UNIVERSITY OF CALICUT

Abstract

M.Phil Economics programme- syllabi, scheme of Model Question Papers of 2014 admission-approved-Orders issued

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G & A - IV - B

U.O.No. 2035/2015/Admn   Dated, Calicut University.P.O, 27.02.2015

Read:-1.Minutes of the meeting of the.Board of Studies in Economics (PG) held on 04-04-2014 (Item No. 1)

2.Minutes of the meeting of the Faculty of Humanities at its meeting held on 25-06-2014 (Item No.II 1)

3.Minutes of the meeting of the the Academic Council Meeting held on 15.01.2015 (item II i)

4.Orders of the Vice-Chancellor on the File No.6937/GA-IV B1/2012/CU dated 10-02-2015.

ORDER

Vide paper read first above, the Board of Studies in Economics (PG) held on 04-04-2014. resolved to approve the revised Syllabus of M.Phil Economics programme.

Vide paper read second above the meeting of the Faculty of Humanities at its meeting held on 25-06-2014 (item II 1) has resolved to approve the Minutes of the Economics (PG) held on 04.04.2014.

Vide paper read third above the Academic Council at its   Meeting held on 15.01.2015 (item II i)has resolved to approve the the Minutes of the meeting of Faculty of Humanities.

Vide paper read four above the Vice Chancellor has accorded permission to implement the decision of Academic aacouncil held on 15.01.2015 (vide item No.II i).

Sanction has therefore been accorded to implement the revised syllabus of M.Phil Economics programme with effect from 2014 admission onwards.

Accordingly orders are issued implementing the revised syllabus of M.Phil Economics Programme with effect from 2014 admission onwards.

Muhammed S

Deputy Registrar

To

The Head of the Department,Department of Economics,

Dr. John Mathai Centre, Aranattukara, Thrissur.

Copy to:

PA to CE/ Ex/EG/ EX 4/DR-AR PG Sn/PG Tabulation Sn/Library/System Administrator with

a request to upload the syllabus/ GAI F Sn/SF/DF/FC

Forwarded / By Order

Section Officer

PAPER I: RESEARCH METHODOLOGY AND DATA ANALYSIS

Module 1: Research Methodology

Concept of Scientific Research-Characteristics of Social Science Research-Types of research: Pure and Applied Research, Descriptive research, Diagnostic Research, Explorative research and Action research.

Formulation of research problem-Reviewing the literature-Identification of Research problems-Setting of Research question, objectives, Methodology and Data Source. Setting of hypotheses. Conceptualization in research: Working definitions, Defining concepts, Indicators and Variables. Concept of Falsification. Research report writing and presentations. References-Bibliography: MLA and APA formats.

Status of Social Science research in India. Plagiarism and its testing software: Viper and Turnitin.

Module 2: Types of Data and Sampling Methods

Data Measurements: Nominal, Ordinal, Interval and Ratio scales. Types of Data: Qualitative versus quantitative data. Time series, Cross section and Panel data. Primary and Secondary data. Data Sources.

Different types of samples: random sample, stratified sample, multistage sample, cluster sample, systematic sample and snow ball sample. Methods of choosing optimum sample size.

Module 3 : Basics Tools for Data Analysis

Statistical tools: Random variables and Probability distributions: Discrete and continuous - Normal Distribution-Sampling Distributions, Standard Error- Chi-square, students t and F distributions. Testing of Hypothesis: Various definitions, Parametric tests: Tests concerning Means, Proportion and Variance and ANOVA. Non parametric tests: X^2 tests - Sign test, Run test Mann-Whitney U test, Kruskal Wallis Test.

Module 4 : Econometric Tools and applications

Review of basic statistical measures: Central tendency Dispersion and Skewness. Bivariate data analysis: Correlation, Regression, Multiple Correlation and Partial Correlation.

Econometric tools- Procedure for developing an Econometric model, Multiple regression Models, Time Series Econometrics: Testing of Stationarity and Co-integration. VAR model.

Economic forecasting: AR, MA, ARIMA and their estimation using statistical packages viz. SPSS, EViews, Stata, Gretl, Give-Win and 'R'.

