

# Complimentary Copy

## UNIVERSITY OF DELHI

FACULTY OF MATHEMATICAL SCIENCES

### BULLETIN OF INFORMATION



For admission to

**M.A. /M.Sc. Statistics**

2014-2015

**For any query regarding admission, contact at 011-27666041**

## About the Department

The Department of Mathematical Statistics was established in August 1973, though the teaching of M.A. in Mathematical Statistics had been introduced as early as in July 1957 at the initiative of Professor Ram Behari as part of a development programme adopted by the Department of Mathematics. Professor H.C. Gupta was the first head of the Department and he can be credited with the setting up of a good school in Stochastic Processes. In 1987, the Department of Mathematical Statistics was re-named as the Department of Statistics. The Department is running the post-graduate (M.A./M.Sc.), M.Phil. and Ph.D. Programmes in Statistics. In 1971, the scope of post-graduate course in Mathematical Statistics was extended leading to M.Sc. degree in Mathematical Statistics.

The syllabus of M.A./ M.Sc. course has been revised and restructured periodically to incorporate and reflect the latest in the discipline. The Department imparts rigorous training and exposure to the students in computer education by way of introducing the latest state-of-the-art in the programming language and computer software to enable the students to perform statistical data analysis. With a view to preparing research background of the students, the M. Phil. course in Mathematical Statistics was introduced in 1977 and the same has been continually updated covering most of the topical areas of Theoretical and Applied Statistics at the specialization level.

The Department has laboratories equipped with the basic and modern computing facilities. There is a good collection of books in laboratories with latest titles in various areas of statistics. Two computer laboratories with latest computing systems and related equipment have been setup in the Department for the use of students, research scholars and teachers. Regarding the job opportunities for the alumni, the Department has its own placement cell operating since academic year 2005-06. We can take pride in the fact that students get suitable placement in Research Institutes or Industries or Government Departments. Quite a few are selected in Indian Statistical Service (ISS) each year.

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## TEACHING STAFF IN THE FACULTY

Prof. Jagdish Saran	Room No.01, Ground Floor &	
Dean, Faculty of Mathematical Sciences	Room No. 313, Third Floor	27666041
& Head, Department of Statistics	New Academic Block	27666671
	University of Delhi	27666810

### DEPARTMENT OF STATISTICS UNIVERSITY OF DELHI DELHI-110007

Sl. No.	Name	Designation	Tel. No.
1.	Prof. Jagdish Saran	Professor & Head	27666671/304 27666671/313
2.	Dr. (Mrs.) Gurprit Grover	Associate Professor	27666671/306
3.	Dr. Ajit Chaturvedi	Associate Professor	27666671/307
4.	Dr. (Mrs.) Poonam Singh	Associate Professor	27666671/308
5.	Dr. (Mrs.) Ranjita Pandey	Assistant Professor	27666671/310
6.	Mr. Ashok Kumar	Assistant Professor (Adhoc)	27666671/305
7.	Dr Kapil Kumar	Assistant Professor (Adhoc)	27666671/305
8.	Dr Ramprawesh Singh Gautam	Assistant Professor (Adhoc)	27666671/311
9.	Mr. Arindam Fadikar	Assistant Professor (Adhoc)	27666671/311
10.	Mr. Abhishek Kumar Umrawal	Assistant Professor (Adhoc)	27666671/311

## 1. COURSE OF STUDY IN STATISTICS

### Sl. No. Course

1. M.A./M.Sc. Statistics

### No. of seats

93 (North & South Delhi Campus)

Gen- 47, SC -14, ST-07, OBC -25

\*Supernumerary Seats: PWD=03,  
Sports/ECA =05, CW=05, Foreign  
Students=05

\*as per the University of Delhi rules.

## 2. DURATION OF THE COURSE

Two Years (4-Semesters)

## 3. IMPORTANT DATES

Monday, March 10, 2014	:	Online registration start
Friday, April 18, 2014	:	Last date for submission of complete application form
Saturday, June 21, 2014	:	Date of Entrance Examination Timings – 10:00 a.m. to 1:00 p.m.
Monday, July 07, 2014 (Tentative)	:	Date of declaration of result of Entrance Test
Monday, July 14, 2014 (Tentative)	:	Date of Admission List (Subject to declaration of B.Sc. (Hons.) Statistics result.)

## 4. ADMISSION PROCEDURE AND ELIGIBILITY CONDITIONS FOR ADMISSION TO M.A./M.Sc. COURSE IN STATISTICS 2014-2015

Admission to Post-Graduate Course in Statistics leading to a Master's Degree in Statistics will be made through two modes:

Mode-I : Direct Admission

Mode-II : Through an Entrance Test

### **Examination Passed & Minimum Percentage of marks required**

**Mode-I:** 50% seats in the M.A./M.Sc. Statistics shall be filled on the basis of a merit list drawn from the category of candidates who have passed B.Sc. (Hons.) Examination in Statistics of University of Delhi under 10+2+3 scheme of examination with at least 60% marks in aggregate.

(Candidates appearing in the final year Examination are eligible to apply subject to submission of their mark sheet latest by 10<sup>th</sup> July 2014.)

**Mode-II:** The remaining 50% seats will be filled on the basis of merit in an entrance examination from the candidates satisfying any of the following eligibility criteria:

1. Any candidate who has obtained bachelor's degree in any subject and has studied at least 3 courses each of one year duration or 6 courses each of one semester duration in Statistics under 10+2+3 scheme of examination securing at least 50% marks in aggregate will be eligible to appear in entrance examination.
2. Any candidate who has obtained bachelor's degree in Mathematics (Hons.) or Computer Science (Hons.) with at least one paper in Statistics under 10+2+3 scheme of examination of the University of Delhi or any other examination recognized as equivalent thereto with at least 50% marks in aggregate and at least 60% marks in a paper of Statistics.

Any candidate appearing in the final year examination of bachelor's degree of the same calendar year shall also be eligible to appear in the entrance test, however, he/she will be considered for admission if he/she fulfills the other requirements of admission.

