

Course Work Syllabus

Ph.D in Yogic Science 2021

Department of Human Consciousness and Yogic Sciences Mangalore University Mangalagangothri – 574 199

MANGALORE UNIVERSITY

Scheme of Examination for Ph. D Course Work

Papers	Particulars	Hours of Instruction per week	Duration of Exam (hrs)	Marks		}	Credits
				IA	Theory	Total	
Course	Research	4	3	30	70	100	4
1	Methodology						
Course	Research and	2	3	30	70	100	2
2	Publication						
	Ethics (RPE)						
Course	Review of		-	-	-	150	6
3	Literature	14					
	Review Report	4	-	-	-	50	2
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	Total 400						

DEPARTMENT OF HUMAN CONSCIOUSNESS & YOGIC SCIENCES

MANGALORE UNIVERSITY, MANGALAGANGOTHRI-574 199.

Ph. D Course work

Course 1 - Research Methodology (Optional I-Yogic Science)

48 Hrs

Unit I

- 1. Basis of Research Methodology Objectives, Types of Research
- 2. Research and Scientific Method; Research Process: Review of literature, Sources of Information, content of a Research Paper, Thesis writing, Writing projects; Research Problem Techniques involved in defining a problem
- 3. Hypothesis Concepts of Hypothesis, Bibliography, Composal of thesis, Errors in Hypothesis Testing, Tests of Hypothesis.
- 4. Research design Concepts related to research design, Principles of Experimental design; Sampling design, Data collection

Unit II

- 1. Research analysis and Statistics in Research Statistical Measures
- 2. Statistical Tests 't' test, Chi-square test, F test, ANOVA, ANCOVA, Non parametric tests.
- 3. Graphical Analysis, Computer Applications in Research, Softwares, Origin and Excel.
- 4. Plagiarism tools and Research ethical issues.

Unit III

- 1. Theoretical Foundations for Research in Patanjala Yoga Sutra
- 2. Theoretical Foundations for Research in Hathayoga & Ghata Yoga
- 3. Theoretical Foundation to Yogic Diet and Life Style
- 4. Principles of Yogic Research

Unit IV

- Development in Yogic Science –Texts, Translations and Explanations, Theoretical publications, Modified literatures
- 2. Development in Yogic Science Scientific development, Analysis of Yoga practices in Institutions with scientific methods.
- 3. Yogic science in university system
- 4. Development in Health System

Course 1 - Research Methodology (Optional II-Yoga Therapy)

48 Hrs

Unit I

- 1. Basis of Research Methodology Objectives, Types of Research
- 2. Research and Scientific Method; Research Process: Review of literature, Sources of Information, content of a Research Paper, Thesis writing, Writing projects; Research Problem Techniques involved in defining a problem
- 3. Hypothesis Concepts of Hypothesis, Bibliography, Composal of thesis, Errors in Hypothesis Testing, Tests of Hypothesis.
- 4. Research design Concepts related to research design, Principles of Experimental design; Sampling design, Data collection

Unit II

- 1. Research analysis and Statistics in Research Statistical Measures
- 2. Statistical Tests -'t' test, Chi-square test, F test, ANOVA, ANCOVA, Non –parametric tests.
- 3. Graphical Analysis, Computer Applications in Research, Softwares, Origin and Excel.
- 4. Plagiarism tools and Research ethical issues.

Unit III

- 1. Yoga Therapy Concepts for Research in Patanjala Yoga Sutra
- 2. Yoga Therapy Concepts for Research in Hathayoga & Ghata Yoga
- 3. Yoga Therapy Concepts with respect to Diet and Life Style
- 4. Principles of Research in Yoga Therapy

Unit IV

- 1. Recent Developments in Yoga Therapy
- 2. Development in Yoga Therapy Scientific development, Analysis of Yoga Therapy in Institutions with scientific methods.
- 3. Yogic science in university system
- 4. Yoga Therapy development in Health System

REFERENCE BOOKS

1.	Goode, W.I. (2006)	:	'Method in Social Research', Surject Publications, Delhi
2.	Gore, M.M. (2000)	:	'Anatomy and Physiology of Yogic Practices', Lonavala, Pune.
3.	Hariharananda Aranya	:	Yogasutras of Patanjali, University of Calcutta Press, Calcutta.
4.	J. S.P. Lumby and W. Benjamin	:	Research – some Ground Rules, Oxford University Press, Delhi.
5.	James Funderburk	:	A Review of Physiological data, Published by Himalaya International Institute of Yoga
6.	Kerlinger, F.N (2002)		'Foundation of Behavioural research', Prism Books, Bangalore, Sujeet Publications, Delhi.
7.	Krishna Bhat, K (2006)		'The Power of Yoga', Suyoga Publications, Karopady, D.K
8.	Kuvalayananda (1972)	750	'Asana', Kaivalyadhama Publications, Lonavala, Pune.
9.	Kothari, C.R. (1985)	:	'Research Methodology, Methods & Techniques', Wishwa Prakashan, New Delhi.
10.	Krishna Raman (2000)	:	A Matter of Health, Integration of prevention and cure, East West Books (Madras), Pvt.Ltd., Ormes road, Kilpauk, Chennai 600020
11.	Mohisin	:	Research Methods in Behavioural Sciences, S.M.Orient Longman Limited, New Delhi.

