

REGULATIONS RELATING TO INTEGRATED M.Phil. - Ph.D.

IN

EXTENSION EDUCATION

(Effective from 2018)

a) Course Work: All scholars, including in-service one shall have to do a 'Course Work' which will be treated as a prerequisite for the M.Phil/Ph.D. programme for which they shall have to meet the minimum requirement of 75% attendance during the Course Work offered by the Department / Centre/Faculty concerned and will be required to complete the course work within the prescribed duration of one semester, as the case may be. However, such a scholar with M.Phil. programme of at least three semester duration, will be exempted from Course Work while pursuing Ph.D. programme, fulfilling conditions laid down in the Ordinance.

Provided that if a scholar fails to successfully complete the prescribed course work within the given period, he/she may be given one more chance to successfully complete the said Course Work.

If a scholar fails to successfully complete the prescribed course work with the given period, only one more chance/commensurate semester shall be given for completion of Course Work. Failure after this chance shall result in automatic cancellation of registration. The course work shall be of 16 credits which may consist of the following;

- i) A specially designed course of one semester duration offered by the Department/Centre/Faculty concerned, which should include four courses of four credits each. One of these shall be a course on research methodology, which may include quantitative /qualitative methods and computer application and other three courses shall be on subject –specific advance level.
- ii) One of the four course can be a term paper with a seminar component, all to be evaluated by RAC.

The details and the modalities of (i) and (ii) above, shall be decided by the concerned BoS/CoS.

b) Evaluation of Course Work : The course work as listed in Para4(a) above shall comprise of an internal assessment of 25 marks and a semester end examination of 75 marks for each course. A scholar having obtained a minimum of 55 percent of marks in aggregate of internal

assessment and semester end examination or its equivalent grade in UGC seven point scale (or equivalent CGPA wherever grading system is followed) in each course shall be declared to have successfully qualified the Course Work.

Provided further that if a scholar fails to qualify the course work in the stipulated period, his/her admission shall stand automatically cancelled.

After successfully completion of course work the scholar shall proceed for pursuing M.Phil.dissertation spread over next two semester as M.Phil. Guidelines mentioned in Para 14.

Provided that scholar possessing M.Tech./M.Arch/MDS degree or a scholar securing more than 70% (or equivalent CGPA) may be allowed to directly proceed for registration in Ph.D.program.

- c) Each Department/Centre /Faculty shall maintain the list of M.Phil./Ph.D.scholar on year –wise basis.The Chairman of DRC/CRC shall ensure that the list is displayed on the JMI website in the following format;

Sr.No. /Name of the Scholar / Date of Birth / Name of Supervisor /Co-Supervisor / Date of Registration /Admission / NET/SLET /or any other fellowship holder / Indian or Foreigner.

- d) **Registration to Ph.D.** After successfully completion of Course Work , a scholar shall be required to prepare a research proposal in consultation with his/ her supervisor. The proposal shall include ; (i) Topic of research , (ii) Objectives , (iii) Current state of the literature related to the specific topic , (iv) Methodology (v) References/ Bibliography and (vi) any other relevant information the researcher would like to submit in support of the proposed research. The scholar will submit the , RAC recommended , research proposal to the concerned Department/Centre/Faculty for consideration / approval of DRC/CRC.

The scholar will be formally registered to Ph.D.after his/her proposal has been approved by DRC/CRC and BoS/CoS.

PAPER-I: BASICS OF EXTENSION EDUCATION (04 Credits)

Objectives:

- (i) To acquaint the students with the concepts, objectives, philosophy and principles of extension education.
- (ii) To enable them to understand the steps of extension teaching.
- (iii) To acquaint the students with the origin and growth of extension education.
- (iv) To acquaint them with the emerging issues of extension.
- (v) To make them conversant with the extension systems and approaches.

Contents:

Unit I: Introduction to Extension Education

1. Extension – meaning, concept, objectives, philosophy of extension education.
2. Principles of extension education.
3. Steps in extension teaching.
4. Qualities of extension worker.

Unit II: Origin and Growth of Extension Education

5. Origin of extension education – a historical perspective.
6. Extension programs in Pre-Independence Era.
7. Extension programs in Post-Independence Era.
8. Emerging extension issues – market led extension, cyber extension, broad based extension (BBE), privatization etc.

Unit III: Extension Systems and Approaches

9. Extension role of universities and integrated function of teaching, research and extension.
10. Extension Systems.
11. Major Extension Approaches – General Extension Approach, Participatory Approach, Cost Sharing Approach, Commodity Specialised Approach, Training and visit Approach.

