NOTIFICATION

No. 18/2020 Date : 6/2/ 2020

Subject : Implementation of Syllabi of M.Phil. Courses (One Year Full Time Degree Course) as per Semester and Credit Grade System in the Faculty of Humanites from the session 2019-2020 and Onwards.

It is notified for general information of all concerned that, the authorities of the University have accepted & approved the syllabi of M.Phil. Semester-I & II as Semester Credit Grade System mentioned in column No.2 and which is to be implemented from the session 2019-2020 and onwards, with appendices as shown in column No.3 of the following table.

It is further notified that the Scheme of Teaching and Examinations, Provisions and others details shall be as per the Direction Nos. 22 & 53 of 2019 respectively.

TABLE

Sr.No.	Course / Subjects	Appendices of the New Syllabi
1	2	3.
	M.Phil. Semester – I & II	
01.	M.Phil (Economics)	The Syllabi prescribed for the subject M.Phil. (Economics) which is appended herewith as **Appendix-A**
02.	M.Phil (Geography)	The Syllabi prescribed for the subject M.Phil. (Geography) which is appended herewith as **Appendix-B**

Sd/-
I/C Registrar
Sant Gadge Baba Amravati University

Appendix-A

Syllabi of M.Phil. in Economics
Semester-I
Paper-I
Research Methodology

Duration : 3 Hrs. Theory : 80
Int. Assess. : 20

Unit-I Nature of Research : (16 Marks)
a) Meaning , Nature, Characteristics, Objective, Scope, Area, Need.
b) Classification of Research ï Fundamental / Pure, Applied & Action Research.
c) Experimental Research ï Meaning , Nature , Importance , Variables.
d) Review of Literature.

Unit-II Major Steps in Scientific Research : (16 Marks)
a) Formulation of Research Problem
b) Hypothesis - Sources, Characteristics, Types (Null & Alternative), Testing of Hypothesis
c) Research Design ï Exploration, Formulative Research Design, Descriptive, Diagnostic & Experimental Research Design.
d) Data Collection Sampling Types.

Unit-III Qualitative Research Techniques : (16 Marks)
a) Techniques & Methods of Qualitative Research
b) Data Collection - Primary and Secondary Sources
c) Case Study, Content Analysis
d) Genealogy, Ethnography
e) Field Work, Survey, Obstacle, Solution .

Unit-IV Statistics in Research : (16 Marks)

a) Measures of Central Tendency-Mean, Median&Mode
b) Measures of Dispersion ï Standard / Deviation
c) Application of Computer in Social Research
d) Anti - plagiarism Software
e) Test ï T test, chi-square test, Importance and Utility

Unit-V Dissertation / Report Writing : (16 Marks)

a) Use of quotation, Foot / End notes ï Pagination, Documentation, Style.
b) Linguistics, Textual Literary Criticism, Biographical Criticism, Literary History.
c) Stylistic Analysis of a Work
d) Comparative Study
e) Punctuations ï The Format of a Thesis ï From the first Draft to the Final copy.

The norms relating to Internal Assessment in each Paper shall be as under :

1) Home Assignment .. 05 Marks
2) Seminar .. 05 Marks
3) Group Discussion .. 05 Marks
4) Library Work .. 05 Marks

Essential Readings :

1) Jooda, M. Denteck and Cook ï Research Methods in Social Relations.
2) Goode, wand Hattp ï Methods in Social Research.
3) Morton Robert ï Social Theory of LogicalStructure
4) Dr.Wollcinson T.S. and Dr. Bhandarkar P.L. ï Methodology, Public House New Delhi.
5) Mukharjee P.N. 2000 ï Methodology in Social Research
6) Young P ï Scientific Social Surveys & Research.
7) P. Garrett ï Statistics in Education & Psychology.
8) Festinger L.D. and Kartg D. ï Research Methods in Behavioural Sciences.
9) Punch Deith 1986 ï Introduction to Social Research.
10) Mueller &Schuessler ï Statistical Research in Sociology
11) डॉ. आगलावे प्रदीप - सामाजिकसंशोधन पध्दतीशास्त्रेव तंत्रे साईनाथ प्रकाशन, नागपूर
12) डॉ.भांडारकर पु.ल. - सामाजिक संशोधन पध्दती.
13) वाजपेयी एस.आर. - सामाजिक अनुसंधान और सर्वेक्षण
14) Encyclopedia of Social Sciences
15) डॉ. भितांडे - शैक्षणिक संशोधन पध्दतीï डायमंड प्रकाशन, पुणे
16) डॉ. बी.एम. क-हाडे - शास्त्रीय संशोधन पद्धती.
17) डॉ.विजयजरारे - संशोधन प्रणाली
18) Dr. Sharma Priyanka - Research in Social Science Inter-disciplinary Perspective.Social Research Foundation , Kedwar, Nagpur, Kanpur.
१९) दु.का. संत - संशोधन पध्दती प्रक्रिया अंतरंगमिलींद आगाशे : संशोधन पध्दती
२०) वसंत बापट - तौलनिक साहित्यशास्त्र : मुलतत्वे व दिशा
21) M. L.A. Handbook for Writers of Research Papers - Eighth Edition ï Joseph Gibaldi
22) Thesis Writing - C.J. Parsons Kothari C.R. Research Methodology, Methods and Tech. Book, 1985
23) H.V. Deshpande - Research in Literature and Language : Philosophy, Areas and Methodology.

