

PAPER – I (COMPULSORY)

CW 01: RESEARCH METHODOLOGY AND COMPUTING

UNIT – I

Research concept: Introduction of Research methodology, nature, concept, objective and scope of research; Research motivation; Types and method of research; Concepts of abstract, review of literature. Quantitative and qualitative research.

UNIT – II

Research problem and design: Research problem – Identification, selection and its formulation; Research design – Components, materials, hypothesis and its importance; Research journals and research articles, Research project. Criteria of good research. Script Writing, Challenges and opportunities for good research in India.

UNIT – III

Research ethics: Basic concepts and issues, Institutional ethics, Intellectual property rights (IPR), Patents, copy right, Plagiarism, cyber laws, Impact factor, Citation, i10-index, h-index, Reference style, Journal Citation report (JCR), peer review process, referred journal, journal index database, preparation of manuscript.

UNIT – IV

Quantitative data analysis: Types and classification of data, Data collection and representation, tabulation, Sampling methods and size of samples, Central tendency, Standard deviation and error, Probability, Normal and Binomial distribution, Test of significance (t-test, F-test and Chi-square test), basic ANOVA, Correlation and regression.

UNIT – V

Computer fundamentals: Introduction, Software and Hardware; MS-Word, MS-Excel and MS-Power point, Document preparation system: La-Tex, PDF, Basics of computer Network and Internet, Data analysis and graph/ chart designing and preparing using specific software, Search engines, Google scholar, online paper submission system like Easy chair, Basic introduction of SPSS and MATLAB.

Books suggested –

1. Research methodology- Methods and Techniques (3/e): C. K. Kothari (2008), New Age International, New Delhi
2. Research Methodology: R. Panneerselvam (2nd Edition), PHI learning publication, India.
3. Research methodology in Behavioral Sciences (English and Hindi), S. K. Mangal, S. Mangal, PHR Learning publication, India.
4. Computer Fundamentals Architecture and organization by B.Ram and Sanjay Kumar, New Age International Publisher.
5. 2007 Microsoft Office System Step by step by Cox, Joyce etc. All, PHI Learning India.
6. Bio-statistical Analysis (5th /6th Edit.): Jerrold H. Zar, Pearson Education.
7. Experimental design: W. G. Cochran and M. G. Cox, John Wiley & Sons Publication, New Delhi.
8. Plagiarism: Why it happens, How to prevent it? – B. Gilmore.
9. Microsoft Office 2010: Introductory concepts and Techniques; G.B. Shelly & T.J. Cashman.
10. Design and analysis of experiments (5/e): Montgomery and Douglas (2007), Wiley Publication.

➤ *Any other books suggested by Course coordinator/ Course Teacher/ Supervisor concerned may be applied.*

PAPER-III

Review writing-Topic of review relevant to the proposed Ph.D work, Writing of research proposal, statement of problem, Objective, Hypothesis and plan of the thesis; Thesis writing, Formats of report writing, Formats of Publications in research Journals; Bibliography; Seminar presentation; Preparation of Research paper.

Books Suggested-

1. Strahler, A.N, Physical Geography, Willey, Newyork
2. Chorley. R.J. Spatial Analysis in Geomorphology, Methuen, London 1972.
3. Garner, H.F.: The Origin of Landscape –A Synthesis of Geomorphology, Oxford University Press, London, 1974.
4. सिंह, सविन्द्र- भू आकृति विज्ञान शारदा पुस्तक भवन, इलाहाबाद
5. Barry, R.G. and Chorley P.J.: Atmosphere, Weather and climate, Routledge London and Newyork, 1998.
6. Lal D.S.: Climatology, Chaitanya publication, Allahabad. 1986.
7. Gross, M. Grant Oceanography for Geographers 1962.
8. Taylor, G: Geography in the 20th Century.
9. Deshpande, C.D.: India-A Regional Interpretation. Northern Book Centre, New Delhi.
10. Singh, L.R.: Practical Geography
11. Bhat, L.S.: Regional Planning In India, Statistical Publishing Society, Calcutta, 1973.

Howley

Dr. D.D. Kashyap
PROFESSOR & HEAD
Department of Geography
Govt. Bilasa Girls P.G. College, Bilaspur (C.G.)

PAPER – III (COMPULSORY)

CW 03: REVIEW OF LITERATURE AND PRESENTATION

Part – A (50 Marks)

Review of Literature:

Writing of literature in the area of the proposed research work under Ph. D. program.

- It should be standard review comprises minimum fifty research articles belonging to peer reviewed journals (National and International).
- Candidate has to submit a report of reviewed literature in printed form to the department concerned at the time of presentation.

Part – B (50 marks)

Presentation:

- Seminar based on the review of literature with the help of PPT.

Signature (s) -

PAPER – I (COMPULSORY)**CW 01: RESEARCH METHODOLOGY AND COMPUTING****UNIT – I**

Research concept: Introduction of Research methodology, nature, concept, objective and scope of research; Research motivation; Types and method of research; Concepts of abstract, review of literature, Quantitative and qualitative research.

