, Differentiation of definite integral
		4	5	
		Ì	6	Approximation of definite integral
TUESDAY	19-Jul	4	-	† · ·
TUESDAY WEDNESDAY THURSDAY	19-Jul 20-Jul 21-Jul		7	Definite integral limit as a sum,  Area of region without use of Definite integration.

MONDAY	25-Jul	]	2	Curves Sketching.
TUESDAY	26-Jul	AREA UNDER CURVE	3	Inequality in a Area and area bounded by the curve itself.
WEDNESDAY	27-Jul	-	4	Application of concept of Area,
THURSDAY	28-Jul		1	Order & Degree & Formation of the differential equation.
HIONSDAT	20-301	-		Solution of the differential equation by different method,
MONDAY	1-Aug		2	Variable Separation.
		-		•
TUESDAY	2-Aug	DIFFERENTIAL	2	Homogeneous Differential Equation & Linear Differential
		EQUATION	3	Equation.
WEDNESDAY	3-Aug		4	4, General form of Variable separation & Applications of first-
THURCDAY	4.4	-	4	order differential equation.
THURSDAY	4-Aug	-	5	Orthogonal Trajectory & Geometrical Application.
MONDAY	8-Aug		6	Other applications of differential equation
TUESDAY	9-Aug	4	1	Roots, relavtion between roots & coefficients
WEDNESDAY	10-Aug	_	2	Properties and nature of roots of quadratic equations
TUESDAY	16-Aug		•	Condition of two roots/one root common of two quadratic
	4= .	QUADRATIC	3	equations
WEDNESDAY	17-Aug	EQUATION:	4	Quadratic Expression,
THURSDAY	18-Aug	4	5	Location of the roots
MONDAY	22-Aug	4	6	Quadratic Inequations, interval of roots
TUESDAY	23-Aug		_	Theory of Polynomial Equation& Miscellaneous Problems.
			7	
WEDNESDAY	24-Aug	_	1	Arithmetic Progression (A.P) sum and Properties of A.P,
THURSDAY	25-Aug	_	2	Geometric Progression (G.P), Sum and Properties G.P
MONDAY	29-Aug			Introduction of A.M.,G.M. & H.M Insertion of different Means
		_	3	Between two Numbers. Discussion of
TUESDAY	30-Aug	Sequence & series	4	Arithmetic-Geometric Series. & its application
WEDNESDAY	31-Aug		_	Sum of Miscellaneous Series. (Method of difference and Vn
		_	5	method)
THURSDAY	1-Sep			Inequalities based on A.M., G.M. & H.M, nth mean, weighted
	•	_	6	A.M, G.M, H.M.
MONDAY	5-Sep		7	Misl. Problems on Seq and series
TUESDAY	6-Sep			Binomial Expansion & it's General Term, Greatest Bnomial
		_	1	Coefficient.
				Terms free of radicals, Terms free of variables, Terms with
WEDNESDAY	7-Sep		_	absolute maximum value, Standard Expansions, Questions
		_	2	related with integral and fractional part.
THURSDAY	8-Sep	BINOMIAL THEOREM	_	Series of binomial Coefficient, Sum of the series by the use of
	•	_	3	Differentation, Integration.
MONDAY	12-Sep		_	Sum of the series of coefficients by comparing the coefficients
		_	4	of some power of x in an expansion
TUESDAY	13-Sep		_	Checking Divisibility & Finding Remainder and, Binomial
			5	Theorem for any Rational Index, Multinomial Expansion
WEDNESDAY	14-Sep		_	Fundamental Principle of Counting, Definition of Permutation
		_	1	& combination,
THURSDAY	15-Sep		2	Permutation of things under different conditions,
MONDAY	19-Sep			Circular Permutation & General Selection, Restricted
		Permutation &	3	Selection, Problems based on above concepts
TUESDAY	20-Sep	combination	4	All possible selections, Number of Divisors
WEDNESDAY	21-Sep		5	Exponent of Prime p in N!, & related concepts
THURSDAY	22-Sep	_	6	Division and distribution of Different and Identical things.
MONDAY	26-Sep	_	7	Multinomial Theorem, , Problems on derrangement
TUESDAY	27-Sep	]	8	Basic Probability, Set Theory Approaches to Probability
WEDNESDAY	28-Sep		9	Misc. problems on P&C
THURSDAY	29-Sep			Argument, Modulus Conjugate of a C.N. And its Different
		]	1	forms
MONDAY	3-Oct			Algebra of Complex Number and it's Geometrical
		]	2	Representation,
TUESDAY	4-Oct			Properties of Argument, Modulus, Conjugate and its
. 0203/11	. 500	]	3	Application.
