# GUIDELINES FOR
# STRUCTURE OF RESEARCH PROPOSAL

1. **Cover page & Declarations:**
   This page may be prepared as per the enclosed format.

2. **Abstract (not more than 1000 words):**
   The importance of the research work must be highlighted with motivation, a brief summary of main contributions and potential applications.

3. **Introduction, Literature Survey & Research Gap:**
   - A scholar must refer to the previous researches done in the similar area where the majority of the articles referred should not be older than 8 years. This exercise helps a scholar to get a clear vision of the necessary concepts, restrict for any duplication of research being proposed, and exposes the gap between established knowledge and the present situation.

   - Justify the motivation/need for the research – what prompts you to do the research supporting the research gaps mentioned.

4. **Problem Statement (not more than 100 words):**
   A single statement indicating the problem that is going to be addressed through this research

5. **Objective(s) and Scope:**
   - There may be so many dimensions to the research problem, but one may not have enough resources or time to study all dimensions. Therefore it is recommended to list the objectives to, in fact, draw the boundary for the research work w.r.t to doctoral study timeframe.

   - Objective/Scope of the research work should be clearly pointed out a minimum of 3 objectives should be present, they may further contain sub objectives

6. **Research Methodologies,**
   - Theoretical framework – explains the model or the set of theories related to the phenomenon being studied.

   - Sources of data – Primary or secondary or both the kinds of data may be used. What could be the probable sources of the secondary data applicable to the research? Sampling – in case primary data is to be collected, the technique of collection needs to be explained (refer to the study material on Research Methodology)

   - Statistical tools, if applicable. (for e.g. histograms, pie-charts, correlation, regression, tests of significance etc.)

   - Kindly ensure that a schematic flow diagram is shown for better understanding

7. **Evaluation Criteria:**

    Indicate the parameter/metrics on which your solution is going to be evaluated

8. **Gant Chart:**

    Depict phase wise progress of the proposed research from literature study onwards till thesis submission with a minimum of 8 components

9. **Conclusions:**

    In this part, the highlights or the main contributions of the dissertation work must be clearly pointed out.

10. **References:**

    All the references (journal papers / books) cited in the Synopsis must be given in the journal format use APA format for citing the references

    <u>**Sample example:**</u>

    ***Journals:***

1. Sharma, M., Banerjee, S., & Paul, J. (2022). Role of social media on mobile banking adoption among consumers. Technological Forecasting and Social Change, 180, 121720.
2. Abir, S. M., Islam, S. N., Anwar, A., Mahmood, A. N., & Oo, A. M. T. (2020). Building resilience against COVID-19 pandemic using artificial intelligence, machine learning, and IoT: A survey of recent progress. IoT, 1(2), 506-528.

    ***Book Chapters:***

1. Talatahari, S., & Azizi, M. (2021). An extensive review of charged system search algorithm for engineering optimization applications. Nature-Inspired Metaheuristic Algorithms for Engineering Optimization Applications, 309-334.
2. Scheibner, J., Sleigh, J., Ienca, M., & Vayena, E. (2021). Benefits, challenges, and contributors to success for national eHealth systems implementation: a scoping review. Journal of the American Medical Informatics Association, 28(9), 2039-2049.

    ***Book:***

1. Tuten, T. L., & Solomon, M. R. (2017). Social media marketing. Sage.
2. Reed, T. V. (2018). Digitized lives: Culture, power and social change in the internet era. Routledge.

<u>**Logo To be Used**</u> **(scale it apportionately)**