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Syllabi of M.Phil. in Economics
Semester-I
Paper-II
Recent Trends in Economics

Total Marks : 100
Theory :80
Int.Ass. : 20

Unit-I Micro Economics :

1. Consumer behavior approach Cardinal & Ordinal Analysis.
2. Recent Development in Demand Analysis
   (Pragmatic approach and Linear Expenditure System)
3. Richard H. Thaler Approach
4. Game Theory : Zero and Non - zero sum games,
5. Prisonerôs Dilemma & Applications,
6. Production Function ï Short Period and Long Period
   Cobb-Douglas, CES Importance & Properties

Unit-II Macro Economics :

1. Employment Theories ï Classical, Neoclassical and Modern.
2. Supply of Money & Demand for Money,
3. RBIôs Money Measurements,
4. Business Cycle Theories - Schmpeter, Koldor, Samuelson & Hicks Model
5. Control of Business Cycles Relative Efficacy of Monetary and Fiscal Policies.
6. Tax Structure in India & GST.

Unit-III Trade Theory & Trade Policy :

1. Absolute,Comparative and Modern Theory.
2. Factor Price Equalization Theorem
3. Recent Trend in Direction and Composition of Indiaôs Foreign Trade.
4. Indiaôs Balance of Payments
5. Rupeeôs Convertibility
6. Indiaôs Recent Foreign Policy (Exim Policy)

Unit-IV Indian Agriculture and Industries :

1. Agriculture Recent Policies
2. Challenges before Agriculture Sector
3. Modernization of Agriculture Sector
4. Sustainable Agriculture
5. Recent Industrial Policies of India
6. Issues of Agriculture and Industrial Employment in India

Unit-V Service Sector in India :

1. Banking and Non-banking Financial Institutions ï Functions, Importance and Issues.
2. Telecommunication and Transport : Features, Growth and Issues.
3. Tourism and Employment in India
4. Insurance : Type, Importance and Issues
5. Indian Policies Regarding Poverty and Health : Issues and Challenges
6. Amartya Sen and Abhijit Banerjeeôs Approaches.

Essential Readings :

01. Ahuja H.L., Advanced Economic Theory: Micro Economic Analysis, 13th Edition, S. Chand and co. Ltd., New Delhi
02. Baumol W. J., Economic Theory and Operations Analysis, Prentice Hall of India, New Delhi
03. Dewett K.K., Modern Economic Theory, S. Chand and Co. Ltd., Revised Edition 2005
04. Jhingan M.L., Micro Economic Analysis, Vrinda Publications
05. Koutsoyiannis A., Modern Economics, 2nd Edition, Macmillan Press London
06. Kreps David M., A course in Micro Economics Theory, Princeton University Press, Princeton
07. Sen, A Micro Economics: Theory and Applications, Oxford University Press, New Delhi
08. Stigler , G. : Theory of Price, 4th Edition, Prentice Hall Of India, New Delhi
09. Seth M.L., Micro Economics
10. Varian, H. Micro Economic Analysis, W.W. Norton, New York.
11. Ahuja H.L., : Macro Economics for Business and Management, S. Chand and co. Ltd., New Delhi
12. Blackhouse, R. and A. Salansi, Macro Economics and The Real World (2nd Volume) Oxford University Press, London