THURSDAY	6-Oct	COMPLEX NUMBER:	4	Square Root of a Complex Number,
MONDAY	10-Oct			DE-Moiver's Theorem, Cube roots, Nth Roots of unity and its
		]	5	application

TUESDAY	11-Oct		6	Concept of Rotation, Geometrical Application in Complex Plane.
WEDNESDAY	12-Oct	1	7	Problems based on Geometrical Application
THURSDAY	13-Oct	-	8	Misc. Problems on complex number
MONDAY	17-Oct		1	Defination & Types, algebra of the matrices.
TUESDAY	18-Oct	1	2	
TUESDAY	18-00	_		Special Matrices Determinants & Branarties of Determinant
WEDNESDAY	19-Oct		3	Special Matrices , Determinants & Properties of Determinant
THURSDAY	20-Oct	]	4	Special Determinants
		MATRICES &		Differentiation and Integration on determinants, Cramer's
THURSDAY	27-Oct	DETERMINANTS	5	rule, Solution of Linear Equation& Mixed Problems.
MONDAY	31-Oct	1	6	Adjoint 9 inverse of a Square Matrix
WONDAT	31-000	1	0	Adjoint & inverse of a Square Matrix,  Evaluation of inverse of a matrix by basic transformations,
TUESDAY	1-Nov		7	System of Linear Simultaneous Equations
WEDNIECDAY	2 Nov	1	8	
WEDNESDAY	2-Nov			Orthogonal, unitary, idempotant & nilpotant matrices
THURSDAY	3-Nov	_	1	Introduction of Vectors and Algebra Vectors.
MONDAY	7-Nov			Linear Comnbinations, Collinearity and coplanarity, Section
			2	formula.
TUESDAY	8-Nov			Scalar Product of two vectors (Dot Product), Projection of a
	00	VECTOR	3	Vector.
WEDNESDAY	9-Nov			Vector Product (Cross), Properties, Scalar triple product &
WEDNESDAT	9-NOV		4	Properties.
	40.00	-		Vector Triple product, Reciprocal system of vectors, Vector
THURSDAY	10-Nov		5	Equation
				Point, Direction Ratio, Direction cosine of a directed line
MONDAY	14-Nov		1	segment.
TUESDAY	15-Nov	1	2	Angle Between two lines, Projection of line segment
WEDNESDAY	16-Nov	-	3	Equation of straight line in different forms,
WEDNESDAT	10-1404	1	,	
THURSDAY	17-Nov	THREE DIMENSIONAL	4	Equation of plane in different forms, Angle between to forms
		GEOMETRY	4	
MONDAY	21-Nov	_	5	Perpendicular distance, Family of planes, Bysectot plane
TUESDAY	22-Nov			Intersection of line & plane, Equation of straight line
	23-Nov		6	intersecting two given line,
WEDNESDAY				Shortest distance between two skew line and Miscellaneous
WEDNESDA	25 1107		7	problem on 3D,
THURSDAY	24-Nov			Co-ordinates of a Point, Distance Formulae, Section formule
MONSDAT	24-1404		1	
MONDAY	28-Nov		2	related problems
		]		Centroid, circumcentre, orthocentre, incentre, excentres &
TUESDAY	29-Nov		3	Area of a triangle whose vertices are given
WEDNESDAY	30-Nov	1	4	Related problems
		1		Locus, Slope of a straight lines, Intercepts on axes made by a
THURSDAY	1-Dec		5	straight line and angle between straight lines
		-		Different forms of straight lines, Length of perpendicular from
MONDAY	5-Dec		6	
		STRAIGHT LINE :	0	a point to a straight line
TUESDAY	6-Dec		_	Foot of perpendicular form a point to a line, Image of a point
		-	7	about a line
WEDNESDAY	7-Dec			Equation of reflected ray, Concurrency of line and Family of
			8	Lines, Introduction of angle Bisectors & problems
THURSDAY	8-Dec			Problem on Angle Bisector, Shifting of origin & Rotation of
MORSDAT	8-Dec		9	Axes
MONDAY	13 Da-			Pair of Straight Lines, Second Degree General Equation, angle
MONDAY	12-Dec		10	between pair of lines,
		1		Second Degree Homogeneous Equation and Homogenization
TUESDAY	13-Dec		11	
WEDNESDAY	14-Dec		1	Equation of Circle in Different Forms
		1		Parametric Equation of a Circle, Intercepts made by a circle
THURSDAY	15-Dec		2	on axes.
		1	۷	Position of a point w.r.t a Circle and position of a line wrt a
	19-Dec		9	•
MONDAY				
TUESDAY	20-Dec	-	3 4	circle. Tangent & Normal- different forms,  Power of point, Length of Tangent, Director Circle.