Books Recommended:

1. Blackburn, Donald. *J. Foundations and Changing Practices in Extension*. Ontario, Canada: University of Guelph, 1989.
2. Dhama, O.P. & Bhatanagar, O.P. *Education and Communication for Development*, New Delhi: Oxford and IBH Publishing Co. Pvt. Ltd., 1987.
3. Dhiman, O.P. *Foundations of Education: Philosophy and Sociology of Education*, Delhi: Atma Ram, 1987.
4. George H. Axim. *Guide on Alternative Extension Approaches*. Rome: FAO, 1988.
5. James, G.E. *Investing in Rural Extension: Strategies and Goals*. London & New York: Extension Applied Science Publishers, 1986.
6. Rolling, Niels. *Extension Science*. Cambridge: Cambridge University Press, 1988.
7. Swanson, B.E. (Ed) *Agricultural Extension – A Reference Manual (2nd Ed.)* FAO., New Delhi, Bombay, Calcutta: Pub. Oxford & IBH Publishing Co. Pvt. Ltd., 1984.
8. Van den Ban, W. and Hawkins, H.S. *Agricultural Extension*. U.K.: Longman House, 1988.

PAPER-II: RESEARCH METHODS IN EXTENSION EDUCATION (04 Credits)

Objectives:

- (i) To acquaint the students with methodology of conducting extension research
- (ii) To help them to understand the construction and proper use of various tools used for collecting data.
- (iii) To make them understand the use of various statistical techniques for the purpose of analyzing the data.
- (iv) To develop a proper understanding of how to conduct a good research.

Contents:

Unit I: Fundamentals of Research Methodology

1. Research in behavioural sciences – meaning and concepts.
2. Process of scientific research – selection and formulation of a research problem and hypothesis(es). Testing hypotheses.
3. Measurement – scales of measurement, characteristics of good instrument, objectivity, reliability, validity.
4. Sampling in research – population and sample, selection of representative and adequate sample, sampling techniques.

Unit II: Research design, Data Collection and Presentation

5. Types of research and Research designs.
6. Data collection – sources of data: survey schedule and questionnaire, interview, observation, construction of psycho tests, attitude scales etc.
7. Ways of presentation of data – tabular and graphical.
8. Writing a research report.

Unit III: Nature of statistical data: A descriptive Statistics

9. Measures of central tendency, and dispersion.
10. Probability distribution – normal – properties and uses.
11. Correlation and regression.
12. Some important parameteric Test – T-test, F-test etc.
13. Some important Non-parametric tests – Chi square, Wilcoxon Signed rank test, Kruskal-Wallis One way analysis of variance by rank etc.

Books Recommended:

1. Bogdan, R & Taylor, S.J. *Introduction to Qualitative Research Methods*, New York: John Willy & Sons, 1975.
2. Edward. E.L. *Techniques of Attitude Scale Construction*, Bombay, Vakil Publishers, 1962.
3. Elhance. D.N. *Fundamental of Statistics*, Allahabad, Kitab Mahal, 1994.
4. Guilford, J.P. & Frutcher Bengamin *Fundamental Statistics in Psychology and Education*, New York: McGraw Hill, 1978.
5. Kerlinger, F.N. *Foundations of Behavioural Sciences*, Delhi Surjeet Publication, 1996.
6. Mohsin. S.M. *Research Methods in Behavioural Sciences*, Calcutta: Orient Longman Ltd., 1984.
7. Mulay, S & Sabarathnam V.E. *Research Methods in Behavioural Sciences*, Delhi: Acharan Prakashan, 1980.
8. Nachmias, David & Nachmias, Chava *Resarch Methods in the Social Sciences*, New York: St. Martin's Press, 1981.
9. Rossi,P.H. & Freeman H.E. *Evaluation: A Systematic Approach*, New Delhi:Sage Publication, 1985.
10. Siegel, S. & Castellan, Jr. N. John *Non-Parametric Methods for Behavioural Sciences*, New York: McGraw Hill, 1988.
11. Gear, C. William *Computer organization and programming 4th Ed.*), New York: McGraw Hill International Publication, 1985.
12. Rajaraman. V. *Fundamentals of Computers*, New Delhi: Prentice Hall of India, 1994.
13. Filstead, W.J. *Qualitative Methodology, First hand Involvement with the Social World*. Chicago: Markham Publishing Co., 1970.
14. Lutz, Gene M. *Understanding Social Statistics*, New York: MacMillan Publishing Co., 1983.

PAPER-III: TRANSFER OF TECHNOLOGY

(04 Credits)

Objectives:

- i) To develop basic understanding of diffusion and adoption process.
- ii) To make the students aware about the diffusion and transfer of technology as a means of bringing about social change.
- iii) To make them able to understand the systems of transfer of technology.

Contents:

Unit I: Diffusion and Adoption Process

1. Concept of diffusion and adoption of Innovations, Stages of adoption process.
2. Factors influencing adoption process.
3. Models of diffusion and adoption.
4. Adopter categories and their characteristics, adoption curve, rate of adoption, over adoption.
5. Communication channels by stages of adoption and communication channels by adopter categories.

