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SRI SATYA SAI UNIVERSITY OF TECHNOLOGY AND MEDICAL SCIENCES

BOARD OF STUDIES MEETING(BOS) & SYLLABUS

Department/Program-Physical Education/PhD

2017-18 TO 2021-22

www.sssutms.co.in

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**Sri Satya Sai University of Technology and Medical Sciences
Sehore**

School of Physical Education

Minutes of Board of Studies Committee Meeting

The Board of Studies Committee meeting was held on dated 8th April 2014 in the room of School of Physical Education at 12.00 pm. The following members were present in the meeting.

1. Dr Minakshi Pathak(Chairman) 
2. Dr Keshav Singh Gurjar (Subject Expert) 
3. Dr Pushpendra Sharma (Dy. Registrar Academics)
4. Dr. Satyendra Singh Tomar (Member) 
5. Mr. Vikas Thakur (Member) 

The Chairman of Board of Studies Committee welcomes to all the presented members in the meeting. The following agenda were discussed and resolved in the meeting.

Agenda: Creation of a new syllabus for Ph.D. students with a new university. In the syllabus, two-course works were decided, the first coursework of six months followed by the second coursework of six months.


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In the first course work, the research methodology subject was kept, which will be general for all. And the second subject will be related to subject specialization. In the second course work, the first subject will be review of related literature and the second related to subject specialization.

In the end of meeting the Chairman thanks to all the members for peaceful conduction of meeting. (Minutes of Meeting and copy of Syllabus is forwarded to the academic council for further approval).



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Course Work (I)

Paper –I (Research Methodology)

(Common to all faculties)

1- Introduction & Research design:-

Nature and objectives of research. Methods of Research: historical, descriptive and experimental. Research process, research approaches, criteria for good research.

Meaning of research design, need of research design, features of good design, different research designs. and basic principles of experimental designs, design of experiments.

2- Data collection & Analysis:-

Types of data, methods and techniques of data collection, primary and secondary data analysis. Historical methods, content analysis, devices used in data collection. Pilot study and pretest of tools, choice of data collection methods

3- Processing and analysis of data:-

Measures of Central Tendency, Measures of Dispersion, Measures of Variation. Measures of Central Tendency vs. Measures of Dispersion , Normal distribution, Measures of Skewness and interpretation, Correlation and Regression: Types & applications, Chi-square test: its purpose and use.

4- Paper writing and report generation:-

Basic concept or Paper / thesis writing and report generation, writing Research Abstract, Introduction review of literature. Result, Conclusion, Concepts of Bibliography and References significance of report writing, steps of report writing, Types of Research reports. Methods of presentation of report. Formats of publication in research general.

5- Computer Applications:-

Application of computer in research. Generating charts/ graph in Microsoft Excel, power. Point presentation, Web Search: Introduction to Internet, Use of internet and WWW. Using search engine like Google, Yahoo etc.


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Reference Books: Latest Editions of following Books

- 1- Kothari C.R. Research Methodology (Methods and Techniques) New age publisher.
- 2- Donald R. Cooper. Pamela S. Schindler, Business Research Methods. Tata McGraw-Hill Co. Ltd.
- 3- Bandat and Picrsol, Random data Analysis and Measurement Procedures. Wiley interscience.
- 4- Raymond Greenlaw, Inline/Online Fundamentals of the Internet and the World Wide Web, Tata McGraw-Hill Co. Ltd.
- 5- John W. Creswell. Research Design, SAGE publications, INC.
- 6- Trivedi R N & Shukla D.P., Research Methodology, College book depo. Jaipur.
- 7- Bill Taylor, Gautam Sinha & Taposh Ghoshal, Research Methodology. Prentice Hall of India Private Ltd, New Delhi.


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SYLLABUS OF Ph.D. COURSE WORK

SUBJECT- PHYSICAL EDUCATION

Unit-I

- Meaning of Research. Need and Importance and its scope in Physical Education.
- Formulation and Development of Research problem. Formulation of hypothesis.
- Research report, Abstract and Research proposal.

Unit-II

- Historical Research, Scope and Validity of historical data.
- Survey studies : tools of survey reserch, Questionnare and interview.