Module 5 : Multivariate Analysis and its applications

The Data matrix and the vector of means-The correlation matrix and Dispersion matrix. Linear combination of variables, Eigen values and Eigen vectors. Uses and interpretation of Principal component Analysis, Principal Components in Regression analysis. Principal component Analysis: Bivariate and multivariate. Discriminent analysis-Bivariate and Multivariate. Factor analysis, Cluster analysis.

References

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13. A Koutsoyiannis, *Theory of Econometrics*, Palgrave
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16. Johnston J, *Econometric Methods*, McGraw Hill
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18. K X Joseph *Basic Econometrics*, Coop Society, University of Calicut
19. Jeffrey M. Wooldridge, *Introductory Econometrics: A modern Approach*. Australia: South -Western College Publishing: 2000.
20. Kerry Patterson, *An Introduction to Applied Econometrics: a time series approach*. New York: Palgrave Edition 2000.
21. SP Gupta, *Statistical Methods* S. Chand & Co., New Delhi.
22. Deepak Chawla and Neena Soadhi, *'Research Methodology: Concepts and Case'* Vikas Publishing House, New Delhi (2011).
23. MLA Handbook for writers of Research Papers. 7th Edition, East west Press, New Delhi (2009).
24. Ranjit Kumar (2011) *"Research Methodology*: A step by step guide for beginner (Pearson 2nd Edition)
25. R A Cooper and A.J. Weekes: Data, Models and Statistical Analysis, Heritage Publisher, New Delhi.

MODEL QUESTION PAPER

MPhil Degree in Economics

(2014 admission onwards)

PAPER I : RESEARCH METHODOLOGY AND DATA ANALYSIS

Time : 3 Hours

Max Marks: 80

PART A

Very Short Answer Questions

(Answer all Questions. Each Question carries 2 marks.)

1. What is falsification?

2. Write a note on 'plagiarism'?

3. Distinguish between Time series and Cross section data.

4. Define random sample.

5. Define sampling distribution and Standard Error.

6. Distinguish between p-value and level of significance.

7. What do you meant by partial correlation?

8. Explain the significance of error term in an Econometric model.

9. What is correlation matrix?

10. How do you make use of principal component analysis in regression?

$(10 \times 2 = 20)$

PART B

Short Essay Questions

(Answer any 6 questions. Each Question carries 5 marks.)

11. Enumerate the different types of research.

12. Describe the different scales of measurement with examples.

13. Explain the different methods of random sampling.

14. Distinguish between parametric and non parametric tests.

15. How will you develop an econometric model?

16. Explain the term 'Stationarity in Time Series Econometrics.

17. A company's trainees are randomly assigned to groups which are taught a certain industrial inspection procedure by three different methods. At the end of the instructing period they are tested for inspection performance quality.

The following are their scores:

Method A: 80 83 79 85 90 68 61

Method B: 82 84 60 72 86 67 91 62

Method C: 93 65 77 78 88 48

Use Kruskal-Wallis Test to determine at the 0.05 level of significance whether the three methods are equally effective.

18. What are the salient features of prominent Statistical packages in applied Economic Research?

(6 × 5 = 30)

PART C

Long Essay Questions

Answer any two Questions. Each Question carries 15 marks.

19. Explain the different stages of Research Methodology

20. Define Unit root. How will you remove the unit root problem in time series analysis.

21. Explain the procedure, uses and interpretation of principal component analysis.

22. Explain Econometric Forecasting using ARIMA model and the role of statistical packages used for it.

(2 × 15 = 30)

PAPER II : ECONOMIC THEORY AND APPLICATIONS

Module 1: Microeconomic Fundamentals and Applications

Estimation and Forecasting of Demand. Elasticity Estimation. Concept of rationality, choice under uncertainty-expected utility function-equilibrium conditions-measures of risk aversion-demand for insurance.

Cost behavior, Production Function-surrogate, Translog, VES

Decision making under certainty and uncertainty. Game theory and its applications. EMV Criterion

Module 2: Foundations of Macroeconomic Theory

Definition and measurement of basic concepts in national income Accounting. UNSNA, Indian National Accounts Statistics methods of estimations and reliability

Micro Economic Foundations of Macro Economics; concept of fallacy of composition

An Overview of the warring schools of macroeconomics

Module 3 : Theories of Growth; and Development Issues

Approaches to Development: classical, Keynesian and Neo-classical approaches. Concept of innovation and its role on economic development. Role of institutions in economic development.

