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## ***Abstract (Modern) Algebra Course Lectures***

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**What is Abstract Algebra? (Modern Algebra)** Abstract Algebra is very different than the algebra most people study in high school. This math subject focuses on abstract ...

**Abstract Algebra**

**Ring Definition (expanded) -**

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**Abstract Algebra** A ring is a commutative group under addition that has a second operation: multiplication. These generalize a wide variety of ...

**(Abstract Algebra 1) Definition of a Subgroup** The definition of a subgroup is given, along with a few examples.

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**Abstract Algebra Course, Lecture 1,  
Syllabus, Intro to Groups, Modular  
Arithmetic, Sets, & Functions**

**Abstract algebra** course textbook,  
"Contemporary **Abstract Algebra**", by  
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**Group Definition (expanded) -**

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**Abstract Algebra** The group is the most fundamental object you will study in **abstract algebra**. Groups generalize a wide variety of mathematical ...

***Modern Algebra (Abstract Algebra)  
Made Easy - Part 3 - Cyclic Groups  
and Generators***

<http://www.pensieve.net/course/13> This



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time I talk about what a Cyclic Group/Subgroup is and give examples, theory, and proofs ...

## ***DIVISORS, UNITS AND ASSOCIATES***

Ring Theory, 3 Cr. Hours, For students of B.S./M.Sc. Mathematics, etc. RING THEORY 1- Construction of new rings  
2-Direct sums, ...

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**UPSC Mathematics | Modern  
Algebra (in Hindi)**

## **Matrix Groups (Abstract Algebra)**

Matrices are a great example of infinite, nonabelian groups. Here we introduce matrix groups with an emphasis on the general ...

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***The Bible of Abstract Algebra*** The  
Bible of Abstract Algebra

If you knew everything in this book you  
would be a MATH GOD! This is  
absolutely the most ...

***What is a Vector Space? (Abstract  
Algebra)*** Vector spaces are one of the

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fundamental objects you study in **abstract algebra**. They are a significant generalization of the 2- and ...

***Isomorphisms (Abstract Algebra)*** An isomorphism is a homomorphism that is also a bijection. If there is an isomorphism between two groups  $G$  and  $H$ , then they are ...

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## ***Field Definition (expanded) -***

***Abstract Algebra*** The field is one of the key objects you will learn about in **abstract algebra**. Fields generalize the real numbers and complex ...

## ***Normal Subgroups and Quotient Groups (aka Factor Groups) -***

***Abstract Algebra*** Normal subgroups

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are a powerful tool for creating factor groups (also called quotient groups). In this video we introduce the ...

***Cycle Notation of Permutations - Abstract Algebra*** Cycle Notation gives you a way to compactly write down a permutation. Since the symmetric group is so important in the study of ...

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## ***Cyclic Groups (Abstract Algebra)***

Cyclic groups are the building blocks of abelian groups. There are finite and infinite cyclic groups. In this video we will define ...

## ***Dihedral Group (Abstract Algebra)***

The Dihedral Group is a classic finite group from **abstract algebra**. It is a

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non abelian groups (non commutative),  
and it is the group ...

***Cosets and Lagrange's Theorem -  
The Size of Subgroups (Abstract  
Algebra)*** Lagrange's Theorem places a  
strong restriction on the size of  
subgroups. By using a device called  
"cosets," we will prove ...



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**Lec 1 | Abstract Algebra** Week 1:  
Review of linear **algebra**. Groups.  
Examples of groups. Basic properties  
and constructions. This video:  
Introduction to the ...

## **Homomorphisms (Abstract Algebra)**

A homomorphism is a function between  
two groups. Its a way to compare two

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groups for structural similarities.  
Homomorphisms ...

**Lec 2 | Abstract Algebra** Week 1:  
Review of linear **algebra**. Groups.  
Examples of groups. Basic properties  
and constructions. This video:  
Administrative ...

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***An introduction to abstract algebra  
| Abstract Algebra Math  
Foundations 213 | NJ Wildberger***

How do we set up **abstract algebra**? In other words, how do we define basic algebraic objects such as groups, rings, fields, vector ...

***Abstract Algebra: The definition of a***

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**Ring** Learn the definition of a ring, one of the central objects in **abstract algebra**. We give several examples to illustrate this concept ...

**What is Abstract Algebra? Algebra** is my favorite branch of mathematics. In this video, I try to describe what the subject is about, assuming as little ...

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## **Simple Groups - Abstract Algebra**

Simple groups are the building blocks of finite groups. After decades of hard work, mathematicians have finally classified ...

## **Modern Algebra - Group, Ring, Field...**

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