Unit-III

- Case studies : Definition and importance.
- Characterization of case studies, Data collection in case studies.
- Experimental Research : Meaning, scope and nature.
- Experimental design, control of Experimental factors.

Unit-IV

- Use of statistical application in Physical Education and Sports research.
- Sampling : Simple and stratified random sampling, Standard error.
- Relation between bionomical and normal curve, skewness kurtosis, standard scales.
- Percentile Z, T, 60 and 70 scales.
- Reliability limits, Null hypothesis. Type I and II errors. One tail and Two tails tests.
- Coefficient of variation, sampling error. Analysis of variance.


Unit-V

- **Introduction** to computer: Hardware and Software (Only preliminary concept).
- **Introduction** to Opertaing system: Need, functions and control programme.
- **Introduction** to Window, MS Office, Word, Excel, Power Point, Word Processing, Printing.

Reference:

1. Best, John W. Research in Education, New Delhi: Prentice Hall of India (P) Ltd. 1963.
2. Campbell William. G. Form and Style in Thesis writing, Broton : Houghten Moffin Company, 1954.
3. Charke David H. and Clarke H. Harrison. Research Process in Physical Education, Recreation and Health Englewood Cliffor N.J. Prentice Hall Inc. 1979.
4. Robson, M Bara T.S. and Uppal A.K: Thesis format Gwalior: LNCPE 1979.
5. Blommers Paul and Lindquist, E.F. Statistical methods in Psychology and Education Calcutta: Oxford Book Co. 1959.
6. Guilford, J.P. Fundamental Statistics in Psychology Education New York : McGraw Hill Book Co. Inc. 1966.
7. Steel, Robert G.D. and Torrie, James A: Principles and Procedures of Statistics, New York; McGraw Hill Book Co. 1960.
8. Taxali R.K.: P.C. Software made Simple, TMH.
9. Sinha P.K.: Computer Fundamentals BPB.
10. Cowart, R.: Mastering Windows, BPB.
11. Mansfields : The Compact Guide to M.S. Office, BPB.


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Course Work
Semester - II
Paper – I Review of Literature
(Common to all faculties)

Max. Marks: 100

Min. Marks: 65

Unit-I: - Review of literature for research work, meaning of literature review, significance of review of literature, Published research work, Old literature from other sources.

Unit-II: - Likert Scale, Meaning and utility of Likert Scale. Illustration of Likert scale. Review Quality Instrument (R.Q.I.) , dominant elements of Review Quality Instrument.

Unit-III: - Research Process, Initialization of research process, Use of review of published research work in deciding the research topic. Bibliography and References

Unit-IV: - Published research work, sources of published research work, Research Journals, Peer review research journals, Conferences and seminars proceedings, magazines, Newspapers, Lecture series.

Unit V:- Salient features of review of published research work, analysis of published work, suitability of published work. Criterion for review of published research work, practical procedures for reviewing.

References:-

1. Kothari, C.R., Research Methodology (Methods & Techniques), New Age Publishers.
2. "How to Research" by Loraine Blaster, Christina Hughes & Malcolm Tigh (Viva Books)
3. "The Craft of Scientific Writing" by Michael Alley (Springer)
4. "Survival skills for Scientists" by Federico Rosel & Tudor Johnson (Imperial College Press)
5. "How to write & Publish" by Robert A. Day and Barbara Gastel, (Cambridge University Press)
6. "A Students Guide to Methodology" by Peter Clough and Cathy Nut brown (Sage Publications.)
7. Swain, A.K. (2007). A text book on research methodology. Kalyani publishers: New Delhi


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Ph.D. Course Work II

PHYSICAL EDUCATION

Unit: I Professional preparation - (a) Teacher training programme in India - Certificate course undergraduate course. Higher education (Research) comparison of different course content. b) Professional organization in India.