Pattern of economic growth across countries and over time. Why some countries are rich, and why are some other poor? Question of growth rates

Public Debt, Deficit and Economic Growth – empirical evidences?

Module 4 : Trade and Development (Review of Literature)

Free-trade agreements and its ramifications. Trade openness versus economic growth-empirical evidences. Balances of Payment and Economic Growth-empirical evidences. (Review of related articles from Economic and Political weekly)

Module 5: Environment and Development-

Environment and Development- Inter relationship and the question of right mix.

Field work: Students are expected to visit a place of importance on environment – related issues and write two research reports on the basis of field work by two groups.

Reference

1. RGD Allen – *Mathematical analysis for economics*, ELBS & Mc Millan, London,1974
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4. Hal R Varian, "*Intermediate Micro Economics*" PHI
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17. Candice Stevens (1993) The Environmental effects of trade. The world economy july.
18. T.N. Srinivasan (1999) Developing countries in the world trading system, The world economy, November.
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21. Ahluwalia and I.M.D. Little "India's Economic Reforms Essays in Favour of Manmohan Singh", OUP
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23. Kuznets S (1972) *Modern Economic Growth*, Oxford and IBH, New Delhi.
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26. Skarstein, Rune (1997) '*Development Theory: A Guide to Some Unfashionable Perspectives*', OUP
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29. Maddison, Angus – "The World Economy: A Millennial Perspective", OECD, Overseas Press India Limited, New Delhi

MODEL QUESTION PAPER

MPhil Degree in Economics
(2014 admission onwards)

PAPER II : ECONOMIC THEORY AND APPLICATIONS

Time : 3 Hours

Max Marks: 80

PART A

Very Short Answer Questions
(Answer all Questions. Each Question carries 2 marks.)

1. What do you mean by 'creative destruction'?
2. Explain the concept of Total Factor Productivity
3. How do we measure trade openness?
4. What are the components of BoP current account?
5. What is Demand Forecasting ?
6. What is Translog Production function?
7. Distinguish between one sector neo-classical and Keynesian models
8. What do you mean by flow of funds Accounts?
9. Write a note on EMV criterion
10. Explain the theory of Natural Rate of Unemployment.

(10 × 2 = 20 marks)

PART B

Short Essay Questions

(Answer any 5 questions. Each Question carries 6 marks.)

11. Examine the important post Keynesian models of demand for money.
12. Explain the basic tenets of Neo Classical school.
13. Examine the recent trends in India's public debt and explain its major sources
14. Do you think that the Indian Agriculture benefitted out of the Agreement on Agriculture? Why?

15. Give a note on simplex method under game theory.
16. Distinguish between Risk aversion and Risk neutral.
17. Examine the nature of relationship between environment and economic development.
18. Explain the role of innovations in Economic Development.

(5 × 6 = 30 marks)

PART C

Long Essay Questions
Answer any two Questions. Each Question carries 15 marks.

19. Explain the Hicks Hansen ISLM Frame Work. What are its policy implications?

20. What is NM Index? Explain Neuman Morgonsterm method of measuring utility of money.

21. Prepare a research Proposal on the role of informal institutions on Kerala's Social Development.

22. Explain the anatomy of inflation and unemployment in the short run and long run.

(2 × 15 = 30 marks)

PAPER III : SELECTED TOPICS IN INDIAN ECONOMY

Module 1 –Growth and Structural changes in Indian Economy

Growth in GDP and PCI – Sectoral contribution to GDP and employment – factor payments – public and private sector-service sector as the biggest contributor to regional disparity in India. Inter-state variations in growth and development-HDI, GDI and GEM.

Module 2 – Issues of Indian Agriculture and Industry

Role of Agriculture and industry in the national economy – in terms its contribution to national income and employment. The role of reforms and World Trade Agreements on Indian Agriculture and industrial growth. Tracing the reasons for the changing cropping pattern. Capital formation and subsidy in the Indian agriculture. Growth and structure of the Indian industry. Tracing the reasons for the industrial backwardness. Performance of public sector enterprises.

Module 3 – Poverty in India : Measurements and debate

Poverty-Approaches to poverty-estimations of poverty-methodological issues. Estimates of Rangarajan Committee in comparison with previous committees. HDI, GDI and HPI in India. Hunger index – Multi dimensional poverty–feminisation of poverty. Regional variations in poverty. Measures of inequality and its regional variations.

