1. AI and Ethics:

- **AI Bias in Hiring Algorithms:**

  - **Research Question:** How do algorithmic biases in hiring tools affect diversity and inclusion in the workplace, and what ethical frameworks can mitigate these biases?

  - **Additional Topics:** Analyzing the performance of different algorithms, comparing outcomes with human-led hiring, and exploring the role of transparency and accountability in AI-driven hiring.

- **Ethical Considerations of Facial Recognition Technology:**

  - **Research Question:** What are the ethical implications of using facial recognition technology in public spaces, and how can we balance security concerns with privacy rights?

  - **Additional Topics:** Examining the potential for misuse, the accuracy of facial recognition algorithms, and the impact on free speech and assembly.

- **The Ethics of Autonomous Vehicles:**

  - **Research Question:** How should autonomous vehicles be programmed to make ethical decisions in unavoidable accident scenarios, and who should be responsible for the consequences of those decisions?

  - **Additional Topics:** Exploring different ethical frameworks, the role of human oversight, and the potential for bias in autonomous vehicle programming.

2. Online Privacy and Security:

- **The Impact of Social Media on Privacy:**

  - **Research Question:** How do social media platforms collect and use user data, and what are the ethical implications for individual privacy and autonomy?

  - **Additional Topics:** Analyzing data collection practices, examining the role of advertising, and exploring the potential for manipulation and misinformation.

- **The Ethical Use of Online Anonymity:**

  - **Research Question:** How can we balance the benefits of online anonymity with the need for accountability and responsible online behavior?

- **Additional Topics:** Examining the role of anonymity in online harassment, the potential for malicious activity, and the development of ethical guidelines for online anonymity.

- **Data Privacy in a Connected World:**

    - **Research Question:** How can we protect individuals' privacy in an increasingly interconnected world, where data is constantly being collected and shared?

    - **Additional Topics:** Exploring different data protection laws and regulations, examining the role of encryption and other security measures, and promoting data literacy and awareness.

3. Intellectual Property and Copyright:

- **The Ethics of Digital Copyright:**

    - **Research Question:** How should copyright laws be adapted to the digital age, and what are the ethical implications for creators and users of digital content?

    - **Additional Topics:** Examining the role of copyright in the creative industries, exploring the potential for piracy, and promoting fair use and open access.

- **The Ethics of Open Source Software:**

    - **Research Question:** What are the ethical implications of using and contributing to open source software, and how can we ensure that open source projects are developed responsibly?

    - **Additional Topics:** Exploring the role of open source in innovation, the potential for conflicts of interest, and the importance of community governance.

4. Computer Crime and Security:

- **The Ethics of Cybersecurity:**

    - **Research Question:** How can we balance the need for cybersecurity with the protection of individual privacy and freedom of expression?

    - **Additional Topics:** Examining the potential for surveillance, the role of encryption and other security measures, and the importance of cybersecurity education.

- **The Ethics of Hacking and Whistleblowing:**

  - **Research Question:** What are the ethical implications of hacking and whistleblowing, and how can we ensure that these activities are used responsibly?

  - **Additional Topics:** Examining the role of hacking in exposing corruption and injustice, the potential for misuse, and the importance of ethical guidelines.