

**Lesson Plan : 1st January 2018 to 28 April 2018 (17 Weeks)**

Name of Assistant/Associate Professor Mr. KAPIL SHARMA

Class & Section B.Sc I<sup>st</sup> year (II-SEM)

Subject Name and Code Number theory & Trigonometry -BM-121

Jan 1, 2018 to Jan 6, 2018 (Week 1)	
Jan 1, Monday	
Jan 2, Tuesday	
Jan 3, Wednesday	
Jan 4, Thursday	
Jan 5, Friday	
Jan 6, Saturday	<u>Divisibility</u>
Jan 8, 2018 to Jan 13, 2018 (Week 2)	
Jan 8, Monday	<u>Theorem of divisibility based</u>
Jan 9, Tuesday	<u>u.c.d (Greatest common divisor)</u>
Jan 10, Wednesday	<u>Question and Examples of u.c.d based</u>
Jan 11, Thursday	<u>Theorem of u.c.d based.</u>
Jan 12, Friday	<u>L.C.M (Least common multiple) based</u>
Jan 13, Saturday	<u>Theorem and Question and Examples L.C.M based.</u>

Test :	<u>As per cover to be</u>
Assignment:	<u>As per cover to be</u>

Jan 15, 2018 to Jan 20, 2018 (Week 3)

Jan 14, Monday	Primes theorem and Fundamental theorem
Jan 15, Tuesday	Primes Fundamental theorem of Arithmetic
Jan 16, Wednesday	Example Solu base for Fundamental theorem
Jan 17, Thursday	Group discussion as per cover topic
Jan 18, Friday	Linear congruences and Fermat's theorem
Jan 20, Saturday	Question and Example Solu for Fermat's theorem

Jan 22, 2018 to Jan 27, 2018 (Week 4)

Jan 22, Monday	Holiday (Basant Panchmi)
Jan 23, Tuesday	Wilson's theorem and its converse.
Jan 24, Wednesday	Holiday (Sir Chhotu Ram Jayanti)
Jan 25, Thursday	Linear Diophantine equation in two variables
Jan 26, Friday	Holiday (Republic Day)
Jan 27, Saturday	" " " "

Jan 29, 2018 to Feb 3 2018 (Week 5)

Jan 29, Monday	Question and Example Solu for Diophantine
Jan 30, Tuesday	Group Discussion of as per cover topic
Jan 31, Wednesday	Complete Residue System and Reduced System mod $m$
Feb 1, Thursday	Theorem Residue based
Feb 2, Friday	Example and Question Residue based Solu
Feb 3, Saturday	Euler Function of

Test :	As per cover topic
Assignment:	As per cover topic

Feb 5, 2018 to Feb 10, 2018 (Week 6)

Feb 5, Monday	Theorem - 2, 3, 4.
Feb 6, Tuesday	sketch of Gauss's Formula Example 1, 2, ... 7, 8 Euler's Generalization of Fermat's.
Feb 7, Wednesday	EX-87 Question Solver.
Feb 8, Thursday	Division Function. of $n$ . 3-7, Sigma Function
Feb 9, Friday	Theorem solving Euler's Generalization
Feb 10, Saturday	Holiday (Maharashi Dayanand Saraswati Jayanti)

Feb 12, 2018 to Feb 17, 2018 (Week 7)

Feb 12, Monday	Chinese Remainder theorem. and Example
Feb 13, Tuesday	(Holiday) Mahashivratri
Feb 14, Wednesday	Solve Example
Feb 15, Thursday	Quadratic Residues. Legendre Symbols
Feb 16, Friday	Law of Gauss, Gauss Reciprocity Law
Feb 17, Saturday	Greatest integer function $[x]$ .

Feb 19, 2018 to Feb 24, 2018 (Week 8)

Feb 19, Monday	The number of divisors, and the sum of divisors of $n$ .
Feb 20, Tuesday	" " " "
Feb 21, Wednesday	" " " "
Feb 22, Thursday	Mobius Function and Mobius Inversion Formula
Feb 23, Friday	" " " "
Feb 24, Saturday	Problem Solving of this unit.

Test :	As per cover date
Assignment:	As per cover date

Feb 26, 2018 to Mar 3, 2018 (Week 9)

Feb 26, Monday	Group discussion of Unit II
Feb 27, Tuesday	De Moivre's theorem state and proof
Feb 28, Wednesday	Vacation
Mar 1, Thursday	
Mar 2, Friday	
Mar 3, Saturday	

Mar 5, 2018 to Mar 10, 2018 (Week 10)

Mar 5, Monday	De Moivre's theorem applications.
Mar 6, Tuesday	Examples and Question solve based for De Moivre's
Mar 7, Wednesday	" " " "
Mar 8, Thursday	" " "
Mar 9, Friday	" " "
Mar 10, Saturday	Revision of cover topic <span style="float: right;">Revision</span>

Mar 12, 2018 to Mar 17, 2018 (Week 11)

Mar 12, Monday	Expansion of trigonometrical function
Mar 13, Tuesday	————— also —————
Mar 14, Wednesday	————— also —————
Mar 15, Thursday	————— also —————
Mar 16, Friday	Problem solving of De-Moivre's, Expansion further
Mar 17, Saturday	Group discussion of cover topic

Test :	As per cover topic
Assignment:	As per cover topic