UNIT – II

Research problem and design: Research problem – Identification, selection and its formulation; Research design – Components, materials, hypothesis and its importance; *Knowledge of* Research journals and research articles, Research project. Criteria of good research, Script Writing, Challenges and opportunities for good research in India, *Major research funding organizations*

UNIT – III

Research ethics: Basic concepts and issues, Institutional ethics, Intellectual property rights (IPR), Patents, copy right, Plagiarism, cyber laws, Impact factor, Citation, i10-index, h-index, Reference style, Journal Citation report (JCR), peer review process, referred journal, journal index database, preparation of manuscript.

UNIT – IV

Quantitative data analysis: Types and classification of data, Data collection and representation, tabulation, Sampling methods and size of samples, Central tendency, Standard deviation and error, Probability, Normal and Binomial distribution, Test of significance (t-test, F-test and Chi-square test), basic ANOVA, Correlation and regression.

UNIT – V

Computer fundamentals: Introduction, Software and Hardware; MS-Word, MS-Excel and MS-Power point, Document preparation system: La-Tex, PDF, Basics of computer Network and Internet, Data analysis and graph/ chart designing and preparing using specific software, Search engines Google scholar, online paper submission system like Easy chair, Basic introduction of SPSS and MATLAB.

Books suggested –

1. Research methodology- Methods and Techniques (3/e): C. K. Kothari (2008), New Age International, New Delhi
2. Research Methodology: R. Panneerselvam (2nd Edition), PHI learning publication, India.
3. Research methodology in Behavioral Sciences (English and Hindi), S. K. Mangal, S. Mangal, PHR Learning publication, India.
4. Computer Fundamentals Architecture and organization by B.Ram and Sanjay Kumar, New Age International Publisher.
5. 2007 Microsoft Office System Step by step by Cox, Joyce etc. All, PHI Learning India.
6. Bio-statistical Analysis (5th /6th Edit.): Jerrold H. Zar, Pearson Education.
7. Experimental design: W. G. Cochran and M. G. Cox, John Wiley & Sons Publication, New Delhi.
8. Plagiarism: Why it happens, How to prevent it? – B. Gilmore.
9. Microsoft Office 2010: Introductory concepts and Techniques, G.B. Shelly & T.J. Cashman.
10. Design and analysis of experiments (5/e): Montgomery and Douglas (2007), Wiley Publication.

➤ *Any other books suggested by Course coordinator/ Course Teacher/ Supervisor concerned may be applied.*

Lasband
06/2/15

Elu

PAPER – III (COMPULSORY)

CW 03: REVIEW OF LITERATURE AND PRESENTATION

Part – A (50 Marks)

Review of Literature:

Writing of literature in the area of the proposed research work under Ph. D. program

- It should be standard review comprises minimum fifty research articles belonging to peer reviewed journals (National and International).
- Candidate has to submit a report of reviewed literature in printed form to the department concerned at the time of presentation.

Part – B (50 marks)

Presentation:

- Seminar based on the review of literature with the help of PPT.

Signature (s) -

Kashant
06/2/1

Elina
6/2/11

PAPER – I (COMPULSORY)

CW 01: RESEARCH METHODOLOGY AND COMPUTING

UNIT – I

Research concept: Introduction of Research methodology, nature, concept, objective and scope of research; Research motivation; Types and method of research; Concepts of abstract, review of literature; Quantitative and qualitative research.

UNIT – II

Research problem and design: Research problem – Identification, selection and its formulation; Research design – Components, materials, hypothesis and its importance; Research journals and research articles, Research project, Criteria of good research. Script Writing, Challenges and opportunities for good research in India.

UNIT – III

Research ethics: Basic concepts and issues, Institutional ethics, Intellectual property rights (IPR), Patents, copy right, Plagiarism, cyber laws, Impact factor, Citation, i10-index, h-index, Reference style, Journal Citation report (JCR), peer review process, referred journal, journal index database, preparation of manuscript.

UNIT – IV

Quantitative data analysis: Types and classification of data, Data collection and representation, tabulation, Sampling methods and size of samples, Central tendency, Standard deviation and error, Probability, Normal and Binomial distribution, Test of significance (t-test, F-test and Chi-square test), basic ANOVA, Correlation and regression.

UNIT – V

Computer fundamentals: Introduction, Software and Hardware; MS-Word, MS-Excel and MS-Power point, Document preparation system: La-Tex, PDF, Basics of computer Network and Internet, Data analysis and graph/ chart designing and preparing using specific software, Search engines, Google scholar, online paper submission system like Easy chair. Basic introduction of SPSS and MATLAB.

Books suggested –

1. Research methodology- Methods and Techniques (3/e): C. K. Kothari (2008), New Age International, New Delhi
2. Research Methodology: R. Panneerselvam (2nd Edition), PHI learning publication, India.
3. Research methodology in Behavioral Sciences (English and Hindi), S. K. Mangal, S. Mangal, PHR Learning publication, India.
4. Computer Fundamentals Architecture and organization by B.Ram and Sanjay Kumar, New Age International Publisher.
5. 2007 Microsoft Office System Step by step by Cox, Joyce etc. All, PHI Learning India.
6. Bio-statistical Analysis (5th /6th Edit.); Jerrold H. Zar, Pearson Education.
7. Experimental design: W. G. Cochran and M. G. Cox; John Wiley & Sons Publication, New Delhi.
8. Plagiarism: Why it happens, How to prevent it? – B. Gilmore.
9. Microsoft Office 2010: Introductory concepts and Techniques; G.B. Shelly & T.J. Cashman.
10. Design and analysis of experiments (5/e): Montgomery and Douglas (2007), Wiley Publication.

