



National Institute of Technology Meghalaya

An Institute of National Importance

CURRICULUM

Programme	Doctor of Philosophy (Ph.D.)	Year of Regulation	2020-21
Department	Humanities and Social Sciences (HS)	Semester	I

Course Code	Course Name	Credit Structure				Marks Distribution			
		L	T	P	C	INT	MID	END	Total
HS 710	Research Methodology	3	0	0	3	50	50	100	200

Course Objectives	This course introduces the Fundamentals, Methods, Approaches, Process and Ethics of conducting Research	Course Outcomes	CO1	Able to understand the Fundamentals, Methods, Approaches, Process and Ethics of conducting Research
	This course explains the concepts of Measurement Scales and Evaluation		CO2	Able to understand the concepts of Measurement Scales and Evaluation and to develop the skills of Sampling and Data Analysis
	This course illustrates the skills of Scholarly Writing		CO3	Able to understand and develop the skills of Scholarly Writing

SYLLABUS

No.	Content	Hours	COs
I	Fundamentals of Research Meaning and Concepts of Research; Characteristics and Objectives of Research; Criteria of Good Research; Languages of Research; Types of Research; Psychological Tips; Motivation in Research; The Scholar and the Mentor; Institute Rules and Guidelines	6	CO1
II	Research Methods and Approaches Orientation to Basic Research Methods and Approaches; Research Methods; Research Approaches; Qualitative and Quantitative Research; Which Methods and Approaches to Choose? Current Trends in Research	6	CO1
III	The Research Process Review of Literature; Identifying the Research Problem; Research Hypotheses; Sampling and Data Analysis; Interpretation of Results and Claims	8	CO1, CO2
IV	Measurement Scales and Evaluation Concepts of Measurement Scales; Primary Levels of Measurement; Classification of Measurement Scales; Validity and Reliability Analysis	6	CO2
V	Research Ethics and IPR Ethical Issues; Intellectual Property Rights; Patent Law; Commercialization; Copyright; Royalty; Trade-Related Aspects of Intellectual Property Rights (TRIPS)	4	CO1
VI	Scholarly Writing Characteristics of Scholarly Writing; Standard Guidelines; Critical Reviews; Research Proposals; Research Reports; Thesis/Dissertations; Research Papers; Impact Factor of Journals; Citation and Acknowledgement; Plagiarism and Self-Plagiarism; Reproducibility and Accountability	6	CO3
Total Hours		36	

Essential Readings

1. C. R. Kothari and G. Garg, “Research Methodology: Methods and Techniques”, New Age International Publishers, 4th Multi-Colour Edition, 2019
2. P. J. Schloss and M. A. Smith, “Conducting Research”, Prentice-Hall, 1999.
3. R. Kumar. “Research Methodology: A Step-by-step Guide for Beginners”, Sage Publications, 4th Edition, 2014.

Supplementary Readings

1. D. Madsen, “Successful Dissertations and Theses”, Jossey-Bass, 1st Edition, 1983.
2. D. Sternberg, “How to Complete and Survive a Doctoral Dissertation”, St. Martin’s Press, 1981.
3. G. B. Davis and C. A. Parker, “Writing the Doctoral Dissertation: A Systematic Approach”, Barron’s Educational Series, 3rd Edition, 2012.
4. J. D. Lester and J. D. Lester Jr., “Writing Research Papers: A Complete Guide”, Longman, 15th Edition, 2014.
5. James E. Mauch and Namgi Park, “Guide to the Successful Thesis and Dissertation: A Handbook for Students and Faculty”, Marcel Dekker, Inc, 2nd Edition, 1989.
6. K. L. Turabian, “A Manual for Writers of Term Papers, Thesis, and Dissertations”, University of Chicago Press, 1973.
7. S. Gash, “Effective Literature Searching for Research”, Gower, 2nd Revised Edition, 1989.
8. W. G. Bowen and N. L. Rudenstine, “In pursuit of the Ph.D.”, Princeton University Press, 1992.