

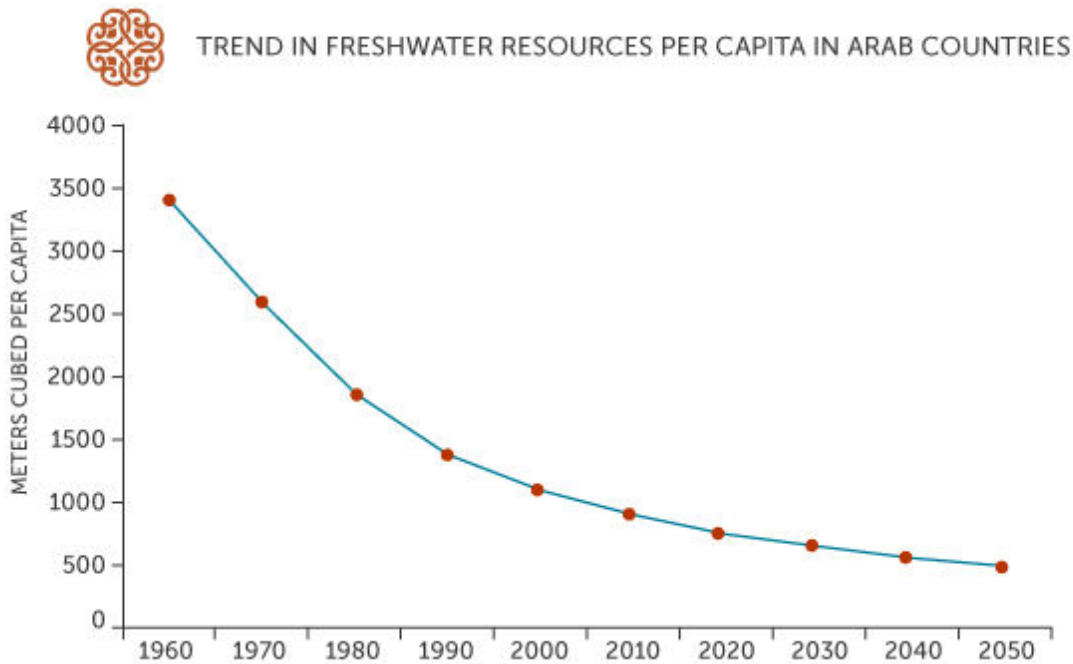
**DEVELOPING STRATEGIES TO OVERCOME WATER CRISIS  
AND CONSERVE WATER AT THE ALFAISAL UNIVERSITY  
CAMPUS**

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## Project Justification and Methodology

Clean water is one of the major factors which may aid in the prevention of diseases. Water is important for several activities and must be conserved considering the rapidly depleting ground water table. According to Export.gov (2019), the UAE faces major challenges in terms of water management, as well as the scarcity and conservation strategies of the available water. The major issues can be attributed to the greater expenses of production of drinking water and limited treatment facilities of reusable water. Furthermore, *Environment 2030* forecasts published the EAD states that groundwater in the UAE would be exhausted in less than 50 years' time, in case adequate conservation, recycling and reusing strategies are not developed and implemented (Export.gov, 2019). This project aims at developing appropriate strategies for water conservation at the *AlFaisal University campus*, along with generating awareness among the students.



**Figure 1: Available freshwater resources in UAE predictions**  
(Source: Kandeel, 2017)

In order to carry out this project, the researcher aims at conducting a survey with the students at the *AlFaisal University campus* to determine their knowledge and awareness on the subject of water conservation. It is to be noted in this context that awareness from all quarters is essential in this regard and that the students are considered to be the future. Hence, shaping a brighter future for the country is deemed crucial in the time of need. A questionnaire comprising primarily close-ended questions is to be asked to the participants of the survey. In addition to that, comprehensive and few open-ended questions are to be asked as a follow-up for the opinions of the students. Hence, a mixed methodology is to be implemented for this project, since primary and secondary as well as quantitative and qualitative approaches for data analysis are being considered. It needs to be stated that the survey would be chiefly focused not only on educating the students on the campus regarding the concurrent water crisis, but also ask for the opinions to come up with plans for the fundamental treatment to reuse water on the *AlFaisal University campus*. Thus, primary data is to be gathered for this project, along with readily