➤ *Any other books suggested by Course coordinator/ Course Teacher/ Supervisor concerned may be applied.*

R.P. Gupta
6-2-15



Mandley

PAPER – III (COMPULSORY)
CW-03: REVIEW OF LITERATURE AND PRESENTATION

Part – A (50 Marks)

Review of Literature:

Writing of literature in the area of the proposed research work under Ph. D. program.

- It should be standard review comprises minimum fifty research articles belonging to peer reviewed journals (National and International).
- Candidate has to submit a report of reviewed literature in printed form to the department concerned at the time of presentation.

Part – B (50 marks)

Presentation:

- Seminar based on the review of literature with the help of PPT.

Signature (s) -

R.P. Gupta
6.2.15



Handey

PAPER – I (COMPULSORY)

CW 01: RESEARCH METHODOLOGY AND COMPUTING

UNIT – I

Research concept: Introduction of Research methodology, nature, concept, objective and scope of research; Research motivation; Types and method of research; Concepts of abstract, review of literature, Quantitative and qualitative research.

UNIT – II

Research problem and design: Research problem – Identification, selection and its formulation; Research design – Components, materials, hypothesis and its importance; Research journals and research articles, Research project. Criteria of good research. Script Writing, Challenges and opportunities for good research in India.

UNIT – III

Research ethics: Basic concepts and issues, Institutional ethics, Intellectual property rights (IPR), Patents, copy right, Plagiarism, cyber laws, Impact factor, Citation, i10-index, h-index, Reference style, Journal Citation report (JCR), peer review process, referred journal, journal index database, preparation of manuscript.

UNIT – IV

Quantitative data analysis: Types and classification of data, Data collection and representation, tabulation, Sampling methods and size of samples, Central tendency, Standard deviation and error, Probability, Normal and Binomial distribution, Test of significance (t-test, F-test and Chi-square test), basic ANOVA, Correlation and regression.

UNIT – V

Computer fundamentals: Introduction, Software and Hardware; MS-Word, MS-Excel and MS-Power point, Document preparation system: La-Tex, PDF, Basics of computer Network and Internet, Data analysis and graph/ chart designing and preparing using specific software, Search engines, Google scholar, online paper submission system like Easy chair. Basic introduction of SPSS and MATLAB.

Books suggested –

1. Research methodology- Methods and Techniques (3/e): C. K. Kothari (2008), New Age International, New Delhi
2. Research Methodology: R. Panneerselvam (2nd Edition), PHI learning publication, India.
3. Research methodology in Behavioral Sciences (English and Hindi), S. K. Mangal, S. Mangal, PHR Learning publication, India.
4. Computer Fundamentals Architecture and organization by B.Ram and Sanjay Kumar, New Age International Publisher.
5. 2007 Microsoft Office System Step by step by Cox, Joyce etc. All, PHI Learning India.
6. Bio-statistical Analysis (5th /6th Edit.): Jerrold H. Zar, Pearson Education.
7. Experimental design: W. G. Cochran and M. G. Cox, John Wiley & Sons Publication, New Delhi.
8. Plagiarism: Why it happens, How to prevent it? – B. Gilmore.
9. Microsoft Office 2010: Introductory concepts and Techniques; G.B. Shelly & T.J. Cashman.
10. Design and analysis of experiments (5/e): Montgomery and Douglas (2007), Wiley Publication.

➤ *Any other books suggested by Course coordinator/ Course Teacher/ Supervisor concerned may be applied.*

PAPER – III (COMPULSORY)

CW 03: REVIEW OF LITERATURE AND PRESENTATION

Part – A (50 Marks)

Review of Literature:

Writing of literature in the area of the proposed research work under Ph. D. program.

- It should be standard review comprises minimum fifty research articles belonging to peer reviewed journals (National and International).
- Candidate has to submit a report of reviewed literature in printed form to the department concerned at the time of presentation.

Part – B (50 marks)

Presentation:

- Seminar based on the review of literature with the help of PPT.

Signature (s) -

PAPER – I (COMPULSORY)**CW 01: RESEARCH METHODOLOGY AND COMPUTING****UNIT – I**

Research concept: Introduction of Research methodology, nature, concept, objective and scope of research; Research motivation; Types and method of research; Concepts of abstract, review of literature, Quantitative and qualitative research.

UNIT – II

Research problem and design: Research problem – Identification, selection and its formulation; Research design – Components, materials, hypothesis and its importance; Research journals and research articles, Research project, Criteria of good research, Script Writing, Challenges and opportunities for good research in India.

