Topic	
Methods, benefits, and limitations of automating penetration tests for selected medical devices	This project will be inductive since I will start with collecting observations from experiment & literature. I would also analyze the data and would conclude whether there are or will be potential benefits in automating penetration tests for some medical devices. This topic will be addressed via explanatory research since there cannot be a conclusive result from the topic. It is only possible to explore this topic and try to get a better understanding. It is not possible to provide a finite result like A is better than B. For the literature review a qualitative approach is deemed appropriate. This will be done by studying reports from people trying to automate pen-test in general. Additionally, this topic is planned to be addressed by experiment. It is planned to create code, that might increase the speed of pen-testing for medical devices. It also might be possible to build hardware to automate and speed up certain steps. This method is a quantitate method, since the results (e.g., time reduction by automation) will be measurable.
Implementing Cyber Security tools and/or techniques in Local transportation system in Berlin	Explanatory Research would be suited best here since the title does not suggest that there is a specific question to answer. It rather suggests that information should be collected that provide a better understanding of the topic. I would use a qualitative approach. I would do an indirect case study, where I would try to identify company reports or documents that aid to a better understanding of the topic.

(Dawson 2015, UoEO 2022)

References

Dawson W. C. (2015) *Projects in Computing and Information Systems A Student's Guide* Pearson publishing, Third Edition, Harlow England

UoEO (2022) *Lecture cast Research Questions, the Literature Review and the Research Proposal* Available from https://www.my-course.co.uk/Computing/Computer%20Science/RMPP/RMPP%20Lecturecast%201/content/index.html#/ Accessed on 01.02.2022