

Lesson Plan			
Name	<b>Krishan Sharma</b>	Designation	<b>Assistant Professor of Mathematics</b>
Class	<b>B.Sc. I</b>	Sem	<b>II</b>
Subject	<b>Number Theory and Trigonometry</b>	Session	<b>2021-2022</b>
Day	Topic	Day	Topic
1	Principal of Mathematical Induction	46	Theorems on $d(n)$ and $\sigma(n)$
2	Divisibility	47	Doubt Class
3	Theorems on Divisibility	48	Theorems on $d(n)$ and $\sigma(n)$
4	Division Algorithm	49	Test
5	GCD and LCM	50	Problems on $d(n)$ and $\sigma(n)$
6	Theorems on GCD and LCM	51	Mobius Function
7	Some Theorems on Prime Numbers	52	Mobius Inversion Formula
8	Fundamental Theorem on Airthmetic	53	Problmes on Mobius Inversion Formula
9	Problems on Above Topics	54	De Moivre's Theorem
10	Problems on Above Topics	55	Problems on DeMoivre's Theorem
11	Congruences	56	Problems on DeMoivre's Theorem
12	Theorems on Congruences	57	Roots of a Complex Number
13	Linear Congruence	58	Problems on Roots of Complex Number
14	Theorems on Linear Congruences	59	Solving Equation Using DeMoivre's Theorem
15	Problems on Linear Congruences	60	Expansion of $\cos nx$ and $\sin nx$
16	Theorems on Linear Diophantine Equations	61	Expansion of $\tan nx$
17	Problems on Linear Diophantine Equations	62	Problems on Above Topics
18	Problems on Linear Diophantine Equations	63	Formation of Equations
19	Fermat's Theorem	64	Expansion of $\cos^n x$ and $\sin^n x$
20	Problems on Fermat's Theorem	65	Problems on Above Topics
21	Problems on Fermat's Theorem	66	Doubt Class
22	Wilson's Theorem	67	Exponential Function
23	Converse of Wilson's Theorem	68	$\sin z$ and $\cos z$
24	Problems on Wilson's Theorem	69	Euler's Theorem
25	Chinese Remainder Theorem	70	Problems on Above Topics
26	Problems on Chinese Remainder Theorem	71	Logarithm Function
27	Problems on Chinese Remainder Theorem	72	Problems on Logarithm Function
28	Euler's Function	73	Problems on Logarithm Function
29	Theorems on Euler's Function	74	General Exponential Function
30	Problems on Euler's Function	75	Problems on Above Topics
31	Problems on Euler's Function	76	Problems on Above Topics
32	Residues	77	Revision of Previous Topics
33	Complete Residue System	78	Inverse Circular Functions of a Real Variable
34	Reduced Residue System	79	Problems on Above Topics
35	Some Theorems on Residue Systems	80	Problems on Above Topics
36	Holiday	81	Inverse Circular Functions of a Complex Variable
37	Euler's Generalization of Fermat's Theorem	82	Problems on Above Topics
38	Problems on Above Topics	83	Gregory's Series
39	Revision of Chapter 1,2	84	Series of Sine and Cosine
40	Revision of Chapter 3,4	85	Problems on Above Topics
41	Greatest Integer Function	86	Revision of Unit I
42	Problems on Greatest Integer Function	87	Revision of Unit II
43	Problems on Greatest Integer Function	88	Revision of Unit III
44	Divisor of $n$	89	Revision of Unit IV
45	Sigma function of $n$	90	Doubt Class