13. DôSouza, Errol, Macro Economics, Pearson Education , Delhi
14. Gupta R.D. and RanaA.S.:Post- Keynesian Economics, Kalyani Publishers, Ludhiana
15. Heijdra, B.J. and V.P. Frederick, Foundations of Modern Macro Economics, Oxford University Press, New Delhi
16. Jha, R., Contemporary Macro Economic Theory and Policy, Wiley Eastern Ltd., New Delhi
17. Jhingan M.L., : Macro Economics
18. Keynes J. M. : General Theory Of Employment and interest and Money
19. Mithani D.M. , Money, Banking, International Trade and Public Finance, Himalaya Publications
20. Rakshit , M., Studies in the Macro Economics Of Developing countries, Oxford University Press, New Delhi
21. Reddy Y.V., A Review Of Monetary and Financial Sector Reforms In India, UBSTD, New Delhi
22. Shukla D.K.:Business Cycle Analysis
23. Bhaduri A. - The Economic Structure of Backward Agriculture, Macmillan, Delhi.
24. Dilgrami S.A. ï Agricultural Economics, Himalaya Publishing House, Delhi.
25. Dantawala M.L., Indian Agricultural Development Oxford, New Delhi.
26. Kahlon A.S. and Tyagi D.S., Agricultural Price Policy in India Allied Publisher New Delhi.
27. Bilgami S. A.R., Introduction to Agricultural Economics
28. SatyaSundaram, Rural Development.
29. Mammmoria C.B. Agricultural Problems of India.
30. Ahluvalia I.J.: Industrial Growth In India, Oxford University Press, New Delhi
31. Bartwal R.R.: Industrial Economics, Wiley Eastern Ltd., New Delhi
32. Cherunilm F.: Industrial Economics, Indian Perspectives, 3rd Edition, Himalaya Publishing House, Mumbai
33. Desai B.: Industrial Economy in India 3rd Edition, Himalaya Publishing House, Mumbai
34. Government of India Economic Survey Annual
35. Hay D. and D.J. Morris, Industrial Economics :Theory and Evidence, Oxford University Press, New Delhi
36. Kuchhal S.C.: Industrial Economy of India, 5th Edition, Chaitanya Publishing House Allahabad
37. Sing A. and A.N. Sadhu: Industrial Economics, Himalaya Publishing House, Mumbai
38. Reserve Bank of India - Report on Currency and Finance (Annual)
39. Mukherjee, N. (1988) - Indiaôs International Payments, Imbalances, Mayur Offset - Kolkata.
40. Sen, S. (2000) - Trade and Dependence, Essays on the Indian Economy, Sage Publications New Delhi.
41. Verma, M.L. (1995) - International Trade, Vikas Publishing House, Private Ltd. Delhi
42. Chelliah, Raja J. aand R. Sudharshan (1999) - Income, Poverty and Beyond Human Development in India, Social Science Press, New Delhi.
43. Dhameeja, N an K.S. Sastry (1998) - Privatizations; Theory arid Practice, A.H. Wheeler, New Delhi
44. Dubey, M. (1996), - An Unequal Treaty : World Trading Order After GATT, New Age International Ltd. Delhi.
45. Srinivasan T.N. (Ed.)(2000) - Eight Lectures on Indiaôs Economic Reforms, Oxford UniversityPress, Oxford.
46. Bagchi. A. - The Political Economy of Under development in India
47. Bhagwati, J & Desai, P. - India Planning of Industrialization.
48. Ghosh, Alak - Indian Economy.
49. Misra&Puri, - Indian Economy, Himalaya Publishing House, Mumbai.
50. Ruddar Dutta &Sundharam, K.P.M - Indian Economy. S. Chand, New Delhi.
51. Fisher, G.E. and R.J. Jorden(1992) - Security Analysis and Portfolio Management Eastern Economy Edition, New Delhi.
52. Gupta I.C. (Ed) (1999) - Indiaôs Financial Markets and Institution, Society for Capital Research and Development, Delhi.
53. Brahmananda, PR (1982) - MF. Loan and Indiaôs Economic Future, Himalaya Publishing House, Bombay.
54. Kindleberger, C.P. (1996) - A History of Financial Crisis Manias, Panics and Crashes, John Wiley & Sons, New York.
55. R.B.I. (1995) - Report of the Working Group on Foreign Exchange Market in India, (Sodhani Group) Mumbai.
56. Avadhani V.A. (2002) - Marketing of Financial Services, Himalaya Publishing House, Mumbai.
57. Chandler, L.V. - Central Banking & Economics Development
58. De Cock. M.H. - Central Banking.
59. Desai Vasant, - Indian Banking Nature & Problems.
60. Rao, S.R. - The Indian Money Market.

