**SOFTWARE ENGINEERING ETHICS**

1. **ETHICS PRINCIPLE**
   1. **Accessibility-:** Ensuring that EV charging sockets are accessible to all the drivers. Installing EV stations at such place which can be reached easily.
   2. **Equity-:** Equal access to all members of the community, regardless of their socio-economic status.
   3. **Sustainability-:** Minimizing the environmental impact by prioritizing renewable energy.
   4. **Safety-:** Ensure that charging station meet the safety standards to protect drivers from any potential hazards.
   5. **Transparency-**: Clear information should be provided to the drivers about the location, availability and charging station.
   6. **Privacy-**: Ensuring the privacy of EV drivers by implementing robust security measures.
   7. **Long-term planning-:** Adopting a long-term planning to accommodate future growth in electric vehicles.
2. **SOFTWARE QUALITY CHARACTERSTICS**
   1. **Functionality-:** The extent to which software system meet intended function effectively and accurately. It includes all the features.
   2. **Reliability-**: Ability of the software to perform consistently, effectively and accurately. It involves error handling and system stability.
   3. **Usability-**: How easy is to use the software system depends on the user interface, design, navigate and interact efficiently.
   4. **Efficiency-**: It refers to the availability of a software system to perform its functions timely and efficiently.
   5. **Maintainability-**: It refers to the ease with the which the software can modified or updated over a period of time.
   6. **Scalability-**: It refers to the ability of the software to work with proper efficiency inspite of increased work-load and user demands.
   7. **Security-**: It involves authentication and authorization. It refers to protection of the system from the unauthorized access.

**REFERENCE – Deakin website example (From slides)**