**Note:** If a candidate qualifies for admission through both Modes, he/she will be granted admission through Mode-I.

<b>Number of Seats Available</b>	<b>:</b>	<b>93</b>
General Category	Mode-I	24
	Mode-II	23
SC Category	Mode-I	07
	Mode-II	07
ST Category	Mode-I	03
	Mode-II	04

OBC Category	Mode-I	13
	Mode-II	12
	<b>Total:</b>	<b>93</b>

\*Supernumerary Seats

PWD	Mode-I	02
	Mode-II	01
Sports/ECA	Mode-I	upto 03 (upto 5%)
	Mode-II	upto 02 (upto 5%)
CW	Mode-I	03
	Mode-II	02

Foreign Nationals\* = 05

\*As per the University of Delhi rules.

**Modalities:**

1. The candidates belonging to reserved categories will be provided relaxations/ reservations as per University rules in both the Modes of admission. It may be noted that candidates can apply simultaneously under GEN/SC/ST/OBC/PwD/Sports/ECA/CW categories.
2. Under mode-I the minimum requirement for candidates belonging to SC/ST categories will be 40% marks in aggregate and for OBC category will be 54% marks in aggregate in B.Sc.(Hons.) examination in Statistics of University of Delhi.
3. Under Mode-II the minimum requirement for candidates belonging to SC/ST categories will be 40% marks in aggregate and for OBC category will be 45% marks in aggregate.
4. The entrance examination shall be of three hours duration. The question paper shall be of 400 marks consisting of 100 MCQs (multiple choice questions).
5. Each MCQ carries 4 marks. For each correct response the candidate will get 4 marks. For each incorrect response shown in the answer-sheet, **one mark will be deducted**. No mark will, however, be deducted for not attempting a question. More than one response indicated against a question in the answer-sheet will be considered as incorrect response and will be negatively marked.

6. As per the University Notification No. Acad. I / 087/ PG. Adm. / streamlining/2013/552 dated January 31, 2014, the GEN/OBC category candidates applying for admission to M.A./M.Sc. (Part-I) Statistics course shall be charged registration fee @ Rs.500/- for each application. In the case of candidates belonging to SC/ST/PWD category, the registration fee will be Rs.250/- for each application payable by a bank draft drawn in favour of the **Registrar, University of Delhi, Delhi-110007 payable at Delhi or by on-line gateway payment** as per the final decision of the University authorities in this matter.

**Note:** Applicants who have graduated under 10+2+3 scheme or any Equivalent Scheme are eligible for admission.

## Syllabus for the Entrance Test

**Linear Algebra:** Elements of set theory. Vector space, subspace and its properties. Linear independence and dependence of vectors. Matrices, rank of a matrix, reduction to normal forms, linear homogeneous and non-homogeneous equations. Cayley-Hamilton theorem, characteristic roots and vectors. De Moivre's theorem, relation between roots and coefficient of  $n^{\text{th}}$  degree equation. Solution to cubic and biquadratic equation.

**Calculus:** Limit and continuity, differentiability of functions, successive differentiation. Leibnitz's theorem, partial differentiation. Euler's theorem on homogeneous functions. Tangents and normals, asymptotes, singular points, curve tracing, reduction formulae. Integration and properties of definite integrals, quadrature. Rectification of curves. Volumes and surfaces of solids of revolution.

**Differential Equations:** Linear, homogeneous, separable equations. First order higher degree equations, algebraic properties of solutions. Linear homogeneous equations with constant coefficients. Solution of second order differential equations.

**Probability and Sampling Distributions:** Notions of sample space and probability. Theorems on probability. Combinatorial probability. Conditional probability and independence. Bayes theorem and its applications. Random variables and expectations. Moments and moment generating functions. Cumulants and Cumulant generating functions. Characteristic function. Standard univariate discrete and continuous distributions. Bivariate probability distributions. Marginal and Conditional distributions. Independence of variates. Bivariate normal and multivariate normal distributions. Transformation in univariate and bivariate distributions. Chebychev's inequality. Weak law of large numbers. Strong law of large numbers. Central limit theorem. Sampling distribution of a statistic, standard errors of sample mean and sample proportion. Sampling distribution of sample mean and sample variance for normal distribution. Sampling distributions of Chi-square, t- and F- statistics.

**Descriptive Statistics:** Measures of location and dispersion. Measures of skewness and kurtosis. Absolute moments and factorial moments. Inequalities concerning moments. Theory of attributes, consistency of data, conditions for consistency, independence and association of attributes, measures of association and contingency. Correlation and regression. Karl Pearson's coefficient of correlation. Lines of regression. Rank correlation. Intraclass correlation. Multiple and partial correlations. Simple linear regression.



**Statistical Inference:** Elementary theory of estimation (consistency, unbiasedness, minimum variance, sufficiency). Minimum variance unbiased estimators. Cramer-Rao inequality. Methods of estimation (maximum likelihood method, method of moments). Rao-Blackwell and Lehmann-Scheffe theorems. Interval estimation (confidence intervals for the parameters of normal distribution, confidence intervals for difference of means and for ratio of variances). Tests of hypotheses (basic concepts, MP test and region, simple applications of Neyman-Pearson lemma, likelihood ratio test, UMP test, UMPU test). Non-parametric tests (sign-test, Wald-Wolfowitz run test, run test for randomness, median test, Wilcoxon-Mann-Whitney test).

**Sample Surveys and Design of Experiments:** Sampling and non-sampling errors. Conventional sampling techniques (SRSWR/SRSWOR, stratified random sampling, systematic sampling). Ratio and regression methods of estimation.

ANOVA and ANOCOVA. Basic designs such as CRD, RBD, LSD and their analyses. Missing plot technique.  $2^n$  ( $n \leq 5$ ) Factorial experiments and their construction and analysis. Total and partial confounding.