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Syllabi of M.Phil. in Economics
Semester-I
Paper-III
Applications of Information and Communication Technology (I.C.T.) in the Relevant Field

Duration : 3 Hrs. Theory : 80
Internal Asses. : 20

Course Objectives :

1. To understand basic functioning of Introduction Communication Technology.
2. To understand the tools of Information and Communication Technology.
3. To understand basic concepts of Networks and Network Security.

Course Outcomes :

At the end of course, students will be able to :
1. Identify various components of a computer system.
2. Describe the main functions of a operating system (OS) and explain the history leading to their current form
3. Create, edit, save, format and print documents to include documents with lists and tables and with other applications related to processing.
4. Create and format spreadsheets and presentation tools with adding multimedia and other operations related to it.
5. Use various web tools including Web Browsers, E-mail clients, search utilities and also understand its security related features

Syllabus

Unit I : Computer and its Components : 16 Marks

Introduction, Hardware and Software, Computers Characteristics, Generations of Computers, Types of Computers: Supercomputers, Mainframes, Personal computers, Note book computers, Categories of Computers, Applications of Computers, Input -- Process ï Output (IPO) Computer Ports & Cables, Number System.

Unit II : Operating System: Introductions : 16 Marks

Definition of Operating Systems, Operating System Functions, Operating System Concerns, Operating System Types, Algorithm, Flowchart, Installing Windows, Basic Operations in Windows, Interface, Introduction to Windows File System, Storing and Managing Data, Windows User Accounts, System Settings, Adjusting the Computers Settings, Introduction to Hadoop.

Unit III : Work Processing Software : 16 Marks

Introduction to MS Office, Word Processing with MS-Word: basic operations- Editing , Proofing , and Formatting text, paragraphs and pages, working with tables and images, Mail merge, working with charts, Equations, and Symbols.

Unit IV : MS Excel & Presentation Software : 16 Marks

Introduction to MS Excel and its User Interface, Working with workbooks & work sheets, Data Entry techniques, Table, Setting, Print related operations, Performing Calculations on Data: Working with Excel Formulas, Functions and Charts, Sorting / Filtering data. MS PowerPoint : Presentation Basics, Adding more components to the slides, Formatting Presentations, backgrounds and layout , Applying Themes, Using slide Master, Working with Multimedia, Printing slides and Delivering Presentations. Introduction to R tool.

Unit V : Introduction to Network & Network Security.: 16 Marks

The Internet : An introduction, Meaning and benefits of the Internet, The history of the Internet, Differences between Internet and World Wide Web, Connecting to the Internet, Web Browsers, User Interfaces of Web Browsers, Browser Customization, Search Engines, E-mails. Network Security: Introduction, Basic Terminology, Attacks, Cyber Crimes.

The Norms Relating to Internal Assessment in each Paper shall be as under :-

1) Home Assignment - 05 Marks
2) Seminar - 05 Marks
3) Group Discussion - 05 Marks
4) Library Work - 05 Marks

References Books :

1. Leon. A &Leon.M. ñFundamentals of Information Technology: Second Editionò, Vikas Publishing
2. Williams Sawyer, ñUsing Information Technology: A Practical Introduction to Computer & Communicationsò 6th International Edition, McGraw Hill.

Online Links :

1. ebooks. Ipude in / library and info sciences / BLIS/year 1/DLIS108 INFORMATION AND COMMUNICATION, TECHNOLOGY APPLICATIONS. pdf
2. https://www itu.int/en/ITU-D / ICT ï Applications/Pages/default. aspx

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Syllabi of M.Phil. in Economics
Semester-I
Paper-IV

Review of Literature / Field Work

Review of Literature and/or Field Work :80 Marks
Internal Assessment :20 Marks

Students shall undertake the Review of Literature and/or Field Work as prescribed by the RAC under the guidance of the supervisor. The supervisor shall evaluate the same and submit the marks / credit to the University through Research Centre.