UNIT – III

Research ethics: Basic concepts and issues, Institutional ethics, Intellectual property rights (IPR), Patents, copy right, Plagiarism, cyber laws, Impact factor, Citation, i10-index, h-index, Reference style, Journal Citation report (JCR), peer review process, referred journal, journal index database, preparation of manuscript.

UNIT – IV

Quantitative data analysis: Types and classification of data, Data collection and representation, tabulation, Sampling methods and size of samples, Central tendency, Standard deviation and error, Probability, Normal and Binomial distribution, Test of significance (t-test, F-test and Chi-square test), basic ANOVA, Correlation and regression.

UNIT – V

Computer fundamentals: Introduction, Software and Hardware; MS-Word, MS-Excel and MS-Power point, Document preparation system: La-Tex, PDF, Basics of computer Network and Internet, Data analysis and graph/ chart designing and preparing using specific software, Search engines, Google scholar, online paper submission system like Easy chair, Basic introduction of SPSS and MATLAB.

Books suggested –

1. Research methodology- Methods and Techniques (3/e): C. K. Kothari (2008), New Age International, New Delhi
2. Research Methodology: R. Panneerselvam (2nd Edition), PHI learning publication, India.
3. Research methodology in Behavioral Sciences (English and Hindi), S. K. Mangal, S. Mangal, PHR Learning publication, India.
4. Computer Fundamentals Architecture and organization by B.Ram and Sanjay Kumar, New Age International Publisher.
5. 2007 Microsoft Office System Step by step by Cox, Joyce etc. All, PHI Learning India.
6. Bio-statistical Analysis (5th /6th Edit.): Jerrold H. Zar, Pearson Education.
7. Experimental design: W. G. Cochran and M. G. Cox, John Wiley & Sons Publication, New Delhi.
8. Plagiarism: Why it happens, How to prevent it? – B. Gilmore.
9. Microsoft Office 2010: Introductory concepts and Techniques; G.B. Shelly & T.J. Cashman.
10. Design and analysis of experiments (5/e): Montgomery and Douglas (2007), Wiley Publication.

➤ *Any other books suggested by Course coordinator/ Course Teacher/ Supervisor concerned may be applied.*

PAPER – III (COMPULSORY)

CW 03: REVIEW OF LITERATURE AND PRESENTATION

Part – A (50 Marks)

Review of Literature:

Writing of literature in the area of the proposed research work under Ph. D. program

- It should be standard review comprises minimum fifty research articles belonging to peer reviewed journals (National and International).
- Candidate has to submit a report of reviewed literature in printed form to the department concerned at the time of presentation.

Part – B (50 marks)

Presentation:

- Seminar based on the review of literature with the help of PPT.

Signature (s) -

PAPER – I (COMPULSORY)

CW 01: RESEARCH METHODOLOGY AND COMPUTING

UNIT – I

Research concept: Introduction of Research methodology, nature, concept, objective and scope of research; Research motivation; Types and method of research; Concepts of abstract, review of literature, Quantitative and qualitative research.

UNIT – II

Research problem and design: Research problem – Identification, selection and its formulation; Research design – Components, materials, hypothesis and its importance; Research journals and research articles, Research project. Criteria of good research. Script Writing, Challenges and opportunities for good research in India.

UNIT – III

Research ethics: Basic concepts and issues, Institutional ethics, Intellectual property rights (IPR), Patents, copy right, Plagiarism, cyber laws, Impact factor, Citation, i10-index, h-index, Reference style, Journal Citation report (JCR), peer review process, referred journal, journal index database, preparation of manuscript.

UNIT – IV

Quantitative data analysis: Types and classification of data, Data collection and representation, tabulation, Sampling methods and size of samples, Central tendency, Standard deviation and error, Probability, Normal and Binomial distribution, Test of significance (t-test, F-test and Chi-square test), basic ANOVA, Correlation and regression.

UNIT – V

Computer fundamentals: Introduction, Software and Hardware; MS-Word, MS-Excel and MS-Power point, Document preparation system: La-Tex, PDF, Basics of computer Network and Internet, Data analysis and graph/ chart designing and preparing using specific software, Search engines Google scholar, online paper submission system like Easy chair. Basic introduction of SPSS and MATLAB.

Books suggested –

1. Research methodology- Methods and Techniques (3/e): C. K. Kothari (2008), New Age International, New Delhi
2. Research Methodology: R. Panneerselvam (2nd Edition), PHI learning publication, India.
3. Research methodology in Behavioral Sciences (English and Hindi), S. K. Mangal, S. Mangal, PHR Learning publication, India.
4. Computer Fundamentals Architecture and organization by B.Ram and Sanjay Kumar, New Age International Publisher.
5. 2007 Microsoft Office System Step by step by Cox, Joyce etc. All, PHI Learning India.
6. Bio-statistical Analysis (5th /6th Edit.): Jerrold H. Zar, Pearson Education.
7. Experimental design: W. G. Cochran and M. G. Cox, John Wiley & Sons Publication, New Delhi.
8. Plagiarism: Why it happens. How to prevent it? – B. Gilmore.
9. Microsoft Office 2010: Introductory concepts and Techniques; G.B. Shelly & T.J. Cashman.
10. Design and analysis of experiments (5/e): Montgomery and Douglas (2007), Wiley Publication.

➤ *Any other books suggested by Course coordinator/ Course Teacher/ Supervisor concerned may be applied.*

PAPER – III (COMPULSORY)

CW 03: REVIEW OF LITERATURE AND PRESENTATION

Part – A (50 Marks)

Review of Literature:

Writing of literature in the area of the proposed research work under Ph. D. program.

- It should be standard review comprises minimum fifty research articles belonging to peer reviewed journals (National and International).
- Candidate has to submit a report of reviewed literature in printed form to the department concerned at the time of presentation.

Part – B (50 marks)

Presentation:

- Seminar based on the review of literature with the help of PPT.

Signature (s) -

PAPER – I (COMPULSORY)**CW 01: RESEARCH METHODOLOGY AND COMPUTING****UNIT – I**

Research concept: Introduction of Research methodology, nature, concept, objective and scope of research; Research motivation; Types and method of research; Concepts of abstract, review of literature, Quantitative and qualitative research.

UNIT – II

Research problem and design: Research problem – Identification, selection and its formulation; Research design – Components, materials, hypothesis and its importance; Research journals and research articles, Research project. Criteria of good research. Script Writing, Challenges and opportunities for good research in India.

UNIT – III

Research ethics: Basic concepts and issues, Institutional ethics, Intellectual property rights (IPR), Patents, copy right, Plagiarism, cyber laws, Impact factor, Citation, i10-index, h-index, Reference style, Journal Citation report (JCR), peer review process, referred journal, journal index database, preparation of manuscript.

UNIT – IV

Quantitative data analysis: Types and classification of data, Data collection and representation, tabulation, Sampling methods and size of samples, Central tendency, Standard deviation and error, Probability, Normal and Binomial distribution, Test of significance (t-test, F-test and Chi-square test), basic ANOVA, Correlation and regression.

UNIT – V

Computer fundamentals: Introduction, Software and Hardware; MS-Word, MS-Excel and MS-Power point. Document preparation system: La-Tex, PDF, Basics of computer Network and Internet. Data analysis and graph/ chart designing and preparing using specific software, Search engines. Google scholar, online paper submission system like Easy chair. Basic introduction of SPSS and MATLAB.

Books suggested –

1. Research methodology- Methods and Techniques (3/e): C. K. Kothari (2008), New Age International, New Delhi
2. Research Methodology: R. Panneerselvam (2nd Edition), PHI learning publication, India.
3. Research methodology in Behavioral Sciences (English and Hindi), S. K. Mangal, S. Mangal, PHR Learning publication, India.
4. Computer Fundamentals Architecture and organization by B.Ram and Sanjay Kumar, New Age International Publisher.
5. 2007 Microsoft Office System Step by step by Cox, Joyce etc. All, PHI Learning India.
6. Bio-statistical Analysis (5th /6th Edit.): Jerrold H. Zar, Pearson Education.
7. Experimental design: W. G. Cochran and M. G. Cox, John Wiley & Sons Publication, New Delhi.
8. Plagiarism: Why it happens, How to prevent it? – B. Gilmore.
9. Microsoft Office 2010: Introductory concepts and Techniques; G.B. Shelly & T.J. Cashman.
10. Design and analysis of experiments (5/e): Montgomery and Douglas (2007), Wiley Publication.

➤ *Any other books suggested by Course coordinator/ Course Teacher/ Supervisor concerned may be applied.*

PAPER – III (COMPULSORY)

CW 03: REVIEW OF LITERATURE AND PRESENTATION

Part – A (50 Marks)

Review of Literature:

Writing of literature in the area of the proposed research work under Ph. D. program

- It should be standard review comprises minimum fifty research articles belonging to peer reviewed journals (National and International).
- Candidate has to submit a report of reviewed literature in printed form to the department concerned at the time of presentation.

Part – B (50 marks)

Presentation:

- Seminar based on the review of literature with the help of PPT.

Signature (s) -

PAPER – I (COMPULSORY)**CW 01: RESEARCH METHODOLOGY AND COMPUTING****UNIT – I**

Research concept: Introduction of Research methodology, nature ,concept, objective and scope of research; Research motivation; Types and method of research; Concepts of abstract, review of literature, Quantitative and qualitative research.

UNIT – II

Research problem and design: Research problem – Identification, selection and its formulation; Research design – Components, materials, hypothesis and its importance; Research journals and research articles, Research project. Criteria of good research. Script Writing, Challenges and opportunities for good research in India.

UNIT – III

Research ethics: Basic concepts and issues, Institutional ethics, Intellectual property rights (IPR),), Patents, copy right, Plagiarism, cyber laws, Impact factor, Citation, i10-index, h-index, Reference style, Journal Citation report (JCR), pear review process ,referred journal, journal index database, preparation of manuscript.

UNIT – IV

Quantitative data analysis: Types and classification of data, Data collection and representation, tabulation, Sampling methods and size of samples, Central tendency, Standard deviation and error, Probability, Normal and Binomial distribution, Test of significance (t-test, F-test and Chi-square test), basic ANOVA, Correlation and regression.

