3							
4	IED MATE	N C JINDAL PUBLIC SCHOOL		PREPARED E		No	
5	nters	Chapter Topic/Sub Topic	Term		End Date	of 7	,
6	lumbers	 Express decimal numbers in binary system ● Express binary numbers in decimal system 		7/1/2025	7/3/2025	/	
7	ıte.	•Define set as well-defined collection of objects● Represent a set in Roster form and set builder form					
8	its	•Identify different types of sets on the basis of number of elements in the set,Differentiate between					
9		equal set and equivalence set, subsets, subsets as intervals, power set elements, venn-diagram	1	7/7/2025	7/11/2025	7	
10		problem solving using venn diagram,operations on sets to solve practical problems					
11	tions	specific arrangement of elements in a pair, Cartesian product of two sets, the number of elements					
12		in a Cartesian product of two sets, relation as a subset of Cartesian product,					
13		find domain and range of a relation	1	7/14/2025	7/19/2025	8	
14	tions	function using dependent and independent variable, domain, range and co-domain of a given function					
15		various types of function,domain,co-domain and range and representation of function graphically					
16							
17	arithm a	Relate indices and logarithm /antilogarithm • Find logarithm and antilogarithms of given number •	1	7/21/2025	7/25/2025	7	
18 19	arithm	Applications of rules of indices ● Introduction of logarithm and antilogarithm ● Common and Natural logarithm, Laws and properties of logarithms ● Enlist the laws and properties of logarithms					
20		Apply laws of logarithm ● Fundamental laws of logarithm , Simple applications of logarithm and		7/00/0005	0/0/0005		
21	tive Aptif	antilogarithm ● Use logarithm in different application ude		7/28/2025	8/2/2025	8	
23	- 4-11	 Evaluate the angular value of a minute ● Calculate the angle formed between two hands of clock 					
24 25		at given time ● Calculate the time for which hands of clock meet ● Determine Odd days in a month/ year/ century ● Decode the day for the given date	1	8/4/2025	8/8/2025	7	
26 27	rk and	Establish the relationship between work and time					
28		w.r.t. time ● Calculate the time taken/ distance covered/ Work done from the given data Create suitable seating plan/ draft as per given conditions (Linear/circular)					
29 30	nent	Locate the position of a person in a seating arrangement	Щ				
0.4	e and	Differentiate between sequence and series , Identify Arithmetic Progression (AP)	1	8/11/2025	8/14/2025	5	
32 33		Establish the formulae of finding n th term and sum of n terms, Solve application problems based on AP Find arithmetic mean (AM) of two positive numbers, G.P,n th term and sum of n terms of a given G.P					
34		Applications of G.P,Geometric Mean of two positive integers,Problems based on relation between					
35 36		AM and GM, Apply appropriate formulas of AP and GP to solve application	Н				-
37	asoning	Solve logical problems involving odd man out, syllogism, blood relation and coding decoding	1	8/18/2025	8/22/2025	7	
38	ive	dispersion in a data set , Differentiate between range, quartile deviation, mean deviation and standard					H
40	s	deviation, range, quartile deviation, mean deviation and standard deviation for ungrouped and		0.05.0005	0.400.40005		
41		grouped data set, Choose appropriate measure of dispersion to calculate spread of data Skewness and Kurtosis using graphical representation of a data set, Skewness and Kurtosis of a frequency	1	8/25/2025	8/29/2025) /	
43		distribution by plotting the graph , coefficient of Skewness and interpret the results	Ш				
44		Define Percentile rank ,Percentile rank of scores in a given ungroupe data Define correlation in values of two data sets,					
46		Calculate Spearman's rank correlation for ungrouped data ,coefficient of correlation	ı	9/1/2025 9/8/2025	9/6/2025 9/11/2025	7	
47 48	rly Exami	nation	L	9/15/2025	9/26/2025	HY	
49	1	Define factorial ,Find factorial of a number,Appreciate how to count without counting		9/30/2024	10/5/2024	1	
50 51	tions ations	permutation, concept of permutation to solve simple problems, Combinations, Differentiate between permutation and combination, formula of combination to solve problems	11	10/7/2024		8	
52 53	Limita	limit of a function , problems based on the algebra of limits, continuity of a function,	11	10/21/2024	10/25/2024	5	
54	: Limits 'y	instantaneous rate of change, derivative of the functions,	11		11/15/2025		
55 56	iation	derivative of function of a function					
57	ity	random experiment and sample space with suitable example, different type of event and their	11	11/17/2025	11/21/2025	7	
58 59		probability,concept of conditional probability,problems based on conditional probability ,Apply reasoning skill to solve problems on conditional probability					
60		+ miscellaneous examples	II	11/24/2025	11/28/2025	7	
61	,	concept of Interest Rates ,Compare the difference between Nominal Interest Rate, Effective Rate					
63	atics	and real interest rate, Solve Practical applications of interest rate ,Simple Interest and Compound Interest	11	12/1/2025	12/6/2025	8	
64 65		Annual equivalency rate, effective rate of interest, net present value ,immediate Annuity, , Annuity due and Deferred Annuity •Calculate General Annuity,calculate future value of regular annuity		12/8/2025	12/12/2025	7	
66 67		annuity due ●Apply the concept of Annuity in real life direct and indirect tax, GST, Goods and Services Tax (SGST) Central Goods and Services Tax (CGST) and	II	12/15/2025	12/20/2025	7	
68		Union territory goods and service tax(UTGST), Bills, tariff rates, fixed charge, surcharge, service charge	II	12/15/2025		_	
69 70		calculation of electricity bill,water bill and other supply bills					
71	ite	slope and equation of line in various form , angle between the two lines, Find the perpendicular distance	Ï	1/16/2026	1/23/2026	8	
72 73	у	from a given point on a line • Find the distance between two parallel lines different form of equations of a circle, problems based on applications of circle					
74		parabola and related terms, equation of parabola in standard form	П	4 (07 : 2 = 2	4 100 100		
75 76	for Annu	Practicals Chapterwise Revision for Annual Examination	II	1/27/2026 2/2/2026	1/30/2026 2/13/2026	5 15	
77	tion	Chaptermoe neriolori for Alliudi Examination	11				
78 79	i by: KP		II	2/23/2026	3/7/2026	AE	
80	ordinator	Sign.					
01							