12.	Nachmias D (1982)	: 'Research Method in Social Sciences', Nachmias C St.Martins Press, New York, Edward Arnold, London
13.	Nagendra H.R (1948)	: New Horizons in Modern Medicine, SVYASA, Bangalore.
14.	Nagendra H.R.	: Promotion of Positive Health – Published by SVYASA, Bangalore
15.	O.P.Tiwari (1991)	: Asana, Why & How, Kaivlyadhama, Lonavala.
16.	Russell A Jones	: Research Methods in the Social and Behavioral Science, Sinauer Associates, Saunderland's Massachusetts publishers.
17.	Rummond A (1996)	Research Methods for therapists, Campling, J and Nelson T.
18.	Richard A. Johnson, Deans W. Wichern	: Applied Multivariate Statistical Analysis
19.	SMYM Samiti	: 'Yoga Mimāmsa', A Quarterly Journal, Kaivalyadhama
20.	Swatmarama (1970)	: Hathayoga Pradipika, Kaivalyadhama, Lonavala, Pune.
21.	Swami Satyananda Saraswati (1996)	: 'Asana, Pranayama, Mudra, Bandha', Bihar School of Yoga, Munger.
22.	Swami Satyananda Saraswathi	: 'A systematic course in the ancient tantra techniques of Yoga & Kriya', Bihar School of Yoga, Munger.

23. Swami Vivekananda (1899) : Rajayoga, Adhvaita Ashrama, Kolkatta.

24. Swami Digambaraji (1978) : Gheranda Samhita, SMYM Samiti, Kaivalyadhama, Lonavala.

25. Krishnamacharya T. (2004)
 : Nāthamauni's Yoga Rahasya, Krishnamacharya Granthamala Series – II, Krishnamacharya Yoga Madiram, 31, 4th cross street, R.K.Nagara, Chennai- 600028.

26. Swami Omananda Teertha : Patanjala Yoga Pradeepa, Gita Press, Gorakhpur.

27. The Journal of Alternative : The Official monthly journal of the International & Complementary Medicine Society for Complementary Medicine Research and the Society for Acupuncture Research, Mary Ann Liebert, Inc. Publishers, 140 Huguenot Street, 3rd

Floor, New Rochelle 108015215.

28. Udupa K.N. (1996) : Stress and its Management by Yoga, Mothilal Banarsidas Publications, Delhi.

Note: Other references as decided by the department from time to time.

THEORY

01. PHILOSOPHY AND ETHICS (3 HOURS)

- 1) Introduction to philosophy: Definition, nature and scope, Concept, Branches.
- 2) Ethics: Definition, Moral philosophy, Nature of moral judgements and reactions.

02. SCIENTIFIC CONDUCT (5 HOURS)

- 1) Ethics with respect to science and research.
- 2) Intellectual honesty and research integrity.
- 3) Scientific misconducts: Falsification, Fabrication and Plagiarism (FFP)
- 4) Redundant publications: Duplicate and overlapping publications, Salami Slicing
- 5) Selective reporting and misrepresentation of data

03. PUBLICATION ETHICS (7 HOURS)

- 1) Publication ethics: definition, introduction and importance
- 2) Best practices / standards setting initiatives and guidelines: COPE, WAME, etc.
- 3) Conflicts of interest
- 4) Publication misconduct: definition, concept, problems that lead to unethical behavior and vice versa, types
- 5) Violation of publication ethics, authorship and contributor-ship
- 6) Identification of publication misconduct, complaints and appeals
- 7) Predatory publishers and journals

PRACTICE

04. OPEN ACCESS PUBLISHING (4 HOURS

- 1) Open access publications and initiatives
- SHERPA or RoMEO online resource to check publisher copy right and selfarchiving policies
- 3) Software tool to identify predatory publications developed by SPPU
- 4) Journal finder or Journal suggestion tools viz. JANE, Elsevier Journal Finder, Springer Journal Suggester, etc.

05. PUBLICATION MISCONDUCT (4 HOURS)

- A. Group Discussion (2 Hours)
 - 1) Subject specific ethical issues, FFP, Authorship
 - 2) Conflicts of interest
 - 3) Complaints and appeals: Examples and fraud from India and abroad.
- B. Software tools (2 Hours)

Use of Plagiarism software like Turnitan, Urkund, and other open-source software tools.

06. DATABASES AND RESEARCH METRICS (7 HOURS)

- A. Databases (4 Hours)
 - 1) Indexing databases

- 2) Citation databases: Web of Sciences, Scopus, etc.
- B. Research Metrics (3 Hours)
 - Impact Factor of Journal as per Journal Citation Report, SNIP, SJR, IPP, Cite Score
 - 2) Metrics: h-index, g-index, i10-index, altimetric

References

Bird, A. (2006). Philosophy of Science. Roultledge.

MacIntyre, Alasdair (1967) A Short History of Ethics. London.

P. Chaddah, (2018) Ethics in Competitive Research: Do not get scoped: do not get plagiarized, ISBN:978-9387480865

National Academy of Sciences, National Academy of Engineering and Institute of Medicine. (2009). *On Being a Scientist: A Guide to Responsible Conduct in Research: Third Edition*. National Academies Press.

Resnik, D. B. (2011). What is ethics in research and why is it important. *National Institute of Environmental Health Sciences*, 1-10. Retrieved from https://www.niehs.gov./research/ resources/bioethics/whatis/index.cfm Beall, J. (2012). Predatory publishers are corrupting open access. Nature, 489(7415), 179-179.

https://doi.org/10.1038/489179a

Indian National Science Academy (INSA), Ethics in Science Education, Research and Governance (2019), ISBN:978-81-939482-1-7.

http://www.insaindia.res.in/pdf/Ethics Book.pdf

Course 3 - Review of Literature and Report

14 Hrs/Week

Unit I Review of published research papers in the area of research

Unit II Review of classical literature

Unit III Review of parameters and statistical tests applicable

Note: References as decided by the department from time to time