## UNIT 11: Sample space, event and probability of an event

## Specific Objectives:

1. To understand the set notation for application in probability
2. To understand the meaning of sample space, event and probability of an event.
3. To learn the concept of mutually exclusive, exhaustive and complementary events.
4. To find the probability of an event.
5. To use simple permutations and combinations in finding probabilities.


| Detailed Content | Time Ratio | Notes on Teaching |  |
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| $\mathbf{1 1 . 4}$Further Examples | 5 | Various techniques of finding the probability of an event should be introduced here <br> through examples. Techniques such as tabulation of a finite sample space and tree <br> diagram should be discussed. Students should also be able to apply the counting <br> techniques such as permutation and combination in calculating the number of elements <br> in events and the sample space and hence the probabilities. |  |
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