## GENERAL INFORMATION

### FOR M.A. /M.Sc. COURSE IN STATISTICS

- (i) Candidates desirous of seeking admission in M.A./M.Sc. Statistics shall be required to register their names online for both the modes (Mode-I & Mode-II) separately as per the schedule prescribed and eligibility conditions for the purpose.
- (ii) Admission for mode-I shall be made in order of merit and in order of preference given by the candidate and upto the number of seats available in the Colleges.
- (iii) Admission for mode-II shall be made on the basis of merit in the Entrance Examination to be held on June 21, 2014 and in order of preference given by the candidate and upto the number of seats available in the Colleges.
- (iv) \*The Registration form duly filled in accompanied with all the relevant certificates (original and self-attested copies thereof in person only) shall to be submitted at the registration Center: Room No. 15, Ground Floor, New Academic Block, Faculty of mathematical Sciences, North Campus, University of Delhi, Delhi-110007. The original certificates will, however, be returned to the candidates immediately after verification but attested copies thereof will be retained alongwith the form. No registration form which is incomplete and not supported by all the required documents will be accepted. Consequent upon the acceptance of their registration forms the candidates will be issued registration slips as a token of their having been registered for provisional admission. These slips will have to be produced at the time of collection of Provisional Admission Slip, if selected for admission. The candidates are, therefore, advised to retain the registration slip carefully. However, the registration will be valid for the current academic session only.

- (v) The office of the Faculty of Mathematical Sciences will prepare Admission Lists for students selected for admission, in accordance with their course requirement laid down by the University. The first admission list will be notified at the Faculty of Mathematical Sciences, New Academic Block, Registration Centre as early as possible. Second and subsequent lists, if necessary, will be notified thereafter.

**\* Subject to change as per the decision of University authorities.**

A copy of each admission list will also be sent to the Principal of each College concerned. Candidates whose names appear in the admission list will be issued provisional admission slips from the office of the Faculty of Mathematical Sciences after notification of first admission list. A candidate after collecting the admission slip will seek admission to the allotted College offering the concerned subject.

### **IMPORTANT INSTRUCTIONS**

Candidates who will be issued provisional admission slips will be required to complete the admission formalities including payment of necessary fees, etc. in a College allotted within three days of the issue of admission slips. The admission slips will be retained by Colleges and the counterfoils returned to the Faculty office, duly signed and rubber stamped by the Principals of respective Colleges after a student has been duly admitted there. The names of those candidates who fail to complete the admission formalities or fail to surrender the admission slip in any College within the stipulated period shall be removed from the admission list without any further reference to them and seats thus vacated will be offered to other candidates in order of merit.

After the College have intimated the number of seats vacant, second and subsequent admission lists of candidates selected for their provisional admission equal to the number of seats vacant each time, will be notified by the Faculty from time to time. The students in their own interest are advised to look up at the Notice Board outside the Faculty office or website: <http://statistics.du.ac.in>. for any notification issued from time to time relating to admission.

### **Lectures, Tutorials & Internal Assessment**

- (1) Alongwith lecture/s, regular tutorial/s are held. Attendance at lectures, practicals and tutorials will be governed according to the existing provisions of the University.

- (2) 25%/30% of total marks in the course will be awarded on internal assessment on a continuous basis-based on tutorial work/class presentation/mid-term examination, or a combination of the same; subject to the modalities worked out by the Department/University. The internal assessment marks will be shown separately in the Mark-sheet issued by the University and these marks shall be added to the annual examination marks for determining the division of the student.

## **5. AGE REQUIREMENTS**

There would be no minimum age bar for post-graduate course under the Faculty of Mathematical Sciences, (EC. Res. No. 120 (7) dt. 27.12.2007).

## **6. PROVISION FOR ADMISSION OF FOREIGN STUDENTS**

5% seats in first year of each course in colleges. Foreign students seeking admission to various courses in the Faculty are required to apply directly to the Foreign student's Advisor, Foreign students registry, C/o Faculty of Management Studies, University of Delhi, Delhi-110007, who will in return, arrange for their admission to various courses in the respective Colleges/ Department of the University.

## **7. PROVISION FOR ADMISSION OF CANDIDATES BELONGING TO SCHEDULED CASTES/SCHEDULED TRIBES /OTHER BACKWARD CLASSES CATEGORIES**

Candidates belonging to these categories and seeking admission to Post-graduate course in the Faculty will also be required to get their names registered along with the general category of students. The registration form, duly filled in and accompanied by all relevant certificates\* (in person only) shall be required to be submitted to the Registration Center, within the prescribed dates for registration.

- \* Degree or the provisional Certificate (in lieu of the original degree of qualifying examination in case where the student has passed an examination in 2014, the year of his/her seeking admission); and

- \* Mark sheets of all parts in case of part-wise Examination Certificates in support of his/her date of birth.
- \* Scheduled caste/Scheduled Tribe/OBC Certificate, in original, together with two attested copies thereto from any of the following Officers:
  1. District Magistrate/Additional District Magistrate/Collector/Deputy Commissioner/Additional Deputy Commissioner/Deputy Collector 1<sup>st</sup> Class Stipendary Magistrate/Assistant Commissioner.  
Or
  2. Chief Presidency Magistrate, Additional Chief Presidency Magistrate, Presidency Magistrate.  
Or
  3. Revenue Officers not below the rank of Tehsildar.  
Or
  4. Sub-Divisional Officers of the area where a candidate and or his/her family normally resides.  
Or
  5. Secretary to Administration/Development Officer (Laccadive and Minicoy Islands.)
- (a) The Original Certificates will be returned to the candidates after verification and the attested copies thereof will be retained.
- (b) Reservation of seats and relaxation in the eligibility requirement to SC/ST/OBC candidates is allowed as per the following University rules:-
  - (i) 15% of the seats for Scheduled Castes and 7.5% seats for Scheduled Tribes (inter-changeable) are reserved subject to the following conditions:-  
  
No seat be reserved for SC/ST in a Post-graduate Course where the number of seats is less than 7. Where the number of seats is more than 6 and less than 13, 15% of seats be reserved for SC candidates (if no SC candidates is available, the seat would go to ST candidate, if available). Where the number of seats exceeds 12, reservation @ 15% and 7.5% for SC and ST candidates (interchangeable) be made respectively.
  - (ii) 27% seats will be reserved for OBC candidates as per University notification.
  - (iii) The minimum eligibility requirement for the Scheduled Caste/Scheduled Tribe candidates will be that they must have passed the qualifying school/degree examination. Provided that the minimum eligibility for admission to Post-graduate Courses be the minimum pass marks of the qualifying examination concerned of the University of Delhi. In the case of scheduled Caste/Scheduled Tribe candidates who have passed the last qualifying examination from other Universities, they should have secured at least the same percentage of pass marks at the qualifying examination as

prescribed for the equivalent examination of the University of Delhi for purpose of admission to the Post-graduate course of this University.

