



## **SYMBIOSIS INTERNATIONAL (DEEMED UNIVERSITY)**

(Established under section 3 of the UGC Act 1956)

**Re - accredited by NAAC with 'A' Grade**

**Founder: Prof. Dr. S. B. Mujumdar, M.Sc., Ph.D. (Awarded Padma Bhushan and Padma Shri by President of India)**

(Established under section 3 of the UGC Act 1956, by notification No.F.9-12/2001-U3  
Government of India)

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### **Sub Committee - Specialization for Curriculum Development (QS & A)**

#### **Post Graduate/ Under Graduate**

## **PhD**

**Course Name:** Research Methodology

**(UG/PG):** PG

**Number of Credits:**02

**Course No.** QS&A P 12

**Level:**04

**Learning Objective(s):**

1. To enable students comprehend research issues
2. To enable students to identify research questions and formulate research hypothesis
3. To equip students with various techniques of research design and data collection
4. To enable students to synthesize qualitative and quantitative data crunching techniques

**Pedagogy:**

1. Cases
2. Live Projects

**Pre-learning:**

Basic Statistics

## Course Outline

S.No.	Topic	Hours
01	<b>Introduction to Research</b> <ul style="list-style-type: none"> <li>• Types of research</li> <li>• Research Process</li> </ul>	04
02	<b>Literature Review</b> <ul style="list-style-type: none"> <li>• Traditional Literature review</li> <li>• Systematic Literature Review</li> <li>• Critical Literature review</li> <li>• Grouping variables through Literature review</li> <li>• Primary and Secondary data and exploration</li> </ul>	04
03	<b>Theoretical Framework and Hypothesis Formulation</b> <ul style="list-style-type: none"> <li>• Direct Linkage Model</li> <li>• Indirect Linkage Model</li> <li>• Control Variable Treatment</li> <li>• Moderating Variables</li> <li>• Mediating Variables</li> <li>• Intervening Variables</li> <li>• Cofounding Variables</li> <li>• Exogenous and Endogenous variables</li> <li>• Formulation of Hypothesis and Research questions</li> </ul>	06
04	<b>Research Design</b> <ul style="list-style-type: none"> <li>• Types of Research design</li> <li>• Instrument design, Scale formation</li> <li>• Sampling Design</li> <li>• Data Collection methods</li> <li>• Reliability test of Instrument</li> <li>• Validity test of Test of Data</li> </ul>	06
05	<b>Data Analysis&amp;Interpretation</b> <ul style="list-style-type: none"> <li>• Descriptive Analysis</li> <li>• Normality tests</li> <li>• Outlier tests</li> <li>• Data Reduction</li> <li>• Hypothesis testing</li> </ul>	06
06	<b>Referencing</b> <ul style="list-style-type: none"> <li>• APA format</li> <li>• Harvard Style</li> <li>• IEEE format</li> <li>• MLA format</li> </ul>	02
07	<b>Report Writing</b>	01
08	<b>Ethical Practices in Research</b> <ul style="list-style-type: none"> <li>• Plagiarism</li> <li>• Introduction to plagiarism software</li> <li>• Legal, Governmental and other norms</li> </ul>	01
	<b>Total</b>	<b>30</b>

**Books Recommended**

1. Adler, Stier and Clark, How it's done: An Invitation to Social Research
2. Becker, Writing for Social Sciences: How to start and finish your thesis, book, or article
3. Cooper, Schindler, Social Sciences Research Methods:
4. Salkind, Exploring research

**Suggested Evaluation Methods:**

Projects and written exams

**Parallel/Similar courses the existing curriculum:**

S.No.	Name of the course	Institute where it was offered
01	Research Methodology	SITM, SIOM, SCMS-P, SSE

Name of Member	Prof. SandeepPrabhu	Prof. RameshwarDubey	Prof. Vani Rajesh	Prof. IshitaGhosh	
Designation	Assistant Professor				
Org. / Inst.	SITM	SIOM	SCMS (P)	SSE	
Signature					

Name of the Expert: Prof. Asmita Chitnis

Signature:

Date: