

Application No.:

(to be filled by office)



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Indira Gandhi National Open University,
New Delhi &
Madras School of Economics, Chennai

APPLICATION FORM FOR ADMISSION INTO TWO-YEAR POST-GRADUATE PROGRAM IN ACTUARIAL ECONOMICS, APPLIED QUANTITATIVE FINANCE AND ENVIRONMENTAL ECONOMICS LEADING TO M.Sc. DEGREE

(Note: Please fill in each column in your own handwriting, put (√) wherever necessary and strike off the portion not applicable. The filled in application along with a demand draft of Rs. 1000 (in case of SC/ST candidates Rs. 500) drawn in favour of IGNOU payable at New Delhi should be sent on or before 10th July 2010 to

- (a) The Registrar, Student Registration Division, IGNOU, Maidan Garhi, New Delhi-110068 or
- (b) Administrative Officer, Madras School of Economics, Gandhi Mandapam Road, Chennai 600025

Select the program for which you want to apply. If you are applying for more than one program, indicate your preference (highest preference is indicated by 1)

		Preference (1, 2, 3)
Actuarial Economics	<input type="checkbox"/>	-----
Applied Quantitative Finance	<input type="checkbox"/>	-----
Environmental Economics	<input type="checkbox"/>	-----

Select the Campus for 2-year PG Program :

MSE , Chennai

IGNOU, New Delhi

1. a) Full Name of the Candidate :
(IN BLOCK LETTERS)
- b) Address for communication :-----

- c) Contact number(s) : Fixed-line:
Mobile :
- d) Email Address :
2. Parent/Gardian's Name & Occupation :
3. Sex : Male Female
4. Date of Birth and Age (attach proof) :
5. Community (State whether OBC/SC/ST; attach proof) :
6. Annual Income of the Family :
7. Qualifying Examination Passed* :
(Attested photocopy of both Degree Certificate & Statement of marks of all Examinations during UG course to be enclosed)
** state "Awaiting final results " if final semester/year results are not announced*
8. Name of the College/University where :
studied for UG course and
Year of Passing
9. Percentage of Marks Obtained in UG : Overall :
Quantitative Papers#: :
Maths, Statistics and other quantitative papers together
10. Percentage of Marks obtained in Plus 2: Overall :
Mathematics :
11. DD Number, Amount & Date :
- 12. Select the Centre for Entrance Test (in order of preference) from: Chennai; Kolkata; Mumbai; New Delhi:**
- 1.
 - 2.
 - 3.
 - 4.

Declaration by the Candidate:

I declare that the information furnished by me herein are true and correct.

Place:

Date :

Signature of the Candidate

Additional Form

Applicants to MSE are required to fill up the following additional information

(This page should be sent to In-Charge (Admissions), Madras School of Economics,
Gandhi Mandapam Road, Chennai 600025)

1. a) Full Name of the Candidate :
(IN BLOCK LETTERS)
- b) Address for communication :-----

- c) Contact number(s) : Fixed-line:
Mobile :
- d) Email Address :

2. Select the program for which you want to apply. If you are applying for more than one program, indicate your preference (highest preference is indicated by 1)

		Preference (1, 2, 3)
Actuarial Economics	<input type="checkbox"/>	-----
Applied Quantitative Finance	<input type="checkbox"/>	-----
Environmental Economics	<input type="checkbox"/>	-----

3. Whether Hostel Accommodation is required? Yes / No

4. Would you like to participate in the one-week orientation program in mathematics and computer applications? (To be organized at MSE, Chennai prior to the commencement of classes) Yes / No

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Hall Ticket for the Entrance Test

(To be shown by the candidate at the time of the entrance test)

Hall Ticket Number: _____

Date of Entrance Test: _____

Entrance Test Centre: _____

Authorized Signatory

Syllabus for the Entrance Test

The entrance test will contain two parts. Part One is compulsory for all candidates. Part Two contains two sections and the candidates can choose one. The syllabus for Part One includes questions on Plus 2 level mathematics. The options for Part Two include graduate level mathematics and graduate level economics. The syllabus for mathematics option include linear algebra, limits and derivatives, unconstrained and constrained optimization, integration, and basis statistics. The syllabus for economics option include micro- and macro-economics and Indian economy. The candidates have to answer 100 multiple choice questions – 50 from part one and 50 from part two. Maximum marks are 100 and maximum allowed time is 90 minutes.

Model Questions for the Entrance Test

- The Correlation Coefficient would lie between:
 a. -1 and +1 b. 0 and 1 c. -1 and 0 d. 0 and ∞
- The rank of a matrix is equal to :
 a. number of non zero rows after row-reduction process
 b. number of zero rows after column reduction process
 c. number of non zero elements in the matrix
 d. number of zero elements in the matrix
- $f(x)$ is continuous at a point $x=a$ if and only if:
 a. $\lim_{x \rightarrow a} f(x) = f(x)$ b. $\lim_{x \rightarrow a} f(x) = f(a)$
 c. $\lim_{x \rightarrow a} f(x) = f(ax)$ d. $\lim_{x \rightarrow a} f(x) = f(x+a)$
- If $f(x) = e^{kx}$, $\frac{df}{dx} = f'(x)$ equals:
 a. e^{kx} b. ke^{kx} c. ke^x d. kkx
- A distribution is positively skewed if:
 a. Median > Mode b. Mean > Median > Mode c. Mode > Median
 d. Mode > Median > Mean
- Given that $q = Ap^\alpha$, where q -quantity demanded and p - price and A and α are constants. The (price) elasticity, η is:
 a. $\alpha Ap^{\alpha-1}$ b. $Ap^{\alpha-1}$ c. α d. Ap^α
- $\int (e^x + \frac{1}{x}) dx$ equals:
 a. $e^x + c$ b. $e^x + \ln x$ c. $e^x + x + c$ d. $e^x + \ln x + c$
- $\int_1^5 3x^2 dx$ equals:
 a. 125 b. 6x c. 6x+5 d. 124
- If the government spending is increased by 500 and taxes are increased by 500, the equilibrium level of income:
 a. decrease by 500 b. no change c. increase by 1000
 d. increase by 500
- The Nobel Prize in Economics for 2009 is given to:
 a. Amartya Sen b. Joseph Stiglitz c. Partha Dasgupta
 d. Elinor Ostrom and Oliver E. Williamson