Module 4 – Unemployment and Inflation in India

Structural and demographic profile of India- National Population Policy. Unemployment estimation and its Inter-state variations in unemployment. Nature and characteristics of unemployment in India. Formal and Informal sectors in India over the period. The trend, composition and causes of Inflation in India.

Module 5 – Issues of Trade, Finance and BoP

Changing composition and direction of trade in India. India amidst Global crisis-The impact of crisis on the Indian Economy-Global meltdown-Dollar Hegemony and sub prime market collapse. The BoP situation and the exchange rate fluctuations.

Suggested Readings:

1. Vijay Joshi and 1. MD Little, India: Macro Economics and Political Economy – 1964-1991, Oxford University Press, New Delhi 1994.
2. Uma Kapida (ed), Indian Economy Since Independence, Academic Foundation, New Delhi 2004.
3. Vijay Johi and I. M.D Little, India's Economic Reforms, 1991 – 2001, Oxford University Press, New Delhi, 1996
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15. ET Mathew Employment and Unemployment in Kerala, Sage publishers, New Delhi, 1997
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19. K.K. George Limits to Kerala Model of Development CDS.
20. UNDP "Human Development Report", Various years.
21. World Bank " World Development Report" Various years.

MODEL QUESTION PAPER

MPhil Degree in Economics

(2014 admission onwards)

PAPER III: Selected Topics in Indian Economy

Time : 3 Hours

Max Marks: 80

PART A

Very Short Answer Questions

(Answer all Questions. Each Question carries 2 marks.)

1. Bring out the major reforms initiated in 1991.

2. What do you mean by forward linkages in agriculture?

3. How is HDI calculated?

4. Write a note on National Population Policy 2000.

5. Examine the composition of India's exports.

6. Explain Sen's approach to poverty.

7. Explain the phenomenon of global financial crisis.

8. What are the indicators used to calculate Multi Dimensional Poverty Index?

9. Explain the trend in juvenile sex ratio in India.

10. Write a note on Millennium Development Goals.

(10 × 2 = 20 Marks)

PART B

Short Essay Questions

(Answer any five questions. Each Question carries 6 marks.)

11. Examine the trend, composition and causes of inflation in India.

12. Explain the focus of National Agricultural policy 2000.

13. What are the important recommendations of the first Narasimham Committee?

14. Explain the economic impact of migration on Kerala Economy.

15. Explain the role of co-operatives in providing agricultural credit.

16. What are the objectives of the XIth Five year Plan? Was the plan successful in achieving the goals?

17. Did Green Revolution revolutionze Indian Agriculture? Explain

18. Examine the growth and structural changes in Indian economy as seen from the national income data.

(5×6 =30 marks)

PART C

Long Essay Questions

Answer any two Questions. Each Question carries 15 marks.

19. Describe the structural and demographic features of population of India.

20. Explain the features of the New Industrial Policy initiated in 1991.

21. Critically examine the role of WTO and its implications for Indian Agriculture.

22. What do you mean by vicious circle of poverty? Explain the trend, magnitude and causes of poverty in India.

(2 × 15 = 30 Marks)

University of Calicut
Master of Philosophy (M. Phil.) Degree Course

University of Calicut offers the one-year course of Master of Philosophy (M. Phil.) under the various Faculties with the aim of providing opportunities to Post-Graduate students in different subjects to undergo a one-year (Two semesters) course in research area consisting of written examination (I Semester) followed by a dissertation work (II Semester). This course helps the students to acquire up-to-date knowledge in the selected subject and also to carry out research in the same topic on a small project, which help them to get a hands-on experience in research in the latest area selected.

Rules and Regulations

The Master of Philosophy (M. Phil.) course is a one year research oriented program and shall be completed in two continuous semesters.

1. Notifications inviting applications for admission to the M. Phil. course shall be issued in the month of June/July of every year.

2. The prescribed application forms for admission shall be issued from the University office on receipt of the cost of application form, fixed by the University.

3. Applications based on the subject in which specialization is sought shall be submitted to the respective Heads of the Departments of the University of Calicut, on or before the last date mentioned in the notification. The application shall be accompanied by an original chalan receipt of entrance examination fee prescribed by the University from time to time.