That where the admission is based on screening/written test, both for under-graduate and post-graduate courses, the Scheduled Castes/Tribes candidates would also be required to take the test but their merit list be drawn separately and permitted as per the reservation quota.

- (iv) At the time of giving admission to an OBC candidate, it will be ensured that:
1. Certificate is in the name of the Candidate;
  2. The caste is including in the Central List for OBC;
  3. The certificate mentions non-creamy layer status of the Candidate. It is also to be noted that sons and daughters of persons having gross annual income of Rs. 6 lakhs or above for a period of three consecutive years would fall within the creamy layer and would not be entitled to get the benefit of reservation available to the Other Backward Classes.
- (v) The OBC candidates shall be given a relaxation in the minimum eligibility in the qualifying examination and in the minimum eligibility (if any) in the admission entrance test to the extent of 10% of the minimum eligibility marks prescribed for the General Category candidates. For example, if the minimum eligibility for admission to a course is 50% for the General Category candidates, the minimum eligibility for the OBCs would be 45% i.e. (50% less 10% of 50%).

All those OBC candidates who meet the minimum eligibility marks in the qualifying examination and the minimum eligibility marks (if any) in the entrance test shall be eligible for admission in the order of their merit, keeping in view the availability of seats reserved for them.

#### **8. MODALITIES FOR ADMISSION TO VARIOUS POST GRADUATE COURSES FOR THE PHYSICALLY DISABLED CANDIDATES**

1. Three percent (3%) seats in all post-graduate institutions (including professional and technical institutions) will be reserved for candidates with physical disabilities with not less than 40% disabilities.
2. Reservation will also be applicable to institutions where admission is through Entrance Examinations.
3. Reservation will also be implemented college-wise in the undergraduate course and department-wise in postgraduate course as well as in those undergraduate course where teaching is available only in one Department/College.
4. The persons with disabilities candidates with not less than 40% disability shall be given a relaxation in the minimum eligibility in the qualifying examination and in the minimum eligibility (if any) in the admission entrance test to the extent of 5%.

5. Candidates with physical disabilities who are able to secure admission in the general category will not be counted in the 3% quota for persons with disabilities.
6. The 3% reservation will be allocated as follows: 1% for persons with low vision or blindness; 1% for hearing impaired; 1% for those with loco motor disabilities and/ or cerebral palsy. However, if sufficient candidates are not available in a sub-category then candidates from other sub-categories would be considered.
7. Candidates with more than one type of reservation, this reservation shall cut across the existing reservation of SC/ST; children/widows/wives of officers and men armed forces including paramilitary forces killed/disabled in action or those who died/were disabled on duty etc. in accordance with the principal of inter-locking reservations. In other words, there will be sub-reservations for physically disabled candidates in each reserved category, thus a disabled SC/ST candidate would have preference over an able-bodied SC/ST candidate.
8. Ordinarily the number of seats reserved would be 1 for 33, 2 for 67 and 3 for 100 and so on. However, the colleges may round off the number of reserved seats to next higher level, if the number of calculated seats falls more than halfway between two levels e.g. for 54 seats the number of reserved seats would be 1.62, which may be rounded off to 2 though it may appear to be 4% quota. In essence, the nature of reservation should be enabling in spirit and the institution not feel prevented from exceeding the 3% quota.
9. The Dean Students' Welfare (DSW) will arrange for professional counselling of physically challenged students to enable them to decide about courses keeping in view their aptitude, disability, and future career prospects.
10. All candidates who wish to seek admission to various colleges in under graduate courses where there is no entrance test should register themselves at the Desk for persons with disabilities at the office of the Dean Students' Welfare (Main Campus), New Examination Hall, Near University main Gate. The application form will be available at the Registration desk. The dates and time for availability for submission for form will be the same as that for general category students. Candidates have to register themselves on the prescribed preliminary form along with the Certificate of Physical Disability issued by Chief Medical Officer of a district/Civil Surgeon or any Government Hospital authorized to issue such certificates.
11. In course where, admission is through entrance test, the candidates should fill separate forms prescribed by each Institution/College/Faculty/ Deptt. in duplicate. Both copies should be clearly marked for category of reservation. The Institution/College/ Faculty/Deptt. shall send one copy of the form for registration at the DSW office. However, if the candidates desire, they may submit forms at the office of the DSW which shall arrange to dispatch the forms to college/ department where the candidate wishes to seek admission.

12. Colleges would notify the DSW about dates of tests/interview (where applicable) so these applicants can be informed accordingly. The DSW would notify these dates on the notice board and also post the same on the DU website.
13. In all courses, separate merit lists will be made for disabled candidates under the 3% persons with disabilities quota. All those having 40% and above disability shall be eligible to be considered for drawing up the merit list on the basis of their performance in the qualifying examination/entrance tests.

**Note:** Marks obtained in the qualifying examination being same, priority will be given to candidate whose disability is more severe, e.g. complete loss of vision over partial loss of vision OR loss of a complete limb over loss of a few fingers etc.