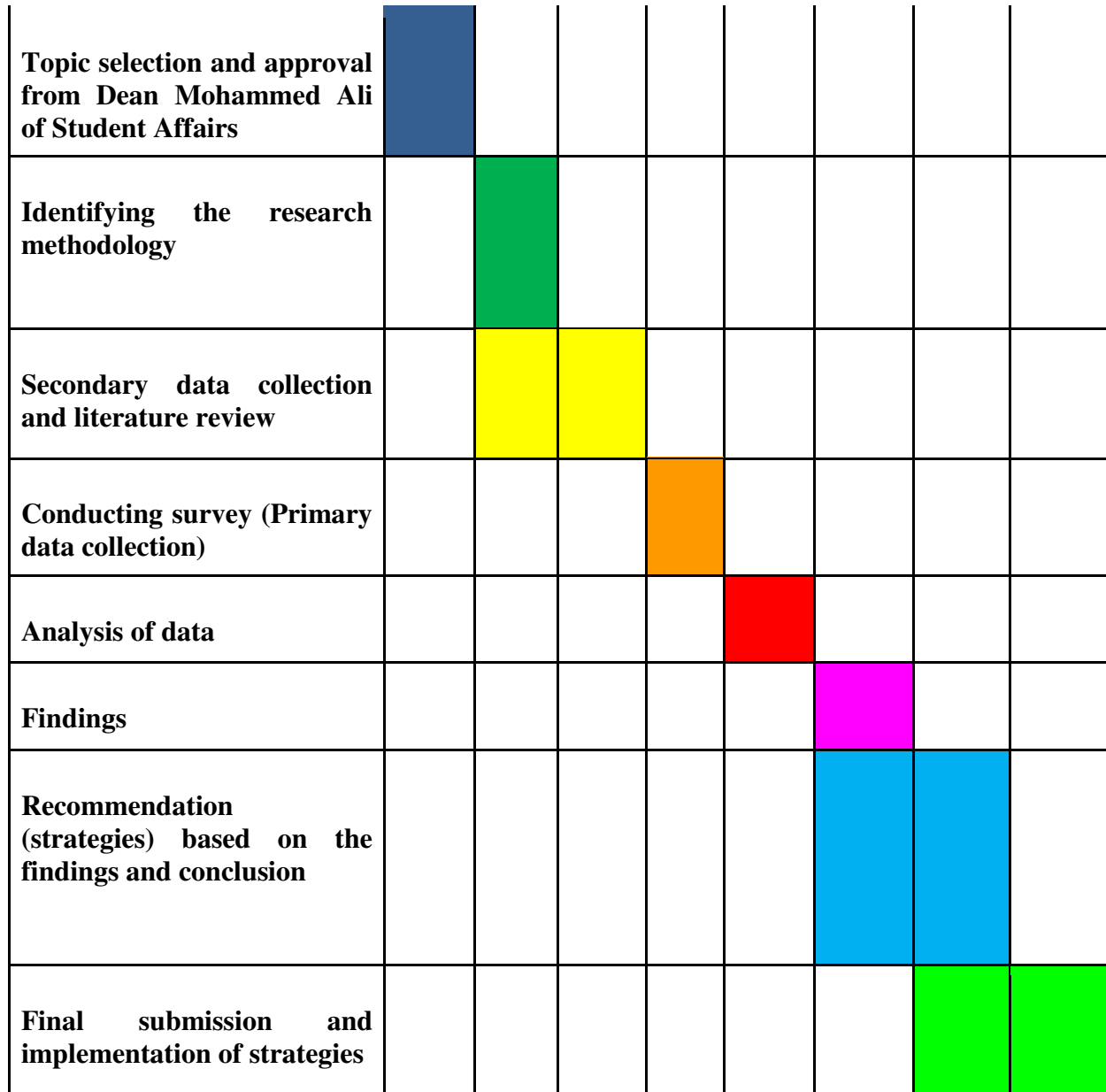


Figure 2: Timeline for research project  
(Source: Developed by author)

### Human, Material and Financial Resources

The Human resources require participants for the survey, as well as the staff and regulatory bodies for the implementation of the strategies within *AlFaisal University*. Material and financial resources are highlighted in Table 1.

Materials	Cost (in SAR)
Stationary, apps and software for conducting	5,000

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survey and developing questionnaire	
Online library subscriptions for gathering secondary information/ data	500
Advertisement for the survey/ research	2,000
<b>Total</b>	<b>7,500 SAR</b>

**Table 1: Budget breakdown for research**  
(Source: developed by author)

**References**

- Export.gov. (2019). United Arab Emirates - Water | export.gov. Retrieved 15 November 2019, from <https://www.export.gov/article?id=United-Arab-Emirates-Water>
- Kandeel, A. (2017). Climate Change: The Middle East Faces a Water Crisis. Retrieved 15 November 2019, from <https://www.mei.edu/publications/climate-change-middle-east-faces-water-crisis>