

**SSN COLLEGE OF ENGINEERING, KALAVAKKAM**  
**Department of Computer Science and Engineering**  
**CS6503 - Theory of Computation**  
**Tutorial – 1 (DFA and NFA)**

1. Construct a DFA and NFA that recognizes the language  $L = \{w \mid w = saba \text{ for some string } s \in \Sigma^*\}$   
Also check the following words for both NFA & DFA
  - i) bbabab
  - ii) baba
  
2. Construct a DFA and NFA for  $L = \{w \mid w \text{ begins with 1 and ends with 0}\}$   
Also check the following words for both NFA & DFA
  - i) 110101
  - ii) 1010