14. On request of the Dean Students' Welfare, the CMO WUS Health Centre would constitute a medical board consisting of (a) medical specialists in the concerned field of disability, (b) rehabilitation experts and (c) nominee of the Dean of Faculty having special knowledge about the proposed discipline of study of candidate. The Medical Board shall examine the candidates to determine the extent of disability on a 1 point scale and recommend the point to be added as weightage to the marks scored in the qualifying examination, for the purpose of admission. The Medical Board Chhatra Marg (near Patel Chest Hospital) at the main campus of the University of Delhi and any additional board if required at the WUS Health Centre, South Campus. The Medical Board shall meet within one week of the last date of submission of form/announcement of result of entrance examination as the case may be. The candidates can enquire about the dates of medical examination either at the WUS Health Centre or at the office of the DSW. This information will also be available on the DU website.
15. The Medical Board shall send all data on disability points awarded to each candidate to be displayed at the DSW office. In case of professional, technical and post-graduate courses and where admission is through entrance examination, the recommendation would be sent directly to the Faculty/College with a copy to the DSW.
16. The DSW office would add the disability point to the marks in qualifying examination and allot college/subject based on preference indicated by candidate in the prescribed form.
17. The certificate issued by the Medical Board will be valid for the purpose of admission to any college where a candidate has applied within the prescribed date.
18. No College/Department/Faculty/Institution of the University shall refuse admission to any disabled candidate who is otherwise eligible, subject to mandatory 3% persons with disabilities quota.
19. The candidates shall be offered provisional admissions subject to verification of their medical certificates. The medical certificates submitted by the candidates for admission shall be got verified by the University/College/Department from the concerned issuing authorities.

20. As far as possible all admissions of physically disabled candidates should be completed by the last date prescribed for the general category candidates. However, the Dean of the Faculty/Head of the Department/Principal of college would keep the required number of seats vacant in the College/Department concerned until the recommendation of the Medical Board are received by them and the merit list of the reserved category finalized thereafter.
21. The Delhi University Disabilities Committee strictly monitor the implementation of the provision of the reservation in all constituent or affiliated Colleges/Departments/Institutions of the University of Delhi.
22. Grievance regarding admission under reservation for persons with disabilities should be reported to the Dean Student's Welfare.

9. **PROVISION FOR CHILDREN AND WIDOWS OF ARMED PERSONNEL**

1. 5% of the seats in each course have to be offered to the children/Widows of officers and Men of the Armed Forces including Para-Military personnel, in the following order of preference:
  - (i) Widows/Wards of Defence personnel killed in action;
  - (ii) Wards of serving personnel and ex-servicemen disabled in action;
  - (iii) Widows/Wards of Defence personnel who died in peace time with death attributable to military service;
  - (iv) Wards of Defence personnel disabled in peace time and disability attributable to the military service; and
  - (v) Wards of Ex-servicemen personnel and serving personnel including personnel of police forces who are in receipt of Gallantry Awards.
2. A concession of 5% marks in the minimum eligibility requirements prescribed by the University for admission of general category candidates to various courses will be extended to the candidates. For details, the candidates should refer to the Bulletin of Information of the University for the Academic Year 2014-2015.
3. Category-V (Gallantry Awards) includes: Param Vir Chakra, Ashok Chakra, Sarvottam Yudh Seva Medal, Maha Vir Chakra, Kirti Chakra, Uttam Yudh Seva Medal, Vir Chakra, Shaurya Chakra, Yudh Seva Medal, Sena, Nau Sena, Vayu Sena Medal, Mention-in-espactches, President's Police Medal for Gallantry, Police medal for Gallantry.
4. Incomplete applications shall be rejected without any notice to the candidates.

**Documents to be enclosed**

- (i) Statement of Marks (Class XII)
- (ii) Provisional Certificate (Class XII)
- (iii) Date of Birth Certificate (Class X)
- (iv) Two copies of the Certificates of Educational Concession from any



of the following authorities on the proper letter head (format of the certificate is given below).

- Secretary, Kendriya Sainik Board, Delhi.
- Secretary Rajya/Zila Sainik Board.
- Officer-in-Charge, Record Office.
- 1st Class Stipendiary Magistrate.
- Ministry of Home Affairs (For Police Personnel in receipt of Gallantry Awards).

Produce Original Certificates at the time of Registration.

The copies of the Certificates be attached in the above order.

The Original Certificates to be returned after verification/endorsement at the time of Registration.

### FORMAT

(on the proper letter head)

OFFICE OF THE \_\_\_\_\_

#### EDUCATIONAL CONCESSION CERTIFICATE

This is to certify that Master/Miss \_\_\_\_\_ is son/daughter of \_\_\_\_\_ (No. \_\_\_\_\_) resident of \_\_\_\_\_

The above named officer/JCO/OR \_\_\_\_\_ :-

- Killed in action on \_\_\_\_\_ during \_\_\_\_\_
- Disabled in action on \_\_\_\_\_ during \_\_\_\_\_
- Died in peace time on duty on \_\_\_\_\_ with death attributable to \_\_\_\_\_ military services.
- Disabled in peace time on duty with disability attributable to military service.
- Gallantry Award: \_\_\_\_\_

Master/Miss \_\_\_\_\_ son/daughter of \_\_\_\_\_ Officer/JCO/OR is eligible for educational concession for admission in University of Delhi against the Armed Forces quota under Priority \_\_\_\_\_.

No. : \_\_\_\_\_

Date : \_\_\_\_\_

Signature

Rubber stamp with Name Designation

#### 10. CRITERIA FOR ADMISSION TO POST-GRADUATE COURSE FOR SPORTS/ECA PERSONS.

- Reservation upto 5% of total intake in each course.
- Candidates who have participated in International and the winner of all India Inter-University Championship level be given direct admission.

- (iii) For admission to Post-graduate courses, the best performance of the candidate in sports during the preceding three years be considered as per table given here under.
- (iv) The concerned Department will send a list of candidates who have applied under the Sports Category along with copies of certificates to the DUSC by a date to be decided by the DUSC. The number of seats (course wise) proposed to be filled by the Department on the basis of sports be communicated to the University Sports Council well in advance.
- (v) The DUSC will organize trials for the eligible candidates.
- (vi) Trials would be organized centrally in the University by the University Sports Council. The Director Physical Education, University Sports Council will ensure smooth conduct of the trials under the overall supervision of the Chairman, Sports Council. For this purpose, a notification indicating the schedule of trials of different games will be notified to all the Departments of the University by the Delhi University Sports Council.
- (vii) The weightage for certificates/achievements and trial will be in a ratio of 75% & 25%, respectively.
- (viii) The marks thus obtained will be proportionately added to the marks obtained by the candidate in the entrance test and be included in the common merit. The Department will then make admission as per the merit list.

