**Task 10
Group III**

Reliability and Robustness Requirements for ASICs in Medical Devices

Reliability and Robustness Requirements

Common Challenges in Ensuring Reliability

- Longevity and lifecycle management
- Supply chain considerations
- Safety and regulatory compliance
- Testing and validation
- Low failure rate and high MTBF
- Quality and manufacturing processes
- Security and privacy
- Redundancy and fault tolerance
- Environmental factors

- Long-term reliability
- Complex regulatory compliance
- Stringent quality control
- Maintenance and support issues
- Environmental durability
- Security vulnerabilities
- User safety considerations
- Testing complexity
- Integration challenges