| **CO5** | Analyze the societal, health, safety, legal, and cultural implications of deploying robotic systems in various real-world domains such as healthcare, industry, and defense.  **Project proposal on the real-world domain (4 Marks)** | |
| --- | --- | --- |
| **PO: f** |

| **Criteria** | **Level 4:**  **Excellent** | **Level 3:**  **Good** | **Level 2:**  **Satisfactory** | **Level 1:**  **Needs Improvement** |
| --- | --- | --- | --- | --- |
| Societal Impact Analysis | Thorough evaluation of social effects with insightful examples and balanced perspectives. | Good discussion of societal impact; some examples provided. | Basic awareness of social effects; limited examples. | Neglects societal implications or provides superficial analysis. |
| Health and Safety Considerations | Comprehensive coverage of risks and safety measures with clear mitigation strategies. | Covers major health/safety issues with reasonable detail. | Mentions health/safety but lacks depth or specifics. | Little or no consideration of health and safety factors. |
| Legal and Ethical Compliance | Detailed review of relevant laws, ethical dilemmas, and governance; well-supported arguments. | Addresses key legal and ethical issues adequately. | Basic mention of legal/ethical aspects without depth. | Ignores or misunderstands legal and ethical concerns. |
| Cultural Sensitivity and Adaptation | Insightful analysis of cultural factors and societal diversity; shows awareness of adaptation needs. | Discusses cultural considerations with some examples. | Mentions culture but lacks detailed analysis or examples. | Omits cultural factors or shows lack of understanding. |
| Report Quality and Technical Depth | Well-organized, clearly written, uses credible sources and strong, logical arguments. | Mostly clear and structured; some references and reasoning. | Understandable but poorly structured with limited support. | Poorly organized, unclear, and lacks supporting evidence. |

**Report must contain:**

**1**. Objectives & Functionalities

**2.** Equipment

**3.** Real world Implication of your project in depth (Societal, Environmental, Health, Safety, Legal, and/or Cultural)

**You don't need to show the code and experimental setup for this report. You need to show it for the final project report but not for this one.**

**[CO5: Analyze the societal, health, safety, legal, and cultural implications of deploying robotic systems in various real-world domains such as healthcare, industry, and defense.]**

Our Project Details

<https://projecthub.arduino.cc/plouc68000/ardutester-v113-the-arduino-uno-transistor-tester-2deffc>

Youtube Reference:

<https://www.youtube.com/watch?v=crQiHfSg97I>