#### CRITERIA FOR DISTRIBUTION OF MARKS – POST GRADUATE

Category	Level of competition/Tournament	Certificate Issuing Body	Max. Marks 75			
			Position			
			1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	Participation
A.	National Representation at International Level in individual event/Team Event/s in any competition approved by Ministry of Sports/Sports Federation	Ministry of Sports /National Sports Federation/AIU	Direct Admission			
B.	(i) Inter-University winner	Association of Indian Universities	Direct Admission	48	24	12
	(ii) Position and participation in Individual event/Team Event/s in Senior/national Games/Federation Cup Championship/All India Inter-University tournament/Other Tournaments at the National level recognized by various Federation/	National Sports Federation/AIU	60	48	24	12

	Recognized by IOA, subject to the candidate's participated at the Inter-College level.					
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**Note:**

- (i) Candidates eligible for 'Direct Admission' are not required to appear in the Admission Entrance Test.
- (ii) List of all such candidates offered 'Direct Admission' will be sent to the DUSE along with copies of their certificates within 15 days of their admission for verification of authenticity of the certificates.

**11. MISCELLANEOUS**

- (a) Rounding of the fraction of a mark for purposes of admission to any course is not permissible.
- (b) Candidate not fulfilling the eligibility requirement shall not be registered and that no request for any relaxation in the minimum eligibility requirements shall be entertained.
- (c) The admission to M.A./M.Sc./(Part 1)Course in Statistics may be allowed upto 31<sup>st</sup> August 2014 subject to availability of seats in Colleges.

**12. LIST OF COLLEGES, AT A GLANCE, OFFERING STATISTICS POST-GRADUATE COURSE IN THE FACULTY**

**For M.A./M.Sc. Course in Statistics**

	<b>North Delhi Campus</b>	<b>Telephone No.</b>
1.	Hindu College	27667184
2.	Ramjas College	27667706,27667447
	<b>South Delhi Campus</b>	
1.	Lady Shri Ram College (for women)	26434459, 26460400
2.	Sri Venkateswara College	24672196

### **13. SCHOLARSHIPS UNDER ORDINANCE XXVIII**

#### **(i) POST-GRADUATE SCHOLARSHIP (ALL INDIA SCHEME)**

Post-Graduate Scholarships not exceeding twenty in number each of the value of Rs. 250/- p.m., will be awarded each year in the Faculties of Arts, Science, Mathematical Sciences, Social Science, Law, Music and Fine Arts, Management Studies for proceeding to the Degree of M.A./M.Sc./M.Com./ M.B.A./L.L.B./L.L.M. of the University.

#### **Conditions of Award**

1. (a) No Student, receiving any University Scholarship shall accept any other scholarship or financial assistance, other than freeship, from any other source.  
(b) In case a scholar accepts any other scholarship or financial assistance from any other source, the amount received for the University scholarship shall be refunded by him/her to the University from the date he/she accepts any other scholarship or financial assistance.  
(c) If a student becomes entitled to a scholarship on the basis of the result of an examination, but is not awarded or does not accept the scholarship, such scholarship may be reawarded.  
(d) If the last candidate eligible for the scholarship is bracketed with some other candidate(s); all the bracketed candidates will be selected for the scholarship provided their number does not exceed three, if the number of bracketed exceed three, none of them will be selected.
2. The scholarships are open only to persons who have passed the B.A. (Hons.) or B.Sc. (Hons.) or B.Com. (Hons.) or LL.B. (Three Year Course) Examination of a recognised Indian University in the year in which the scholarships are awarded and have obtained a first class in the examination.
3. The scholarships shall be awarded by the Academic Council on the recommendations of the Selection Committee appointed by it.
4. If it should appear at any time that a scholar has failed to take satisfactory progress or has been found guilty of gross misconduct or has been very irregular in attendance, he/she shall after due warning in writing, be reported by the Principal/Head of his College/Department to the Academic Council which may reduce/suspend or withdraw his/her scholarship.

#### **Instructions to the Candidates**

- I. Applications for the award of the Post-Graduate Scholarships should be made in the prescribed form obtainable from the Office of the Registrar.

2. Application should be accompanied by either the original or a certified copy of the Diploma or the Degree Examination passed or a certificate of having passed the said examination.
3. The application should be sent through the Principal of the College or the Vice-Chancellor or the Registrar of the University in which the applicant studied last.
4. The last date for receipt of application would be as notified.
5. Applications should mention the total marks obtained by them in the Hons. Course Examination passed by them and state whether, the Hons. Course is a three years or two years course.
6. These scholarships are not confined to any Faculty or Branch of Study and will be awarded at the discretion of the selection body.

**(ii) SANJEEV KUMAR SINGHAL MEMORIAL SCHOLARSHIPS**

There shall be two Scholarships, known as Sanjeev Kumar singhal Memorial Scholarships, to be awarded, each year to the M.A./M.Sc. Statistics students of this University out of the annual income accruing from the Endowment Fund of Rs. 50,000/- (Fifty thousand only) given by his father Dr. Kanwar Sen, Former Professor, Department of Statistics, Faculty of Mathematical Sciences, University of Delhi, Delhi.

Value of the Scholarship: Rs.250/- per month each.

**Eligibility and Conditions of Award**

1. Out of the two Scholarships, one will be awarded to a candidate who has secured highest percentage of marks in his/her B.A. (Hons.)/B.Sc. (Hons.) Statistics Course of this University. The Scholarship will be for a period of one year.
2. Another Scholarship will be awarded to a candidate who has secured highest percentage of marks in his/her M.A./M.Sc. (Part-I) Statistics Examination of this University for one year, for completing his/her Part-II Course. The Scholarship will be for a period of one year.
3. No student shall be eligible for the award of this scholarship, if he/she
  - (a) already holds a scholarship awarded by the Delhi University or any other University or the Central Government or any State Government or Private Body, other than freeship;
  - (b) accepts any other scholarship/Financial assistance.
4. If it appears at any time during the tenure of the award that the scholar has failed to make satisfactory progress or has been found guilty of gross misconduct or has been irregular in attendance, he/she shall, after due warning, in writing, be reported by the

Principal/Head of the Institution/Department to the Academic Council which may reduce/suspend or withdraw the scholarship.