UNIT – V

Computer fundamentals: Introduction, Software and Hardware; MS-Word, MS-Excel and MS-Power point, Document preparation system: La-Tex, PDF, Basics of computer Network and Internet, Data analysis and graph/ chart designing and preparing using specific software, Search engines. Google scholar, online paper submission system like Easy chair. Basic introduction of SPSS and MATLAB.

Books suggested –

1. Research methodology- Methods and Techniques (3/e): C. K. Kothari (2008), New Age International, New Delhi
2. Research Methodology: R. Panneerselvam (2nd Edition), PHI learning publication, India.
3. Research methodology in Behavioral Sciences (English and Hindi), S. K. Mangal, S. Mangal, PHR Learning publication, India.
4. Computer Fundamentals Architecture and organization by B.Ram and Sanjay Kumar, New Age International Publisher.
5. 2007 Microsoft Office System Step by step by Cox, Joyce etc. All. PHI Learning India.
6. Bio-statistical Analysis (5th /6th Edit.): Jerrold H. Zar, Pearson Education.
7. Experimental design: W. G. Cochram and M. G. Cox, John Wiley & Sons Publication, New Delhi.
8. Plagiarism: Why it happens, How to prevent it? – B. Gilmore.
9. Microsoft Office 2010: Introductory concepts and Techniques; G.B. Shelly & T.J. Cashman.
10. Design and analysis of experiments (5/e): Montgomery and Douglas (2007), Wiley Publication.

➤ *Any other books suggested by Course coordinator/ Course Teacher/ Supervisor concerned may be applied.*

PAPER – III (COMPULSORY)

CW 03: REVIEW OF LITERATURE AND PRESENTATION

Part – A (50 Marks)

Review of Literature:

Writing of literature in the area of the proposed research work under Ph. D. program.

- It should be standard review comprises minimum fifty research articles belonging to peer reviewed journals (National and International).
- Candidate has to submit a report of reviewed literature in printed form to the department concerned at the time of presentation.

Part – B (50 marks)

Presentation:

- Seminar based on the review of literature with the help of PPT.

Signature (s) -

PAPER – I (COMPULSORY)

CW 01: RESEARCH METHODOLOGY AND COMPUTING

UNIT – I

Research concept: Introduction of Research methodology, nature, concept, objective and scope of research; Research motivation; Types and method of research; Concepts of abstract, review of literature, Quantitative and qualitative research.

UNIT – II

Research problem and design: Research problem – Identification, selection and its formulation; Research design – Components, materials, hypothesis and its importance; Research journals and research articles, Research project. Criteria of good research. Script Writing, Challenges and opportunities for good research in India.

UNIT – III

Research ethics: Basic concepts and issues, Institutional ethics, Intellectual property rights (IPR), Patents, copy right, Plagiarism, cyber laws, Impact factor, Citation, i10-index, h-index, Reference style, Journal Citation report (JCR), peer review process, referred journal, journal index database, preparation of manuscript.

UNIT – IV

Quantitative data analysis: Types and classification of data, Data collection and representation, tabulation, Sampling methods and size of samples, Central tendency, Standard deviation and error, Probability, Normal and Binomial distribution, Test of significance (t-test, F-test and Chi-square test), basic ANOVA, Correlation and regression.

UNIT – V

Computer fundamentals: Introduction, Software and Hardware; MS-Word, MS-Excel and MS-Power point, Document preparation system: La-Tex, PDF, Basics of computer Network and Internet, Data analysis and graph/ chart designing and preparing using specific software, Search engines, Google scholar, online paper submission system like Easy chair. Basic introduction of SPSS and MATLAB.

Books suggested –

1. Research methodology- Methods and Techniques (3/e): C. K. Kothari (2008), New Age International, New Delhi
2. Research Methodology: R. Panneerselvam (2nd Edition), PHI learning publication, India.
3. Research methodology in Behavioral Sciences (English and Hindi), S. K. Mangal, S. Mangal, PHR Learning publication, India.
4. Computer Fundamentals Architecture and organization by B.Ram and Sanjay Kumar, New Age International Publisher.
5. 2007 Microsoft Office System Step by step by Cox, Joyce etc. All, PHI Learning India.
6. Bio-statistical Analysis (5th /6th Edit.): Jerrold H. Zar, Pearson Education.
7. Experimental design: W. G. Cochran and M. G. Cox, John Wiley & Sons Publication, New Delhi.
8. Plagiarism: Why it happens, How to prevent it? – B. Gilmore.
9. Microsoft Office 2010: Introductory concepts and Techniques; G.B. Shelly & T.J. Cashman.
10. Design and analysis of experiments (5/e): Montgomery and Douglas (2007), Wiley Publication.

➤ *Any other books suggested by Course coordinator/ Course Teacher/ Supervisor concerned may be applied.*

PAPER – III (COMPULSORY)

CW 03: REVIEW OF LITERATURE AND PRESENTATION

Part – A (50 Marks)

Review of Literature:

Writing of literature in the area of the proposed research work under Ph. D. program

- It should be standard review comprises minimum fifty research articles belonging to peer reviewed journals (National and International).
- Candidate has to submit a report of reviewed literature in printed form to the department concerned at the time of presentation.