Unit: II Socialization and social control through sports- (i) National and international Integration through sports ii) Women in sports iii) Yogic practice a way of Life. iv) Social culture through sports v) Group activities for Healthy social life. a) Modern Gymnasium b) Sports arenas c) Games and sports. Clubs and association d) Recreational values of sports e) Aerobic clubs. 16

Unit: III Lifelong Physical Education and Sports- (i) Physical Education for all-Exercise for disabled mentally retarded. ii) Need for continuous physical Education and sports. iii) Exercise and sports for keep fit for various age group (keep fit nation) iv) Physical and Health awareness for all communities (Professional)

Unit: IV Modern Technology in sports and Physical Education- (a) new apparatus and equipments. b) New Techniques in different sports and games. c) Use of new audio-visual Teaching in Physical Education and sports.

Unit: V Talent identification and Training- (a) junior training Programme- Principle task. b) Early recognition of talent - screening and selection with performance factor. c) Specific characteristics of anatomic, Physiological psychological and motor development of children and adults.

Reference Books:

- 1) Bucher: Foundation and Physical Education.
- 2) Barrow: Man and Movement.
- 3) Sunder Raj an: Bio-machanics of Sports and Games.
- 4) Bucher: Bio-Mechanics of Sports technique.
- 5) Adaws William C: Foundation of Physical Education Exercise and sports science.
- 6) B.K.S Iyenkar - Lighten Yoga.
- 7) B.K.S. Iyenkar - Pranayama.
- 8) Kamlesh - Psychology in Physical Education and Sports
- 9) Butler - fRecreation



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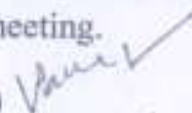
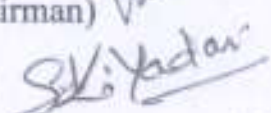
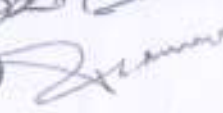
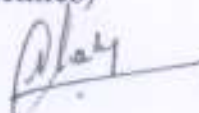
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School of Physical Education

Minutes of Board of Studies Committee Meeting

The Board of Studies Committee meeting was held on dated 10th May 2021 in the room of Block number 12 School of Physical Education at 12.00 pm. The following members were present in the meeting.

1. Dr Virendra Singh Panwar (Chairman) 
2. Dr S.K. Yadav (Subject Expert) 
3. Dr Praveen Saroha (Subject Expert) 
- 4 Dr Pushpendra Sharma (Dy. Registrar Academics)
5. Dr.Neelesh Chaubey (Member) — 
6. Mr.Vivek Jha (Member)

The Chairman of Board of Studies Committee welcomes to all the presented members in the meeting. The meeting calls for new syllabus of PhD program. The following agenda were discussed and resolved in the meeting.

The agenda of meeting for approval and update of syllabus of PhD course work for physical education.

At the end the meeting chairman thanks to all the members those were presented in the meeting, Minutes of meeting and copy syllabus is forwarded to the Academic Council for further approval.


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Research Methodology

Ph.D. Course Work (I) Syllabus


Sri Satya Sai University of Technology
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Research Methodology

Unit I:- Research Foundation:

Evolution of scientific inquiry and Research, definition, characteristics , types and objectives of Research, importance of Research methodology in scientific Research. Selection and formulation of Research problem. Research design: meaning of Research design, features of good research design , inductive, deductive, and development of models.

Hypothesis: Different types and significance, development of working Hypothesis, Null Hypothesis.

Unit II: - Review of Literature:

Meaning and Significance of review of literature, literature search procedure , sources of literature: primary and secondary sources, web source, critical literature review , Review Quality Instrument(RQI) .

Unit-III:- Data Collection And Analysis:

Data Collection Sources of data – primary, secondary and tertiary Types of data- categorical, nominal and ordinal methods of data collection: observations, field investigations, Direct studies: reports, record, or experimental observations.

Data analysis: graphical representation, descriptive analysis, inferential analysis, correlation analysis and regression analysis. Measure of central tendency, measure of dispersion, measure of variation, Measure of central tendency vs measure of dispersion, normal distribution, measure of skewness and interpretation, purpose and use of chi-square test. Data analysis by using statistical software's: MATLAB, MINITAB and SPSS. Hypothesis Testing, generalization, interpretation and modeling.

Unit IV :- Scientific Writing And Ethics:

Scientific Writing: Structure and components of research paper and thesis writing. Different steps in the preparation: Layout, structure, language, illustrations, tables, citation styles and Bibliography.