5. Application for the Scholarship, in the prescribed form obtainable from the office of the Deputy Registrar (Scholarship Cell) should reach the Registrar, University of Delhi, Delhi-110007, through the Head of the Institution/Department concerned by the date mentioned in the notification issued by the Registrar in this behalf.
6. The payment of the scholarship amount shall be made to the scholars through the Head of the Institution/Department from May each year, on presentation of a bill and a certificate to the effect that during the period covered in the bill, the scholar was not in receipt of any other scholarship/financial assistance from any other source.
7. The unutilized amount in any year shall be added to the corpus of the endowment fund.

#### **14. INFORMATION ABOUT RESIDENTIAL ACCOMMODATION**

The University has limited residential accommodation in Colleges and University Hostels. The College provides accommodation to both undergraduate and postgraduate students enrolled in the College. The following Institutions provide hostel accommodation.

##### **For Men:**

1. Hindu College
2. Ramjas College

##### **For Women:**

1. Lady Shri Ram College

Each Institution has its own rules for admission to its hostel. The postgraduate students including (M.Phil and Ph.D.) of different Faculties (in Main and South Campus) except those faculties which have their own hostels, are considered for admission to the following University Hostels.

##### **For Men:**

- |    |                                    |           |
|----|------------------------------------|-----------|
| 1. | Gwyer Hall                         | 100 Seats |
| 2. | Jubilee Hall                       | 200 Seats |
| 3. | P.G. Men's Hostel                  | 100 Seats |
| 4. | Mansarowar Hostel                  | 160 Seats |
| 5. | International Students House (ISH) | 100 Seats |
| 6. | D.S. Kothari Hostel                |           |
| 7. | V.K.R.V. Rao Hostel                |           |
| 8. | Aravali (South Campus)             | 74 Seats  |
| 9. | Saramati (South Campus)            | 130 Seats |

(ISH admits some undergraduate foreign students and has a quota system for different countries and States of India. It does not admit fresh Ph.D. Students.)

**For Women:**

- |  |           |
|--|-----------|
| 1. University Hostel for Women           | 274 Seats |
| 2. Meghdoot Hostel                       | 110 Seats |
| 3. Geetanjali Hostel (South Campus)      | 50 Seats  |
| 4. North East Students' Hostel           |           |
| 5. DSE - LST/ST Student house of Women's |           |

The total residential accommodation in these Hostels is about 660 for male Students and 434 female students. The number of seats available every year is about 160 for male students and 80 for female students. Every Hostel/ Hall has a fixed number of seats for each Faculty.

**15. RULES OF ELIGIBILITY**

The students should satisfy the following eligibility criteria to get themselves registered for hostel accommodation in the University Hostel/ Halls. The applicant for registration for admission to the University Hostels:

1. should be a full-time bonafide post-graduate student of the University of Delhi.
2. should not be enrolled in a part-time or an evening course.
3. should not have his/her parents residing in the Union Territory of Delhi.
4. should not be employed anywhere on full-time or part-time or adhoc basis.
5. should not have availed of Delhi University/College Hostel facility for a course of the same level earlier.
6. should not have completed five years of stay in the University Hostel System.
7. should have passed the examination of the last course attended.
8. should be enrolled in a course which indicates vertical movement.
9. should have secured at least 55% marks in the last course attended on the basis of which registration for hostel accommodation is being sought. (Relaxable in case of students from reserved categories SC/ST/Sports/ Wards of war widows/handicapped/Foreign students and those students of general category who have qualified National Education Test conducted by UGC and CSIR, First Year Students of LL.B. and Master's Course admitted by admission test.)

**16. RESERVATIONS**

The following is the pattern of reservation for candidates of special categories:

- |                    |   |     |
|--------------------|---|-----|
| a. Scheduled Caste | : | 15% |
|--------------------|---|-----|

b.	Scheduled Tribe	:	7.5%
c.	Foreign (Not applicable to ISH)	:	10%
d.	Blind and Physically Handicapped	:	3%
e.	Wards of War Widows/disabled in Army action	:	1 %
f.	Sports (Merit to be decided by the Sports Council of University)	:	1%

## 17. REGISTRATION PROCEDURE

There is a system of Central Registration for all five hostels/halls for men. The application for registration will be accepted only once in a year in the month of August. For research students, a separate schedule may be announced. The students desirous of hostel accommodation should get themselves registered before the last date even if their result of last examination/admission to the course is awaited.

### Note:

1. Admissions are strictly on the basis of merit as decided by each Department provided the applicant satisfies the eligibility criteria.
2. Student already admitted to the University Hostels/Halls for a Master's or LLB Course have to apply as fresh candidate for a higher course after completing the course. Their applications for admission to Hostels/ Halls will be considered on merit alongwith those of fresh candidates if they satisfy eligibility criteria.
3. The reservation are against the vacant seats provided the reserved seats under each category do not exceed the percentage of total number of seats in a hostel.
4. The students admitted in a hostel are not allowed to change hostel before finishing the course for which they are admitted at the time of hostel admission.

However, their names will be entered in the Central Registration List only if they satisfy the eligibility criteria and the results of last examinations are communicated before the cut off date. No forms will be issued or accepted for registration after the last date. The admission to the University Hostels/Halls for male students will be made only from the application for registration, cut off dates and for other details contact:

1. Central Office, Mansarowar Hostel, University of Delhi, Delhi-110007, (For Men Students).
2. (a) Provost, University Hostel for Women, University of Delhi, Delhi-110007, (for Women Students of the Main Campus).  
(b) Provost, Geetanjali Hostel, South Campus, University of Delhi, New Delhi-110021 (for Women Students of South Campus).
3. Students enrolled to the University post-graduate courses through colleges, where hostel facility exists should contact the Principals of the respective colleges.



## **18. GRIEVANCE PROCEDURE**

Complaint against admission list of any hostel should be given in writing to the Provost of the concerned hostel within three days of the display of list. These complaints, if necessary, would be looked into by a Review Committee whose decision will be final and binding.

AC. Resolution No. 53 (16) dated 25-7-1991

### **Right to Information Act, 2005**

An application for obtaining information under the Right to Information Act, 2005 can be made to the Central Public Information Officer.