WEDNESDAY	21-Dec	CIRCLE:	5	Chords of Contact, Chord Bisected at a Given Point, Pair of Tangents,
				Position of Two Circles w.r.t each other, Common Tangents
THURSDAY	22-Dec			(Geometry) & Common Chord, Length of Common Chord.
			6	(Geometry) & common enora, tength of common enora.
MONDAY	26-Dec	-	7	Problems based on above concepts
WONDAT	20-560	_		Angle Between two Circles, Orthogonal Circles & Radical Axis.
TUESDAY	27-Dec			Radical centre. Family of Circles & Related problems
IOLSDAI	27-060		8	Radical Centre. Failing of Circles & Related problems
			0	Introduction of Conic & Standard Forms of the Parabola.
WEDNESDAY	28-Dec		1	
		_	1	Vertex focus, Directrix and Latus Rectum.
THURSDAY	29-Dec			Position of a Point, Parametric Form and Focal Distance,
			2	Length of Focal Chord.
MONDAY	2-Jan		3	Position of a line w.r.t. Parabola.
TUESDAY	3-Jan			Tangents at a Point, Properties related with different forms of
		PARABOLA	4	tangent to a parabola.
WEDNESDAY	4-Jan		_	Pair of Tangents, Chord of Contact, Equation of the Chord
			5	whose MID-Point is given.
THURSDAY	5-Jan		6	Equation of Normal to the Parabola and It's Application
MONDAY	9-Jan			Condition for Normals to a parabola and problems based on
	3 34		7	properties of normals.
TUESDAY	10-Jan			More Properties of the Parabola & Problems based on its
TOLSDAT	10 3411		8	properties
WEDNESDAY	11-Jan			Standard equation of Ellipse and it's related discussions,
WEDNESDAT	11-Jaii		1	General Equation of Ellipse.
THURCDAY	12 lan			Parametric Equation, Auxiliary circle, Eccentric angle,
THURSDAY	12-Jan		2	Equation of Chord, Focal Distance, Focal Chord.
	46.1	FLLIDGE		Position of a point and a line w.r.t. Ellipse and Different form
MONDAY	16-Jan	ELLIPSE	3	of Tangents, Director Circle.
				Equation of Chord of Contact, Chord with Mid Point & Pair of
TUESDAY	17-Jan		4	Tangents.
WEDNESDAY	18-Jan		5	Equation of Normal and Related Properties.
THURSDAY	19-Jan		6	Special properties of Ellipse, (Optional),
				Standard equation of Hyperbola & it's Conjugate
MONDAY	23-Jan			Hyperbola.Parametric form, Auxiliary circle, Parametric angle,
			1	Equation of Chord, Focal Distance, Focal Chord.
		<del>-</del>		Position of a point and a line w.r.t. Hyperbola and Different
TUESDAY	24-Jan	HYPERBOLA	2	form of Tangents, Director Circle.
		-		Tangent & Normal. Chords of Contact, Chord with given
WEDNESDAY	25-Jan		3	Midpoint and pair of Tangents.
MONDAY	30-Jan	-	4	Asymptotes & Rectangular Hyperbola.
			-	Definition & Problems based on permutation and
TUESDAY	31-Jan		1	combination
WEDNESDAY	1-Feb		2	Odds in favour and odds against. Set Theoretic Principles
THURSDAY	2-Feb	PROBABILITY	3	Conditional Probability & independent events
MONDAY	6-Feb	1	4	Total Probability , Bay Theorem
TUESDAY	7-Feb	1	5	Binomial Distribution for successive events.
. 0100/11	7.00		+ -	Elementary formula related to sides and angles of Triangle,
				Sine Rule, Cosine Rule, Projection formula, Napier's Analogy,
	8-Feb			
WEDNIECDAY			1	Half Angle formula, Area of triangle, m-n theorem
WEDNESDAY	0.5-1-	PROPERTY OF	2	Circum single Evenibed single Outhorsette Institute
THURSDAY	9-Feb	TRIANGLES:		Circum circle, Excribed circle, Orthocentre, Incircle,
MONDAY	13-Feb			centroid and medians of a triangle, Bisector of angles of
MONDAY	46 = :	4	3	triangles, Excentral Triangles, Pedal
TUESDAY	14-Feb	4	4	Triangles, Distance between special points,
	15-Feb		5	solution of triangle, Inscribed & Circumscribed polygons
WEDNESDAY			-	
WEDNESDAY THURSDAY	16-Feb	CTATICTICS C	1	MEASSURE OF CENTRAL TENDENCY
	16-Feb 20-Feb	-STATISTICS &	2	MEASSURE OF CENTRAL TENDENCY MEASSURE OF DISPERSION
THURSDAY		STATISTICS & - MATHEMATICAL - REASONING		