Part – B (50 marks)

Presentation:

- Seminar based on the review of literature with the help of PPT.

Signature (s) -

PAPER – I (COMPULSORY)
CW 01: RESEARCH METHODOLOGY AND COMPUTING

UNIT – I

Research concept: Introduction of Research methodology, nature, concept, objective and scope of research; Research motivation; Types and method of research; Concepts of abstract, review of literature, Quantitative and qualitative research.

UNIT – II

Research problem and design: Research problem – Identification, selection and its formulation; Research design – Components, materials, hypothesis and its importance; Research journals and research articles, Research project, Criteria of good research, Script Writing, Challenges and opportunities for good research in India.

UNIT – III

Research ethics: Basic concepts and issues, Institutional ethics, Intellectual property rights (IPR), Patents, copy right, Plagiarism, cyber laws, Impact factor, Citation, i10-index, h-index, Reference style, Journal Citation report (JCR), peer review process, referred journal, journal index database, preparation of manuscript.

UNIT – IV

Quantitative data analysis: Types and classification of data, Data collection and representation, tabulation, Sampling methods and size of samples, Central tendency, Standard deviation and error, Probability, Normal and Binomial distribution, Test of significance (t-test, F-test and Chi-square test), basic ANOVA, Correlation and regression.

UNIT – V

Computer fundamentals: Introduction, Software and Hardware; MS-Word, MS-Excel and MS-Power point; Document preparation system; La-Tex, PDF, Basics of computer Network and Internet, Data analysis and graph/ chart designing and preparing using specific software, Search engines, Google scholar, online paper submission system like Easy chair, Basic introduction of SPSS and MATLAB.

Books suggested –

1. Research methodology- Methods and Techniques (3/e): C. K. Kothari (2008), New Age International, New Delhi
2. Research Methodology: R. Panneerselvam (2nd Edition), PHI learning publication, India.
3. Research methodology in Behavioral Sciences (English and Hindi), S. K. Mangal, S. Mangal, PHR Learning publication, India.
4. Computer Fundamentals Architecture and organization by B.Ram and Sanjay Kumar, New Age International Publisher.
5. 2007 Microsoft Office System Step by step by Cox, Joyce etc. All, PHI Learning India.
6. Bio-statistical Analysis (5th/6th Edit.): Jerrold H. Zar, Pearson Education.
7. Experimental design: W. G. Cochran and M. G. Cox, John Wiley & Sons Publication, New Delhi.
8. Plagiarism: Why it happens, How to prevent it? – B. Gilmore.
9. Microsoft Office 2010: Introductory concepts and Techniques; G.B. Shelly & T.J. Cashman.
10. Design and analysis of experiments (5/e): Montgomery and Douglas (2007), Wiley Publication.

➤ Any other books suggested by Course coordinator/ Course Teacher/ Supervisor concerned may be applied.



PAPER – III (COMPULSORY)

CW 03: REVIEW OF LITERATURE AND PRESENTATION

Part – A (50 Marks)

Review of Literature:

Writing of literature in the area of the proposed research work under Ph. D. program

- It should be standard review comprises minimum fifty research articles belonging to peer reviewed journals (National and International).
- Candidate has to submit a report of reviewed literature in printed form to the department concerned at the time of presentation.

Part – B (50 marks)

Presentation:

- Seminar based on the review of literature with the help of PPT.

Signature (s) -

A handwritten signature in black ink, appearing to be 'B. M.', written in a cursive style.

PAPER – I (COMPULSORY)

CW 01: RESEARCH METHODOLOGY AND COMPUTING

UNIT – I

Research concept: Introduction of Research methodology, nature, concept, objective and scope of research; Research motivation; Types and method of research; Concepts of abstract, review of literature, Quantitative and qualitative research.

UNIT – II

Research problem and design: Research problem – Identification, selection and its formulation; Research design – Components, materials, hypothesis and its importance; Research journals and research articles, Research project. Criteria of good research. Script Writing, Challenges and opportunities for good research in India.

UNIT – III

Research ethics: Basic concepts and issues, Institutional ethics, Intellectual property rights (IPR), Patents, copy right, Plagiarism, cyber laws, Impact factor, Citation, i10-index, h-index, Reference style, Journal Citation report (JCR), peer review process, referred journal, journal index database, preparation of manuscript.

UNIT – IV

Quantitative data analysis: Types and classification of data, Data collection and representation, tabulation, Sampling methods and size of samples, Central tendency, Standard deviation and error, Probability, Normal and Binomial distribution, Test of significance (t-test, F-test and Chi-square test), basic ANOVA, Correlation and regression.

UNIT – V

Computer fundamentals: Introduction, Software and Hardware; MS-Word, MS-Excel and MS-Power point, Document preparation system: La-Tex, PDF, Basics of computer Network and Internet, Data analysis and graph/ chart designing and preparing using specific software, Search engines, Google scholar, online paper submission system like Easy chair. Basic introduction of SPSS and MATLAB.