Shri Jay Chanda,  
Deputy Registrar (Information & PIO)  
New Administrative Block,  
University of Delhi,  
Delhi-110007  
Phone No. 011-27667623  
Fax No. 011-27667524

Ms. Alka Sharma  
Registrar & Appellate Authority,  
Old Vice Regal Lodge,  
University of Delhi,  
Delhi-110007  
Phone No. 011-27667853  
Fax No. 011-27666350

1. The prescribed fee for filling the application is Rs.10/- by way of cash against proper receipt or by way of bank demand draft or banker's cheque or Indian Postal Order payable to the Registrar, University of Delhi at Delhi.
2. An appeal can be preferred before the 1st Appellate Authority against the decision of the Central Public Information Officer.
3. Manuals prepared under Section 4 (1) (b) of the Right to Information Act, 2005 are available on the website of the University <http://www.du.ac.in> and in the office of the Assistant Registrar (Establishment) and Assistant Registrar (Information), New Administrative Block, University of Delhi, Delhi-110007.

## **19. RULES PERTAINING TO THE PROVISIONS FOR IMPROVEMENT OF PERFORMANCE IN CERTAIN COURSES BY THE STUDENT**

- (a) A candidate who appears or fails to appear at the I Semester examination may be allowed to appear in one or more courses of the first semester either alongwith the examination in the courses of the semester at the end of the first year or subject to provisions of Clause 5(b) alongwith the examination in the Courses of the fourth semester at the end of the second year, on his foregoing the earlier performance in writing in the courses concerned in case he had previously appeared in the same.
- (b) Subject to the provisions of Clause 5(b), a candidate who appears or fails to appear at the second semester examination may be allowed to appear/reappear in one or more courses of the second semester alongwith the examination in the courses of the fourth

semester at the end of the second year, on his foregoing the earlier performance in writing in the courses concerned in case he had previously appeared in the same.

- (c) A candidate who appears or fails to appear at the third semester examination may be allowed to appear at the third semester examination may be allowed to appear/reappear in one or more courses of the fourth semester, at the end of the second year, on his foregoing the earlier performance in within in the courses concerned in case he had previously appeared in the same.
- (d) A candidate who qualified for the award of the degree at the end of the fourth semester may be allowed to appear/reappear in one or more courses of fourth semester at the examination to be held in next succeeding year on his foregoing the earlier performance in writing in the courses concerned in case he had appeared in the same; but such a candidate will have to intimate to the University his intention of doing so, within one month of the date of publication of the result of the fourth semester examination. The aforesaid Clauses (a), (b), (c) and (d) shall be subject to the following conditions:
  - (i) No candidate will be allowed to appear in any course more than twice including the examination originally held and no candidate will be allowed to appear in any course beyond four years of his first admission to the M.A./M.Sc. course.
  - (ii) A candidate must choose once only, the courses of a semester, in which he would reappear at an examination. No candidate who has once chosen to reappear in certain courses of a semester will be allowed to reappear in the remaining courses of that semester at a later examination.
  - (iii) A candidate who opts to reappear in certain courses at an examination but is not able to appear in the same will not be deemed to have availed himself of the chance to reappear in the courses concerned at a later examination, if otherwise, eligible.

## **20. TOWARDS THE CULTURAL ENRICHMENT OF EDUCATION**

- 1. To discover, develop, train, and promote socio-cultural talents and interests among the students and staff of the University of Delhi, the Cultural Council, established by the EC vide Resolution 186 of 25 March 1989, has a number of programmes and projects such as:
  - (i) The University Choir
  - (ii) Music club: Western and Indian Folk, Light and Classical genres
  - (iii) Cine club: Film appreciation programmes
  - (iv) Poets Guild, English, Hindi, Urdu, and regional languages
  - (v) Creative Writers Forum
  - (vi) Public speaking Society: Debates, Declamation and Extempore Speech
  - (vii) Art Club fine arts, painting, sketching and cartooning
  - (viii) Federation of Theatre groups

- (ix) Photo Club
  - (x) DU Book Club
  - (xi) Foreign Students Culture Club
  - (xii) Dance Ensemble the Choreographers.
2. The clubs and societies are run by students culture leaders with the guidance and support of staff advisers drawn from the departments and Colleges and under the overall executive control of the Dean Cultural Affairs- DCA.
3. Under Section 10 of the Constitution:  
"Each full-time student in Department/Institution/College of the University shall be required to contribute Rs.5.00 in each academic session".
- a. This contribution of Rs.5.00 a student in a year to be paid to the concerned Department/ Institution alongwith the annual fees at the time of admission/ readmission for session.

4. For further details contact:

Dr. (Ms.) Suchitra Gupta  
Dy. Dean, Cultural and Youth Affairs  
Student's welfare office  
University of Delhi  
Delhi-110007

Prof. J.M. Khurana  
Dean, Students Welfare  
University of Delhi  
Delhi-110007

**21. DEVELOPMENT FEE**

With the University Cashier at the time of issuing admission slip

Additional Resource General Fund Rs. 1500/-  
(ARGF) (Statistics Deptt.)  
(A/c No. SB10851300636)  
**(Non-refundable)**

All the eligible students to be admitted to NDC/SDC will be required to deposit the requisite fee to the concerned college direct.

**Note :**

- (1) The information given in this bulletin shall automatically be changed in case if University authorities decided on such items otherwise or from time to time.
- (2) Disputes if any, arising out of or relating to any matter whatsoever, concerning the process of admission shall be subject to the exclusive jurisdiction of the competent court in Delhi only.
- (3) The OBC status is to be determined on the basis of the Central List of OBCs notified by the Ministry of Social Justice Empowerment ([http://ncbc.nic.in/backward classes/index.htm](http://ncbc.nic.in/backward_classes/index.htm)).
- (4) The registration is valid for the current academic year only.
- (5) As per A.C. Resolution 40 dated 24/4/1997, no student of the University shall be permitted to pursue two degree courses simultaneously either from the University of Delhi or from other University except the part-time diplomas/certificates of the University of Delhi.