

## An introduction to Research Methodology: Road to doctoral program

**Course objective:** The aim of the course is to ensure that the candidate is able to:

1. Understand and appreciate nuances of research process
2. Have clarity of concepts, which will be the building blocks for research
3. Have a reasonably deep understanding of the research process
4. Generate a research paper by himself / herself with mentoring from faculty

Module	Session	Chapters
I Introduction to Research	1	Science and scientific research
	2	Thinking like a researcher
	3	Research process
	3a	Literature Review, Theory, Research Methods, Data collection, Data analysis
	4	Theories in scientific research
II Basics of empirical research	5	Research design
	6	Measurement of constructs
	7	Scale reliability and validity
	8	Sampling
III Data collection	9	Survey research
	10	Experimental research
	11	Case research
	12	Interpretive research
IV Data analysis	13	Qualitative analysis
	14	Quantitative analysis: Descriptive statistics
	15	Quantitative analysis: Inferential statistics
V Report writing	16	Thesis, Paper and publication process

**Phase I: Taught course work:** Course duration: 2 to 3 months. PPTs and other reading materials will be shared during the session phase.

**Classes:**

- Conducted online as well as offline at pre-determined sessions
- Both weekdays as well as weekend classes are available

**Phase II: Paper writing phase:** This phase consists of the candidate generating a research paper with mentoring help from faculty of eMBarkers. But this timeframe depends on initiative taken by the student. However, we expect a candidate to complete this in around 3 to 6 months' time.

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