The Norms Relating to Internal Assessment in each Paper shall be as under :-

1) Home Assignment - 05 Marks
2) Seminar - 05 Marks
3) Group Discussion - 05 Marks
4) Library Work/Analysis of Research Papers - 05 Marks

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Semester-II

Dissertation

S.N.	Name of Paper	Credits	Examination Scheme			Min.Passing Marks
			Dissertation	Internal Assessment	Total Marks	
1	Dissertation	24	400	--	400	200

The Distribution of Marks as per Different Assessment Parameters shall be as under :-

1) Seminars & Group Discussion - 50
2) Synopsis of Dissertation - 25
3) Representation &Predefence of draft Dissertation - 75
4) Evaluation of Dissertation - 200
5) Viva-Voce - 50

Securing at least 50% Marks in each Assessment Parameter shall be Mandatory.

Appendix-B

Syllabi of M.Phil. in Geography
Semester-I
Paper-I
Research Methodology

Duration : 3 Hrs. Theory : 80
Int. Assess. : 20

Unit-I Nature of Research : (16 Marks)
a) Meaning , Nature, Characteristics, Objective, Scope, Area, Need.
b) Classification of Research ï Fundamental / Pure, Applied & Action Research.
c) Experimental Research ï Meaning , Nature , Importance , Variables.
d) Review of Literature.

Unit-II Major Steps in Scientific Research : (16 Marks)
a) Formulation of Research Problem
b) Hypothesis - Sources, Characteristics, Types (Null & Alternative), Testing of Hypothesis
c) Research Design ï Exploration, Formulative Research Design, Descriptive, Diagnostic & Experimental Research Design.
d) Data Collection Sampling Types.

Unit-III Qualitative Research Techniques : (16 Marks)
a) Techniques & Methods of Qualitative Research
b) Data Collection - Primary and Secondary Sources
c) Case Study, Content Analysis
d) Genealogy, Ethnography
e) Field Work, Survey, Obstacle, Solution .

Unit-IV Statistics in Research : (16 Marks)
a) Measures of Central Tendency-Mean, Median&Mode
b) Measures of Dispersion ï Standard / Deviation
c) Application of Computer in Social Research
d) Anti - plagiarism Software
e) Test ï T test, chi-square test, Importance and Utility

Unit-V Dissertation / Report Writing : (16 Marks)
a) Use of quotation, Foot / End notes ï Pagination, Documentation, Style.
b) Linguistics, Textual Literary Criticism, Biographical Criticism, Literary History.
c) Stylistic Analysis of a Work
d) Comparative Study
e) Punctuations ï The Format of a Thesis ï From the first Draft to the Final copy.

The norms relating to Internal Assessment in each Paper shall be as under :

1) Home Assignment .. 05 Marks
2) Seminar .. 05 Marks
3) Group Discussion .. 05 Marks
4) Library Work .. 05 Marks

Essential Readings :

1) Jooda, M. Denteck and Cook ï Research Methods in Social Relations.
2) Goode, wand Hattp ï Methods in Social Research.
3) Morton Robert ï Social Theory of LogicalStructure
4) Dr.Wollcinson T.S. and Dr. Bhandarkar P.L. ï Methodology, Public House New Delhi.
5) Mukharjee P.N. 2000 ï Methodology in Social Research

6) Young P ï Scientific Social Surveys & Research.
7) P. Garrett ï Statistics in Education & Psychology.
8) Festinger L.D. and Kartg D. ï Research Methods in Behavioural Sciences.
9) Punch Deith 1986 ï Introduction to Social Research.
10) Mueller &Schuessler ï Statistical Research in Sociology
11) डॉ. आगलावे प्रदीप - सामाजिकसंशोधन पध्दतीशास्त्रेव तंत्रे साईनाथ प्रकाशन, नागपूर
12) डॉ.भांडारकर पु.ल. - सामाजिक संशोधन पध्दती.
13) वाजपेयी एस.आर. - सामाजिक अनुसंधान और सर्वेक्षण
14) Encyclopedia of Social Sciences
15) डॉ. भितांडे - शैक्षणिक संशोधन पध्दतीï डायमंड प्रकाशन, पुणे
16) डॉ. बी.एम. क-हाडे - शास्त्रीय संशोधन पद्धती.
19) डॉ.विजयजरारे - संशोधन प्रणाली
20) Dr. Sharma Priyanka - Research in Social Science Inter-disciplinary Perspective.Social Research Foundation , Kedwar, Nagpur, Kanpur.
१९) दु.का. संत - संशोधन पध्दती प्रक्रिया अंतरंगमिलींद आगाशे : संशोधन पध्दती
२०) वसंत बापट - तौलनिक साहित्यशास्त्र : मुलतत्वे व दिशा
21) M. L.A. Handbook for Writers of Research Papers - Eighth Edition ï Joseph Gibaldi
22) Thesis Writing - C.J. Parsons Kothari C.R. Research Methodology, Methods and Tech. Book, 1985
23) H.V. Deshpande - Research in Literature and Language : Philosophy, Areas and Methodology.