1		Syllabus Planning for First Periodic Evamina	ation 2025-26				
2	Syllabus Planning for First Periodic Examination 2025-26 Class-XI Sub:- Applied-Mathematics(241)						
3	- T	Time:-45 minutes Sub:- Applied-Mathematics(241) Marking Scheme					
4							
	Sl.No.	Chapter/ Topic	Max.Marks				
5 6	2	Binary numbers					
7		Sets and relations	15 20				
7		Total	20				
8							
9	Ol VI	Syllabus Planning for Half Yearly Exami	nation 2025-26				
	Class-XI	Sub:- Applied-Mathematics (241)					
11		Time:-3 hours Marking Sch					
12	Sl.No.	Chapter/ Topic	Max.Marks				
13	7	Sets and Relations	12				
14	2	Binary numbers	4				
15	3	Indices and I oarithms	15				
16	4 5	Functions	6 10				
17	<i>5</i>	Sequence and Series	10 6				
18	6 7	Mathematical reasoning	12				
19 20	8	Numerical Applications Statistics	15				
21	U	Statistics	80				
22		Total	00				
23	C ₁	yllabus Planning for Second Periodic Exa	mination 2025-26				
	3						
24		Class-XI Sub:-Applied-Mathema	ucs(241)				
25		Time:-45minutes	Marking Scheme				
26	Sl.No.	Chapter/ Topic	Max.Marks				
27	7	limits and continuity	7				
28	2	Permutation & Combination	13				
29		Total	20				
30							
31							
	Class-XI	Sub:-Applied Mathematics(241)					
33			arking Scheme				
34	Sl.No.	Chapter/ Topic	Max.Marks				
35	1	Numbers, Quantification and Numerical Applications					
36	2	Algebra	15				
37	3	Mathematical Reasoning	6				
38	4 5	Calculus	10				
39	5	Probability	8 12				
40	7	Descriptive Statistics	12				
41 42	8	Basics of Financial Mathematics	5				
43	U	Coordinate Geometry	J				
44		Total	80				
45		Co-ordinator Name-KK.I	, 				
46		Subject Teacher Name: KP					
47		Cabicot i caciloi i tarric. Iti					
1 7.7.							
48							

APPLIED MATHEMATICS (241) Internal Assessment Max. Marks: 20 Evaluation Criteria

Weightage for each area of internal assessment may be as under:

Sl. No.	Area and	Assessment Area	Marks allocated
	Weightage		allocated
1	Project work	Project work and record	5
	(10 marks)	Year-end Presentation/ Viva of the	5
		Project	
2	Practical work	Performance of practical and record	5
	(10 marks)	Year-end test of any one practical	5
	20		

Assessment Plan

- 1. Overall Assessment of the course is out of 100 marks.
- 2. The assessment plan consists of an External Exam and Internal Assessment.
- 3. External Exam will be of 03 hours duration Pen/ Paper Test consisting of 80 marks.
- 4. The weightage of the Internal Assessment is 20 marks. Internal Assessment can be a combination of activities spread throughout the semester/ academic year. Internal Assessment activities include projects and excel based practical. Teachers can choose activities from the suggested list of practical or they can plan activities of a similar nature. For data-based practical, teachers are encouraged to use data from local sources to make it more relevant for students.