Books suggested –

1. Research methodology- Methods and Techniques (3/e): C. K. Kothari (2008), New Age International, New Delhi
2. Research Methodology: R. Panneerselvam (2nd Edition), PHI learning publication, India.
3. Research methodology in Behavioral Sciences (English and Hindi), S. K. Mangal, S. Mangal, PHR Learning publication, India.
4. Computer Fundamentals Architecture and organization by B.Ram and Sanjay Kumar, New Age International Publisher.
5. 2007 Microsoft Office System Step by step by Cox, Joyce etc. All, PHI Learning India.
6. Bio-statistical Analysis (5th /6th Edit.): Jerrold H. Zar, Pearson Education.
7. Experimental design: W. G. Cochram and M. G. Cox, John Wiley & Sons Publication, New Delhi.
8. Plagiarism: Why it happens, How to prevent it? – B. Gilmore.
9. Microsoft Office 2010: Introductory concepts and Techniques; G.B. Shelly & T.J. Cashman.
10. Design and analysis of experiments (5/e): Montgomery and Douglas (2007), Wiley Publication.

➤ *Any other books suggested by Course coordinator/ Course Teacher/ Supervisor concerned may be applied.*

PAPER – III (COMPULSORY)
CW 03: REVIEW OF LITERATURE AND PRESENTATION

Part – A (50 Marks)

Review of Literature:

Writing of literature in the area of the proposed research work under Ph. D. program.

- It should be standard review comprises minimum fifty research articles belonging to peer reviewed journals (National and International).
- Candidate has to submit a report of reviewed literature in printed form to the department concerned at the time of presentation.

Part – B (50 marks)

Presentation:

- Seminar based on the review of literature with the help of PPT.

Signature (s) -

PAPER - I (COMPULSORY)

CW 01: RESEARCH METHODOLOGY AND COMPUTING

UNIT - I

Research concept: Introduction of Research methodology, nature, concept, objective and scope of research; Research motivation: Types and method of research; Concepts of abstract, review of literature, Quantitative and qualitative research.

UNIT - II

Research problem and design: Research problem - Identification, selection and its formulation; Research design - Components, materials, hypothesis and its importance; Research journals and research articles, Research project, Criteria of good research. Script Writing, Challenges and opportunities for good research in India.

UNIT - III

Research ethics: Basic concepts and issues, Institutional ethics, Intellectual property rights (IPR), Patents, copy right, Plagiarism, cyber laws, Impact factor, Citation, i10-index, h-index, Reference style, Journal Citation report (JCR), peer review process, referred journal, journal index database, preparation of manuscript.

UNIT - IV

Quantitative data analysis: Types and classification of data, Data collection and representation, tabulation, Sampling methods and size of samples, Central tendency, Standard deviation and error, Probability, Normal and Binomial distribution, Test of significance (t-test, F-test and Chi-square test), basic ANOVA, Correlation and regression.

UNIT - V


Computer fundamentals: Introduction, Software and Hardware; MS-Word, MS-Excel and MS-Power point, Document preparation system: La-Tex, PDF, Basics of computer Network and Internet, Data analysis and graph/ chart designing and preparing using specific software, Search engines Google scholar, online paper submission system like Easy chair, Basic introduction of SPSS and MATLAB.

Books suggested -

1. Research methodology - Methods and Techniques (3/e): C. K. Kothari (2008), New Age International, New Delhi
2. Research Methodology: R. Panneerselvam (2nd Edition), PHI learning publication, India.
3. Research methodology in Behavioral Sciences (English and Hindi), S. K. Mangal, S. Mangal, PHR Learning publication, India.
4. Computer Fundamentals Architecture and organization by B.Ram and Sanjay Kumar, New Age International Publisher.
5. 2007 Microsoft Office System Step by step by Cox, Joyce etc. All, PHI Learning India.
6. Bio-statistical Analysis (5th /6th Edit.): Jerrold H. Zar, Pearson Education.
7. Experimental design: W. G. Cochran and M. G. Cox, John Wiley & Sons Publication, New Delhi.
8. Plagiarism: Why it happens, How to prevent it? - B. Gilmore.
9. Microsoft Office 2010: Introductory concepts and Techniques; G.B. Shelly & T.J. Cashman.
10. Design and analysis of experiments (5/e): Montgomery and Douglas (2007), Wiley Publication.

➤ Any other books suggested by Course coordinator/ Course Teacher/ Supervisor concerned may be applied.




6/2/15

PAPER – III (COMPULSORY)

CW 03: REVIEW OF LITERATURE AND PRESENTATION

Part – A (50 Marks)

Review of Literature:

Writing of literature in the area of the proposed research work under Ph. D. program

- It should be standard review comprises minimum fifty research articles belonging to peer reviewed journals (National and International).
- Candidate has to submit a report of reviewed literature in printed form to the department concerned at the time of presentation.

Part – B (50 marks)

Presentation:

- Seminar based on the review of literature with the help of PPT.

Signature (s) -