4. Eligibility: Candidates who possess master's degree in the subject concerned or any relevant subjects with not less than 55% marks of this University or of any other Indian or foreign University recognized as equivalent thereto by Calicut University are eligible to apply for the M. Phil. Degree course. The relevance of the subject for eligibility shall be decided by the Board of Studies and the Faculty

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concerned (for teachers under Faculty Improvement Programme scheme, 55% marks need not be insisted upon). In the case of OEC/OBC candidates 5% marks relaxation is given and in the case of students belonging SC/ST category a pass in the qualifying examination is sufficient.

5. **Admission:** The admission to M.Phil. is based on an entrance examination conducted by the Departments concerned and the marks obtained in the qualifying examination. A committee, consisting of three senior faculty members constituted by the Departmental Council, shall conduct the entrance examination. The rank list shall be prepared based on an index prepared by giving equal weightage to the qualifying examination and entrance examination. Admission shall be made from this rank list prepared in each department. Reservation as per rules shall be applicable in the allotment of seats at the time of admission. In the case of candidates exempted from writing entrance examination as per clause 8, the total marks obtained at the qualifying examination will be considered for indexing.

6. **Entrance examination:** The maximum marks for the entrance examination shall be 100, with objective type questions and descriptive type questions of equal weightage (50 marks each). The duration of the entrance examination shall be two hours. The number of seats in each department, date of entrance examination, publication of result and commencement of classes shall be clearly mentioned in the notification inviting application for admission to M. Phil. Degree course.

7. The candidates who secure 50% marks and above in the entrance examination are eligible to consider for admission to M. Phil. Degree course. Candidates belonging to SC/ST communities, however, need only 35% marks in the entrance examination.

8. Teachers, working in affiliated colleges, seeking admission under FIP scheme need not appear for the entrance examination.

9. The number of candidates to be admitted to the Course in a Department shall be decided by the Departmental Council in advance and shall be informed to the Office of the Director of College Development Council, before issuing the notification inviting application for M. Phil. Course, depending upon the number of recognized supervising teachers in the Department. However, no department shall be allowed to stop or discontinue the course either for a short period or permanently without the prior sanction of the Syndicate and Academic Council.

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The number of seats in each department shall be clearly mentioned in the notification. Out of the total number of seats in each department, 50% shall be reserved for students and 50% for teachers under FIP scheme. If sufficient number of candidates is not available in either category, allotment will be done from other category.

10. Every candidate shall submit the following original documents at the time of admission: 1) the original/provisional certificate of P.G degree and P.G. mark lists, 2) community certificate to prove the religion and caste in the case of SC/ST/OEC and O.B.C candidates, 3) the original transfer certificate and 4) a 'no objection certificate' from the Manager or Principal and relieving order in the case of teachers in affiliated colleges under FIP scheme. 5) original FIP sanction order from the UGC.

11. The selected candidates shall remit the prescribed fee in the CUF account of the University of Calicut, and the caution deposit in the account of the Head of the Department. The fee for Second semester of the Course shall be remitted within 15 days from the date of beginning of that semester. The candidates belonging to SC/ST/OEC and other backward communities shall be eligible for all concessions as per Govt./University rules.

12. The candidates who get admission to M. Phil. course shall do the course work, the duration of which shall be two semesters. The course work shall be based on credit system. Three papers, each carrying four credits (total 12 credits), shall be the course requirement in the first semester. The following are the three papers carrying 100 marks each (Please also see Annexure-I for details).

Paper 1. Research Methodology,

Paper 2. Advanced trends in the subject, and

Paper 3. Specialization

The field of specialization shall be decided by the Departmental Councils. In the second semester the student shall carry out a research project under the supervision of a Research Guide. The project shall be on the area of specialization, which he/she takes up for study. The candidate shall submit a dissertation at the end of second semester and it shall carry 12 credits. The minimum required Cumulative Grade Point Average (CGPA) in each semester should be 5.5 out of a 10-point scale.