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Syllabi of M.Phil. in Geography
Semester-I
Paper-II
Recent Trends in Geography

Number of Periods : 60 **Total Marks : 100**
Theory :80
Int.Ass. : 20

Unit-I Advance Physical Geography :

Mapping Techniques in Geomorphology, Slope Classification Maps, Morphological Maps, Geomorphological Mapping and Land System Mapping, Slope Processes and Slope Profile Development, Environmentôs Process on Hill Slopes, Model of Hill Slopes Development, Techniques for the Investigation of Slow and Rapid forms of Mass Movement.

Classification of Indian Climates, Synoptic Climatology :- Themes and Applications, Physiological and Psychological Effects of Climates, Effects of Climate on Agriculture, Industry and Transportation, Urban Climates, Climatic Variability.

Unit-II Advance Human Geography :

Population Indices and Projection : Age Sex Pyramid, Child Women Ratio, Dependency Ratio, Spatial Disparities in Fertility, Infant Mortality, Age Specific Mortality, Survival Rate, Longevity of Life, Population Growth Rate, Population Projection.

Process of Urban Growth and Structural Models with Special References to India, Degree of Urbanization and it Measures, Urban Morphology.

Quantitative Analysis of Agricultural Characteristics : Indices of Crop Concentration, Crop Diversification and Crop Combination.

Unit-III Applied Geography :

Natural Disaster Management : Hazards and Disasters, Components of Comprehensive Disaster Preparedness Plans, Risk Assessment and Vulnerability Analysis.

Regional and Rural Development Planning : Concept of Centralized and Decentralized Planning, Rural Development and Poverty Alleviation Policy.

Integrated Watershed Development and Management : Concept and Framework, Steps in Watershed Management ï Basic Information, Development Component.

Unit-IVAdvance Geoinformatics :

Remote Sensing and Image Interpretation, Visual Image Interpretation and Digital Image Processing, Geographical Information System Integration of Raster and Vector Data, Feature based Topological Functions, Interactive Data Exploration, Vector Data Query, Attribute Data Query, Locational Coding, Geographic Visualization, Global Positioning System, Gps Segments, Gps Positioning Types Absolute, Differential, Geo-Positioning, Gnss:Navstar, Glonass, Galileo.

Unit-VChanging Paradigms of Geography :

Consideration of Geographic Space :Monodisciplinary Approach, Multidisciplinary Approach, Inter-disciplinary Approach, Geographic Methodology : Traditional Model, Computer Technology Model, Integration Model, The New Paradigms of Geography : Choroinformatics, The Role of New Paradigms.

References :

1. Allison, Robert J. (Ed.) 2002 - Applied Geomorphology : Theory and Practice, John Wiley, Chichester UK.
2. Barry R.G. and Charley, R.J. (1968) - Atmosphere, Weather and Climate, Marthren.
3. Bhalla, G.S. and Tyagi, D.S. (1989) - Pattern of Agricultural Development in India, ISIO, New Delhi.
4. Bloom, A.L. 1998/2001 - Geomorphology. 3rd Edition. Prentice Hall of India, New Delhi.
5. Burrough, Peter A. and Rachael McDonnell, (1998) - óPrinciples of Geographical Information Systemsô Oxford University Press, New York.
6. Chandana R.C., 2016 - Geography of Population : Concepts Determinants and Patterns, Kalyani Publications New Delhi-16.
7. Chorley, R.J., Schumm, S.A. and Sugden, D.E. 1984 - Geomorphology. Methuen and Company Ltd., London.
8. Clarke, J.I. 1973 - Population Geography, Pergaman Press, Oxford.
9. Cromley, R.G. 1992 - Digital Cartography, Prentice Hall, Englewood Cliffs, N.J.
10. David Ebdon 1991 - Statistics in Geography, Blackwell Publishers.
11. Demers M.N. 1997 - Fundamental of Geographic Information System. John Wiley & Sons, Inc., New York.
12. Demko, G.J. Et.Al. 1970 - Population Geography, A Reader, Mc Graw-Hill, New York.
13. Fairbridge, R.W. (Ed.) 1968 - Encyclopaedia of Geomorphology. Reinhold Book Corporation., New York.
14. Fisher, F.P. 1991 - Spatial Data Sources and Data Problems in Geographi- - cal System Information Systems : Principles and - Applications, M.J. Maguire et al, Eds. London : - Longman, 1.
15. Geertman, S. 1997 - Geographical Information Technology as a Planning Tool Proceedings of the Third Joint European Conference on GIS, Vienna.
16. George Joseph, (2004) - ñFundamentals of Remote Sensingò, Universities Press - (India) P.Ltd.
17. Goudie, Andrew (Ed.) 2004) - Encyclopaedia of Geomorphology. Volume-2. - Routledge, London.
18. Government of India 2004 - Disaster Management in India ï A Status Report. - Ministry of Home Affairs, National Disaster Management Division, New Delhi.
19. Gregor, H.F. (1970) - Geography of Agriculture : Themes in Research, Prentice Hall, New Jersey.
20. Gregory K.J. and Walling D.E. 1973 - Drainage Basin Form and Press. Edward Arnold, London.

