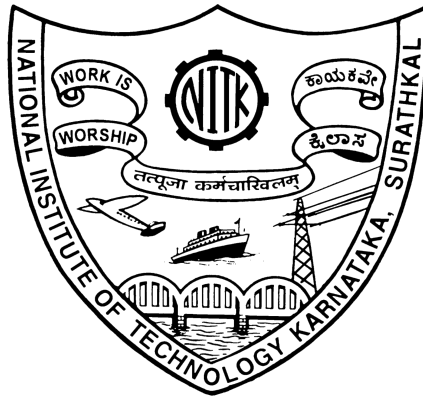


**National Institute of Technology Karnataka**  
Department of Information Technology



**Topic**

**Software Engineering Assignment - 2**

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The **Institute of Electrical and Electronics Engineers (IEEE)** style is a widely accepted format for writing research papers, commonly used in technical fields, particularly in computer science. It is a standard format followed at a large number of institutions across the globe. However, it has a few drawbacks when compared to the SRS of other IT companies such as Infosys, IBM and TCS.

#### **Disadvantages of IEEE SRS when compared with Infosys SRS:**

- Fields such as Audit Trail, Data Migration, Data Retention Installation, and Reliability, etc are missing in IEEE SRS Format as it is more generalised version whereas Infosys SRS is lot more specific about its purpose.
- Being a consultancy company that provides a service to its customers, fields such as Number Of Transactions Per Second, Number Of Customers Served, etc are more specific to Infosys whereas these fields are missing in IEEE SRS Format. In case of providing SRS for a company that provides service to customers and/or other companies then the Infosys SRS Format will be preferred over IEEE SRS Format.

#### **Disadvantages of IEEE SRS when compared with IBM SRS:**

- Absence of a section to mention the shortcomings and limitations of the model which is present in the IBM SRS. The shortcomings section enlightens the reader of the SRS as to the possible improvements in the current version.
- Absence of Database and Architecture Design is also one of the drawbacks of the IEEE SRS because the database design and the architectural design helps the user implementing the project and prevents him from over thinking about implementing the database design.

#### **Disadvantages of IEEE SRS when compared with TCS SRS:**

- Database Requirements and Design Constraints are absent in the IEEE format but are present in the TCS Format. Presence of Database design helps the user

implementing the project and prevents him from over thinking about implementing the database design.

- TCS has a section called prioritising requirements which is missing in the IEEE format. This section is needed because it helps describe the priority order in which the requirements are to be taken care of.

### **Conclusion:**

IEEE standards are developed through the collaboration of dozens of practitioners worldwide. They reflect the best of what is known about how to address a specific software engineering domain. It is a standard format followed at a large number of institutions across the globe. However, it has a few drawbacks which could be improved by adding features such as Database Design and Architectural Design constraints that are currently absent in IEEE SRS Format.