

**Introductory Organic Chemistry II**  
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**Module 03**  
**Lecture 19**  
**Weekly Intro - 3**

Welcome back. So, this is the week three of the NPTEL course. So, in the past two weeks, you have extensively studied about aromatic compounds, about reactions of aromatic compounds. And to put this in perspective, aromatic compounds are very important because many drugs that we consume have either an aromatic or heterocyclic compound. And so, understanding the reactivity is really important.

Now, in this week, what we will do is we will take up another really cool functional group, which is the carbonyl functional group. So, the carbonyl functional group again in various forms is present in life as we know it, many amino acids have carboxylic acids. And many other carbon components in the cell have carbonyl compounds in it.

So, what we will do in this week is we will spend some time and understand the reactivity of carbonyl compounds, and how these carbonyl compounds can be used to synthesize very complex compounds, which are very important in biology. And not just biology, but also many of them are also important in materials.

So, you will find that polymers that we use every day in many of our applications including, making bottles, making important household items, also to make implants, medical implants, many of these consists of polymers. So, together, this carbonyl functional group is a very important functional group, which is a building block of many of these polymers and many of these important medical components.