
Operations Research

COURSE CODE: IEN05

OPERATIONS RESEARCH

The discipline of applying advanced^[1] analytical^[2] methods to help make better decisions^[3]

^[1]OR uses highly developed tools

^[2]OR resolves problems by breaking them down to basic principles

^[3] OR is not about the ideal, but about sound judgments and conclusions

THE ORIGINS OF OPERATIONS RESEARCH

- The beginning of the activity called *Operations Research* has generally been attributed to the military services early in World War II.
- Because of the war effort, there was an urgent need to allocate scarce resources to the various military operations and to the activities within each operation in an effective manner.
- The British and then the US military management called upon a large number of scientists to apply a scientific approach to dealing with this and other strategic and tactical problem.
- They were asked to do research on (military) operations. These teams of scientists were the first OR teams).
- By developing effective methods of using the new tool of radar, these teams were instrumental in winning the Air Battle of Britain.
- Through their research on how to better manage convoy and anti-submarine operations, they also played a major role in winning the Battle of the North Atlantic.
- Similar efforts assisted the Island Campaign in the Pacific.
- When the war ended, the success of OR in the war effort spurred interest in applying OR outside the military as well.
- At least two other factors that played a key role in the rapid growth of OR during this period:
 - Substantial progress that was made early in improving the techniques of OR.
 - Onslaught of the computer revolution.

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