21. Gupta, K.C. - Disaster Management in India. Allied Publishers, New Delhi.

22. Hewitt, K. 1997 - Regions of Risk : A Geographical Introduction to - Disaster. Longman, London.

23. Jensen, J.R., (2006) - ñRemote Sensing of the Environment ï An Earth Resources Perspectiveò, Pearson Education, Inc. (Singapore) Pvt. Ltd., Indian Edition, Delhil.

24. Joseph, G. 2005 - Fundamentals of Remote Sensing. Universities Press (India) Pvt. Ltd., Hyderabad.

25. Kapur, A. 2010 - Vulnerable INDIA ï A Geographical Study of Disasters SAGE Publications India PVT. LTD., New Delhi.

26. Koutsopoulos, K.C. 2005 - Integrated Approach to Development. The Case of GIS. in Space and Development : Dialectic Relationships and Interdisciplinary Approaches, D. Rokos, Ed. Athens : EnallktikesEkdosis.

27. Leica. A., (2003) - GPS Satellite Surveying, John Wiley& Sons, New York

28. Lo and Albert K.W. Yeung (2006) - ñConcepts and Techniques of Geographic Information Systemsò Prentice Hall of India. New Delhi.

29. Maguire, D.J., 1991 - An Overview and definition of GIS. in Geographical Information Systems : Principles and Applications, M.J. Maguire Et Al. Eds. London : Longman.

30. Mather, J.R. (1974) - Climatology : Fundamentals and Applications, McGraw-Hill, New York.

31. Morgan, W.B. and Munton, R.J.C. (1971) - Agricultural Geography, Methuen, London.

32. Murthy, D B.N. 2007 - Disaster Management : Text and Case Studies. Deep &Deep Publications, New Delhi.

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34. Oliver, John E. (1973) - Climate and Manôs Environment : An Introduction to Applied Climatology, John Wiley land Sons, New York

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37. Robinson, A.H., Et al 1995 - Elements of Cartography, John Wiley & Sons, Inc., New York.

38. Singh, Jasbir and Dhillon,S.S. (1984) Agricultural Geography. Tata McGraw Hill, New Delhi

39. Symons, L.J. (1966) - Agricultural Geography. Bell, London.

40. Thompson, Russell, D. (1997) - Applied Climatology ï Principles and Practice.

41. Tomlin, D.C. 1991 - Cartographic Modelling in Geographical Information Systems : Principles and Applications, M.J. Maguire et al, Eds. London : Longman.

42. Zelinsky, W.et. al. 1970 - Geography and a Crowding World, University Press, Oxford.

43. चुनियालडी.डी. २००४ - दुरसंवेदनतथा भौगोलीक सूचना प्रणाली, शारदा पुस्तक प्रकाशन, इलाहाबाद.

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Syllabi of M.Phil. in Geography
Semester-I
Paper-III
Applications of Information and Communication Technology (I.C.T.) in the Relevant Field

Duration : 3 Hrs. Theory : 80
Internal Asses. : 20

Course Objectives :

1. To understand basic functioning of Introduction Communication Technology.
2. To understand the tools of Information and Communication Technology.
3. To understand basic concepts of Networks and Network Security.

