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| Image result for nit meghalaya logo | **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** |
| CourseCode | 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** |
| CourseObjectives | 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
 |
| 1. P. J. Schloss and M. A. Smith, “Conducting Research”, Prentice-Hall, 1999.
 |
| 1. R. Kumar, “Research Methodology: A Step-by-step Guide for Beginners”, Sage Publications, 4th Edition, 2014.
 |
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| **Supplementary Readings** |
| 1. D. Madsen, “Successful Dissertations and Theses”, Jossey-Bass, 1st Edition, 1983.
 |
| 1. D. Sternberg, “How to Complete and Survive a Doctoral Dissertation”, St. Martin’s Press, 1981.
 |
| 1. G. B. Davis and C. A. Parker, “Writing the Doctoral Dissertation: A Systematic Approach”, Barron’s Educational Series, 3rd Edition, 2012.
 |
| 1. J. D. Lester and J. D. Lester Jr., “Writing Research Papers: A Complete Guide”, Longman, 15th Edition, 2014.
 |
| 1. 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.
 |
| 1. K. L. Turabian, “A Manual for Writers of Term Papers, Thesis, and Dissertations”, University of Chicago Press, 1973.
 |
| 1. S. Gash, “Effective Literature Searching for Research”, Gower, 2nd Revised Edition, 1989.
 |
| 1. W. G. Bowen and N. L. Rudenstine, “In pursuit of the Ph.D.”, Princeton University Press, 1992.
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