Unit II: Technology Development & Innovation-Decision Process

6. Generation of Innovation – technology development process.
7. Innovation-Decision Process.
8. Types of Innovation-Decisions
9. Attributes of Innovation – relationship with rate of adoption.
10. Consequences of adoption of Innovation.

Unit III: Transfer of Technology

11. Concept and Model of Transfer of Technology (TOT)
12. Opinion leadership.
13. Change agents.
14. Strategies of transfer of technology.
15. Technological constraints.

Books Recommended:

1. Dhama, O.P. & Bhatnagar, O.P. Education and Communication for Development. New Delhi: Oxford and IBH Publishing Co. Pvt. Ltd., 1985
2. Kelsey, L.D. and Hearne, C.C. Co-operative Extension. Work 3rd Ed. New York: Comstock Publishing Associates, 1963.
3. Ray, G.L. Extension, Communication and Management. Calcutta: Maya Prakash, 1991.
4. Reddy, A.A. Extension Education. Guntur: Sree Lakshmi Press, 1987.
5. Rogers, E.M. Diffusion of Innovations. 4th Ed. New York: The Free Press. A Division of Macmillan Publishing Co., 1995.
6. Singh, Ranjit, Text Book of Extension Education. Ludhiana: Sahitya Kala Prakashan, 1987.
7. Spence, W.R. Innovation. Champman and Hall Company. London, 1994.
8. Supe, S.V. An Introduction to Extension Education. New Delhi: Oxford and IBH Publishing Co. Pvt. Ltd. 1988.
9. Supe, S.V. A Text Book of Extension Education. Agrotech Publishing Academy, Udaipur, 2009.
10. Waghmare, S.K. Teaching Extension Education. 2nd Ed. New Delhi: Metropolitan Book Co. Pvt. Ltd., 1989.

PAPER-IV: RURAL DEVELOPMENT PROGRAMS

(04 Credits)

Objectives:

- i) To make them understand the basic fundamentals of rural development in India
- ii) To acquaint the students with the various theories, policies and institutions of rural development in India.
- iii) To acquaint the students with the various planning and development initiatives in India.
- iv) To make them familiar with the rural development programs and schemes in India.

Contents:

Unit I: Fundamentals of Rural Development in India

1. Development: meaning and elements
2. Rural development: meaning, concept, objectives and importance
3. Dimensions and various sectors of rural development
4. Theories of Rural Development
5. Rural industrialization and cooperatives

Unit II: Rural Development Policies, Approaches and Institutions

6. Rural development policies in pre-independent India
7. Rural development policies during post - independent India
8. Approaches to rural development in India since independence
9. Community Development & National Extension Service
10. Panchayati Raj system in India
11. The 73rd Constitutional Amendment Act.

Unit III: Rural Development Programs and Schemes in India

12. Landmark programs and schemes of rural development – NREP, IRDP, TRYSEM, DWCRA, JSRY, KVK etc.
13. Current rural development programs and schemes – NRUM, DDU-GKY, MGNREGA, Beti Bachao Beti Padhao Scheme, Saansad Adarsh Gram Yojana etc.
14. Role of NGOs in rural development

Books Recommended:

1. Agrawal, A. N., Indian Economy, Problems of Development and Planning, Delhi: New Age International Publishing, -----.
2. Mishra, S.N. and Sharma, Kaushal. Problems and Prospects of Rural Development in India, New Delhi. Uppal Publishing House, 1983.
3. Singh, Kartar, Rural Development Principles, Policies and Management, Delhi: Sage Publication, 1996.
4. Dhama, O.P. and Bhatnagar, O.P. Educational and Communication for Development 2nd Ed. New Delhi: Oxford & IBH Co. Pvt. Ltd., 1987.
5. Gupta, D.D, Core. Concept and Emerging Areas, Agra: Beas Publishing Co. Raj, 2010.
6. ICAR. Handbook of Agriculture, New Delhi: ICAR Publication, 2008.
7. S.M.Shah. Rural Development Planning and Reforms, New Delhi: Abhinav Publication, 1977.
8. Arora, Ramesh & Hooja, Ramesh. Administration of Rural Development – Indian and Comparative Perspective. Arihant Publishing House, 1996
9. Ahmad, Rais. Globalization and Economic Development, (I,II,III Volumes). New Delhi: Mittal Publishers, 2009.
10. Despande, Ashwani. Globalization and Development: A Handbook of New Perspectives New Delhi: Oxford University Press, 2008.
11. Ranahar, Gedam. Poverty in India. New Delhi: Deep & Deep Publication, 1995.
12. Pernia, E.M. Urban Poverty in Asia. New Delhi: Oxford University Press, 1994.
13. Mishra and Puri. Indian Economy 278 Edition New Delhi: Himalaya Publishing House, 2009.
14. Rathore, M.S. Environment and Development Delhi: Rural Publication, 1996.
15. Mustafa, A. Indian Rural Economy. New Delhi: Serials Publications 2009.