Course Outcomes :

At the end of course, students will be able to :

1. Identify various components of a computer system.
2. Describe the main functions of a operating system (OS) and explain the history leading to their current form
3. Create, edit, save, format and print documents to include documents with lists and tables and with other applications related to processing.
4. Create and format spreadsheets and presentation tools with adding multimedia and other operations related to it.
5. Use various web tools including Web Browsers, E-mail clients, search utilities and also understand its security related features

Syllabus

Unit I : Computer and its Components : 16 Marks

Introduction, Hardware and Software, Computers Characteristics, Generations of Computers, Types of Computers: Supercomputers, Mainframes, Personal computers, Note book computers, Categories of Computers, Applications of Computers, Input -- Process ï Output (IPO) Computer Ports & Cables, Number System.

Unit II : Operating System: Introductions : 16 Marks

Definition of Operating Systems, Operating System Functions, Operating System Concerns, Operating System Types, Algorithm, Flowchart, Installing Windows, Basic Operations in Windows, Interface, Introduction to Windows File System, Storing and Managing Data, Windows User Accounts, System Settings, Adjusting the Computers Settings, Introduction to Hadoop.

Unit III : Work Processing Software : 16 Marks

Introduction to MS Office, Word Processing with MS-Word: basic operations- Editing , Proofing , and Formatting text, paragraphs and pages, working with tables and images, Mail merge, working with charts, Equations, and Symbols.

Unit IV : MS Excel & Presentation Software : 16 Marks

Introduction to MS Excel and its User Interface, Working with workbooks & work sheets, Data Entry techniques, Table, Setting, Print related operations, Performing Calculations on Data: Working with Excel Formulas, Functions and Charts, Sorting / Filtering data. MS PowerPoint : Presentation Basics, Adding more components to the slides, Formatting Presentations, backgrounds and layout , Applying Themes, Using slide Master, Working with Multimedia, Printing slides and Delivering Presentations. Introduction to R tool.

Unit V : Introduction to Network & Network Security.: 16 Marks

The Internet : An introduction, Meaning and benefits of the Internet, The history of the Internet, Differences between Internet and World Wide Web, Connecting to the Internet, Web Browsers, User Interfaces of Web Browsers, Browser Customization, Search Engines, E-mails. Network Security: Introduction, Basic Terminology, Attacks, Cyber Crimes.

The Norms Relating to Internal Assessment in each Paper shall be as under :-

1) Home Assignment - 05 Marks
2) Seminar - 05 Marks
3) Group Discussion - 05 Marks
4) Library Work - 05 Marks

References Books :

1. Leon. A &Leon.M. ñFundamentals of Information Technology: Second Editionò, Vikas Publishing
2. Williams Sawyer, ñUsing Information Technology: A Practical Introduction to Computer & Communicationsò 6th International Edition, McGraw Hill.

Online Links :

1. ebooks. Ipude in / library and info sciences / BLIS/year 1/DLIS108 INFORMATION AND COMMUNICATION, TECHNOLOGY APPLICATIONS. pdf
2. https://www itu.int/en/ITU-D / ICT ï Applications/Pages/default. aspx

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Syllabi of M.Phil. in Geography
Semester-I
Paper-IV

Review of Literature / Field Work

Review of Literature and/or Field Work :80 Marks
Internal Assessment :20 Marks

Students shall undertake the Review of Literature and/or Field Work as prescribed by the RAC under the guidance of the supervisor. The supervisor shall evaluate the same and submit the marks / credit to the University through Research Centre.

The Norms Relating to Internal Assessment in each Paper shall be as under :-

1) Home Assignment - 05 Marks
2) Seminar - 05 Marks
3) Group Discussion - 05 Marks
4) Library Work/Analysis of Research Papers - 05 Marks

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Semester-II

Dissertation

S.N.	Name of Paper	Credits	Examination Scheme			Min.Passing Marks
			Dissertation	Internal Assessment	Total Marks	
1	Dissertation	24	400	--	400	200

The Distribution of Marks as per Different Assessment Parameters shall be as under :-

1) Seminars & Group Discussion - 50
2) Synopsis of Dissertation - 25
3) Representation &Predefence of draft Dissertation - 75
4) Evaluation of Dissertation - 200
5) Viva-Voce - 50

Securing at least 50% Marks in each Assessment Parameter shall be Mandatory.