Ethics: Ethical issue, Ethical committees, commercialization, copy right , royalty, intellectual property, rights and patent laws, plagiarism, citation, acknowledgement, Reproducibility and accountability

Unit-V:- Computer Applications and Statistics:

Computer Applications Application of computer in research, M.S. Office and its applications. Internet and its applications: E-mail, www, Web browsing, acquiring technical skills, drawing inferences from data.

Statistics Introduction to Statistics - Probability Theories - Conditional Probability, Poisson distribution, Binomial Distribution and Properties of Normal Distributions, Estimates of Mean, mode, median and Proportions.

References:

1. Kothari, C.R.(2008). Research Methodology: Methods and Techniques. Second Edition New Age International Publishers, New Delhi.
2. Sinha, S.C. and Dhiman, A.,2002. Research Methodology, Ess Ess Publications.2 volumes.
3. Gupta S.P. (2008). Statistical Methods. 37thed. (Rev)Sultan Chand and Sons.New Delhi. 1470 p.
4. Leon & Leon (2202). Internet for everyone, Vikas Publishing House.
5. Wadehra, B.L.2000. Law relating to patents, trade marks, copyright designs and geographical indications. Universal Law Publishing.
6. Research Methodology Dr PM Bulakh,Dr P. S. Patki and DrAS Chodhary 2010OPublished by Expert Trading Corporation Dahisar West, Mumbai 400068
7. Statistical method for Research works by fisher R.A. Cosmo publication, New Delhi ISBN : 81-307-0128-6
8. Design and analysis of experiments by montgomery D.C., john wiley ,ISBN: 0471260088
9. MINITAB online manual
10. Methodology of Research in Social Science by O.R. Krishnaswamy and Rangnatham, Himalaya Publication Hore, ISBN: 8184880936
11. SPSS online manual.

SUBJECT SPECIALIZATION-I
SUBJECT: PHYSICAL EDUCATION

UNIT-I

- Define Physical Education, Need and Importance of Physical Education.
- Scope of Physical Education, Concept of Physical Education.
- Relationship of Physical Education with general Education.

UNIT-II

- Physical Education is an Art & Science,
- Biological growth and Development,
- Age & Growth Characteristics, Body Types

UNIT-III

- Case Study: Definition and importance.
- Characterization of case study, Data collection in case study.
- Experimental Research : Meaning, Scope and nature
- Survey Research, Concept of Survey research.
- Criteria of selection of problem, formulation of the problem.

UNIT-IV

- Use of statistical application in Physical Education and Sports research.
- Sampling : Simple and stratified random sampling, Standard research.
- Relation between bionomical and normal curve, skewness kurtosis, standard scale.
- Percentile Z, T, 60 and 70 scales.
- Reliability limits. Null hypothesis, Type I and II error, One tail and Two tails tests.
- Coeficient of variation, sampling

UNIT-V

- Learning types, Learning curve, Laws and Principles of Learning.
- Sociological: Society and culture, Leadership,
- Social acceptance and recognition.

References:

1. Best, John W. Research in Education, New Delhi: Prentice Hall of India (P) Ltd. 1963
2. Campbell Willian, G. Form and Style in Thesis writing, Broton: Houghten Moffin Company,
3. Charke David H. and Clarke H. Harrison. Research Process in Physical Education, Recreation and Health Englewood Cliffor N.J. Prentice Hall Inc. 1979.
4. Robson, M Bara T.S. and Uppal A.K: Thesis format Gwalior : LNCPE 1979.


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5. Blommers Paul and Lindquist, E.F. Statistical methods in Psychology and education Calcutta: Oxford Bool Co. 1959.
6. Guilford, J.P. Fundamental Statistics in Physiology Education New York : McGraw Hill Book Co. Inc.1966.
7. Steel, Robert G. D. and Torrie, James A: Principles and Procedures of Statistics, New York : McGraw Hill Book Co. Inc.1960.
8. Taxali R. K : P.C. Software made Simple, TMH.
9. Sinha P.K.: Computer Fundamentals BPB.
10. Cowart, R. : Mastering Windows, BPB.
11. Mansfields : The Compact Guide to M.S. Office, BPB.



Lecturer
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