

Lesson Plan Format  
18 weeks (From January 2018 to April 2018)

Name of Assistant /Associate Professor : Dr. Parveen Kumar.....  
Class and Section : M.Sc(F.) IV.....  
Subject : Algebraic Number Theory.

Week 1(January 1-6)	
Chapter 1	
01/01/2018	Holiday
02/01/2018	'
03/01/2018	'
04/01/2018	"
05/01/2018	"
06/01/2017	Algebraic No.
Week 2(January 8-13)	
Chapter	
08/01/2018	Gaussian integers and its properties
09/01/2018	'
10/01/2018	"
11/01/2018	"
12/01/2018	"
13/01/2018	"
Week 3(January 15-20)	
Chapter	
15/01/2018	Primes no and fundamental theorem
16/01/2018	'
17/01/2018	"
18/01/2018	Fundamental theorem in $\mathbb{Q}(\omega)$
19/01/2018	Algebraic field,
19/01/2018	"
20/01/2018	"
Week 4(January 22-27)	
Chapter	
22/01/2018	Primitive polynomial
23/01/2018	"
24/01/2018	Quadratic field $\mathbb{Q}(\sqrt{m})$
25/01/2018	Units of $\mathbb{Q}(\sqrt{2})$
26/01/2018	Euclidean fields

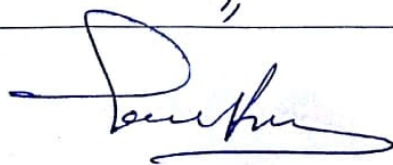
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27/01/2018	
<b>Week 5 (January 29- Feb 3)</b>	Theorem of primitive elements
<b>Chapter</b>	
29/01/2018	"
30/01/2018	"
31/01/2018	"
01/02/2018	"
02/02/2018	"
03/02/2018	"
<b>Week 6 (Feb 5-10)</b>	
<b>Chapter</b>	
05/02/2018	Norm and trace of algebraic no.
06/02/2018	"
07/02/2018	"
08/02/2018	"
09/02/2018	Non-degeneracy of bilinear pairing
10/02/2018	"
<b>Week 7 (Feb 12-17)</b>	
<b>Chapter</b>	
12/02/2017	"
13/02/2017	Discriminant of an algebraic no. field
14/02/2017	"
15/02/2017	"
16/02/2017	"
17/02/2017	"
<b>Week 8 (Feb 19-24)</b>	
<b>Chapter</b>	
19/02/2018	Existence of integral basis
20/02/2018	"
21/02/2018	"
22/02/2018	"
23/02/2018	"
24/02/2018	"
<b>Week 9 (Feb 26-March 03)</b>	
<b>Chapter</b>	
26/02/2018	Ring of algebraic integers
27/02/2018	"
28/02/2018	"
01/03/2018	"

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02/03/2018	"
03/03/2018	"
<b>Week 10(March 5-10)</b>	
<b>Chapter</b>	
05/03/2018	Fermat Theorem in ring of Gaussian integers
06/03/2018	Primes of $\mathbb{Q}(i)$ and $\mathbb{Q}(\sqrt{5})$
07/03/2018	"
08/03/2018	"
09/03/2018	"
10/03/2018	"
<b>Week 11(March 12-17)</b>	
<b>Chapter</b>	
12/03/2018	Countability of set of algebraic no.
13/03/2018	"
14/03/2018	Liouville Theorem and its generalization
15/03/2018	"
16/03/2018	"
17/03/2018	Transcendental no.
<b>Week 12(March 19-24)</b>	
<b>Chapter</b>	
19/03/2018	Algebraic no. field
20/03/2018	"
21/03/2018	Ideals in ring of algebraic integers
22/03/2018	"
23/03/2018	Sign of discriminant
24/03/2018	"
<b>Week 13(March 26-31)</b>	
<b>Chapter</b>	
26/03/2018	Cyclotomic field
27/03/2018	"
28/03/2018	Calculation for quadratic
29/03/2018	"
30/03/2018	"
31/03/2018	"
<b>Week 14(April 02-07)</b>	
<b>Chapter</b>	
02/04/2018	"
03/04/2018	"
04/04/2018	"



05/04/2018	//
06/04/2018	//
07/04/2018	//
<b>Week 15(April 09-14)</b>	
<b>Chapter</b>	
09/04/2018	Integral closure
10/04/2018	Noetherian ring
11/04/2018	"
12/04/2018	Characterizing Dedekind domains
13/04/2018	"
14/04/2018	Fractional ideals and U.F.D
<b>Week 16(April 16-21)</b>	
<b>Chapter</b>	
16/04/2018	"
17/04/2018	G.C.D, L.C.M of ideals
18/04/2018	"
19/04/2018	"
20/04/2018	Chinese remainder Theorem
21/04/2018	"
<b>Week 17(April 23-28)</b>	
<b>Chapter</b>	
23/04/2017	"
24/04/2017	"
25/04/2017	Dedekind Theorem
26/04/2017	Ramified and unramified extensions
27/04/2017	Algebraic no-field
28/04/2018	"
<b>Week 18(April 29-30)</b>	
<b>Chapter</b>	
30/04/2018	Factorization in ring of algebraic integers.

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