The grading shall be as follows:

Percentage of marks	Grade	Grade Points	Remarks
90 and above	A+	10	
80-89	A	9	
70-79	B+	8	
60-69	B	7	
50-59	C+	6	
Below 50	D	Nil	

Note: 0.5% marks and above will be rounded to the next number

The respective Departmental Council shall prepare the syllabi for the course work, which shall be approved by the P.G. Board of Studies. The senior-most teacher, among those teaching/supervising the M. Phil. students shall be the Chairperson of the Board of Examiners for the I/II Semester examinations.

13. Conduct of Examination: All the external examinations and valuation of answer scripts and dissertation shall be conducted by the office of the Controller of Examinations.

14. In each paper there shall be an external and internal evaluation. The external evaluation shall be for 80% and internal for 20%. The arrangements for external evaluation shall be done by the Office of the Controller of Examinations. The internal evaluation shall be done by the concerned Faculty members engaging the classes or supervising the dissertation work. The internal evaluation shall be done by means of any **three** of the following methods: seminars, assignments, written examination or *viva voce*, as decided by the Department Council.

15. Setting of question paper for the theory paper shall be done by the external experts, selected from a panel consisting of at least 3 experts for setting question paper. Separate panels shall be submitted for each paper. The panel for setting question paper and valuation of answer scripts or dissertation shall be submitted separately. The panel of question paper setters and external examiners (Minimum 3 names

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with full address, e-mail ID, and Telephone number) obtained from the concerned teachers and names of internal examiners shall be forwarded to the Controller of Examinations by the Head of the Department well in advance.

16 Double valuation system will be followed for semester end examination. The answer papers are firstly valued by the external examiners and then by internal examiners. The mark list prepared by each examiner shall be forwarded separately and confidentially to the Chairperson of the Board of Examiners and he/she shall consolidate the marks awarded by both the examiners by taking average. If the difference is 15% or more in a particular paper that paper shall be valued by a third examiner appointed by the Controller of Examinations from the same panel and that mark shall be considered for the award. There shall be a minimum of 50% marks for each paper for a pass. Those who have failed/failed to appear the examination in the first semester shall be allowed to repeat the examination along with the next batch of the first semester students; however, they can proceed with the second semester dissertation work.

17. After the completion of the second semester an additional period of three months shall be given to candidates to submit the dissertation. If required, another three months shall also be given in exceptional cases on the recommendation of the Departmental Council with a fine as fixed by the Syndicate. In no case a candidate will be allowed to submit the dissertation after 12 months of the completion of the course.

18. The dissertation submitted at the end of second semester for the M. Phil. degree shall be evaluated by the members of a Board of Examiners consisting of one external examiner appointed by the Vice-Chancellor from a panel of three examiners submitted by the respective supervising teacher. The Head of the Department shall forward the panel of External and Internal examiners to the Controller of Examinations, within one month after the commencement of the second semester. The senior-most teacher from among the internal examiners shall be the Chairperson of the Board of Examiners. After the evaluation of the dissertation, there shall be a *viva voce* examination, jointly conducted by the external examiner and the supervising teacher. The candidate shall be graded on the basis of his/her performance. The supervising teacher and external examiner shall hand over the grades awarded for the dissertation and *viva voce* examination

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with respect to all the candidates under him/her to the Chairperson of the Board of Examiners, who shall in turn, forward the same to the Controller of Examinations. The Controller of Examinations shall publish the results after the meeting of the Pass Board, within 15 days from the date of receipt of the grades from the Chairperson of the Board of Examiners.

19. The candidates after the successful completion of the second semester shall be awarded the M. Phil. degree, based on the grades of examinations of the first semester and grades of the dissertation and *viva voce* of the second semester. The Controller of Examinations shall issue the grade sheets and provisional degree certificates to the students concerned.

20. As soon as the new regulations for M. Phil. Course come into effect, all the earlier rules and regulations for M. Phil./Ph. D. integrated programme shall be treated as cancelled.

ANNEXURE-I

Semester	⊗ Paper	Duration of examination	Marks		
			External	Internal	Total
I	1	3 hours	80	20	100
	2	3 hours	80	20	100
	3	3 hours	80	20	100
II	Dissertation		120	30	150
	Viva-voce		40	10	50
				Grand Total	500

21. This Regulation shall be applicable to the M.Phil course started in 2007.

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Paper I - Research Methodology and Data Analysis

Paper II - Economic Theory And Applications

Paper III - Selected Topics in Indian Economy