

UNIVERSITY OF DELHI

FACULTY OF MATHEMATICAL SCIENCES

BULLETIN OF INFORMATION



For admission to

M.A./M.Sc. Mathematics

2014-2015

For any query regarding admission, contact at 011-27666041

1. COURSES OF STUDY IN MATHEMATICS

The University of Delhi provided facilities for instruction for the M.A./M.Sc. and M.Phil Courses in the following subjects under the Faculty of Mathematical Sciences:

Sl. No.	Courses	No. of seats
1.	M.A./M.Sc. (Part-I) Mathematics	308 North Delhi Campus 62 South Delhi Campus
2.	M.Phil* Mathematics	23 (North Delhi Campus)

*For admission to the Courses, please contact the Department of Mathematics, University of Delhi, Delhi-110007.

2. IMPORTANT DATES

10 th March 2014	:	Online registration start
18 th April 2014	:	Last date for submission of complete Application Form
16 th June 2014	:	Date of Entrance Examination Timings - 2:00 p.m. to 5:00 p.m.
First week of July	:	Date of Declaration of result of Entrance Test
Second/Third week of July	:	Date of Admission List (Subject to declaration of B.A./B.Sc. (Hons.) Maths. Result)

3. GENERAL INFORMATION

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

Mode-I

50% seats shall be earmarked on the basis of merit list drawn in order of preference separately at North Delhi Campus, South Delhi Campus according to conditions in Mode-I in the eligibility condition. Separate applications are to be filled for different campuses.

Mode-II

50% seats for all the campuses shall be filled on the basis of merit in the common Entrance Examination scheduled to be held in June of every academic year through the system of centralized online registration at North Campus according to conditions in Mode-II (see eligibility conditions).

Mode-I

- (i) For Purpose of Registration for M.A/M.Sc. Courses there will be the following two centers:
 - (a) North Delhi Campus (NDC), Room No. 01, New Academic Block, Faculty of Mathematical Sciences, University of Delhi, Delhi-110007.
 - (b) South Delhi Campus (SDC), Benito Juarez Road, New Delhi-110021.
- (ii) Candidates desirous of seeking admission on the basis of merit under Mode-I (in NDC, SDC) to the above Post-graduate courses shall be required to register their names online as per the schedule prescribed for the purpose.
- (iii) Admission at both the Campuses for Mode-I shall be made, independently from amongst the candidates registered online, in order of merit and upto the number of seats available in the Colleges falling within the jurisdiction.

Mode-II (Through Entrance Examination)

- (i) Registration will be done online. The application form for Mode-II in the NDC/SDC and the syllabus for the examination can be downloaded from the website at <http://maths.du.ac.in>. The last date for submission of application form is 18th April 2014 alongwith a payment for Rs. 500/- (General/OBC) and Rs. 250/- (SC/ST/PH) as per eligibility conditions. The bank-draft may be drawn in favour of **Registrar, University of Delhi, Delhi-110007 payable at Delhi** along with a self-addressed envelope of 9"X4" size affixing postage stamp of Rs. 5/-.
- (ii) The office of the Faculty of Mathematical Sciences (North Campus) will prepare admission list for students selected for admission in North Campus. The first admission list will be notified at the New Academic Block, Registration Centre in the second/third week of July 2014. Second and subsequent lists, if necessary, will be notified as early as possible, thereafter.
- (iii) Candidates desirous of seeking admission in SDC shall be required to see the admission list at the respective Registration Center.

A copy of each admission list will also be sent to the Principal of each College concerned. Candidates whose names appear on the admission list (NDC) 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 and attached to the North Delhi Campus.

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 Colleges 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 (Mode-I and Mode-II).

After the colleges have intimated the number of seats vacant, second and sub-sequent 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://maths.du.ac.in> for any notification issued from time to time relating to admission.

4. ELIGIBILITY CONDITIONS FOR ADMISSION TO M.A./M.Sc. COURSE IN MATHEMATICS

There will be two modes of admission:

1. Direct Admission
2. Through an Entrance Test

Mode-I: 50% seats in the M.A./M.Sc. Mathematics shall be filled on the basis of a merit list drawn in order of merit amongst candidates who have passed B.A. (Hons)/B.Sc. (Hons) Examination in Mathematics of Delhi University 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 by July 10).

Applicants should have graduated under 10+2+3 scheme or any Equivalent Scheme are eligible for applying admission.

Mode-II: The remaining 50% seats will be filled on the basis of merit in an entrance examination. Any candidate who has obtained bachelor 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 Mathematics securing at least 50% marks in aggregate will be eligible to appear in entrance examination.

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 fulfils the other requirements of admission.

Note: If a student qualifies for admission through both Modes, he/she will be granted admission through Mode-I. If any seat remain vacant against direct admission category due to non-availability of eligible candidates, the same shall be transferred and filled through admission entrance test.

Number of seats available

			<u>NDC (308)</u>	<u>SDC (62)</u>
General Category	Mode-I	-	78	16
	Mode-II	-	77	15
OBC Category	Mode-I	-	42	8
	Mode-II	-	42	8
SC Category	Mode-I	-	23	4
	Mode-II	-	23	4
ST Category	Mode-I	-	12	4
	Mode-II	-	11	3
Supernumery Seats				
PW	Mode-I	-	04	1
	Mode-II	-	05	1
Sports/ECA	Mode-I	-	upto 07 (upto 5%)	2
	Mode-II	-	upto 08 (upto 5%)	1
CW	Mode-I	-	07	2
	Mode-II	-	08	1
Foreign Student			15	

Modalities:

1. Under Mode-I, the minimum requirement for SC/ST candidates will be 40% marks in B.A.(Hons)/B.Sc. (Hons) Examination in Mathematics in each of the above categories.
2. The entrance examination shall be of three hours duration. The question paper shall be of 250 marks. The paper will consist of two parts. Part-I will be containing 50 Multiple Choice Questions having exactly one correct answer. For each correct answer 3 marks will be given and for an incorrect answer 1 marks will be deducted. Part-II will consist of 20 Multiple Choice Questions. Each question will have multiple correct answers and will carry 5 marks. 5 marks will be given only if all correct choices are marked. There will be no negative marking in this part.
3. The fee of the registration would be Rs. 500/- for students of General/OBC category and Rs. 250/- for students belonging to SC/ST/PH categories payable by a bank draft drawn in favour of the **Registrar, University of Delhi, Delhi-110007 payable at Delhi** or on-line gateway payment

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.).

4. SYLLABUS FOR ENTRANCE EXAMINATION FOR M.A./M.Sc. MATHEMATICS

- Elementary set theory, Finite, countable and uncountable sets, Real number system as a complete ordered field, Archimedean property, supremum, infimum.
- Sequence and series, Covergence limsup, liminf.
- Bolzano Weierstrass theorem, Heine Borel theorem.
- Continuity, Uniform continuity, Intermediate value theorem, Differentiability, Mean value theorem, Maclaurin's theorem and series, Taylor's series.
- Sequences and series of functions, Uniform convergence.
- Riemann sums and Riemann integral, Improper integrals.
- Monotonic functions, Types of discontinuity.
- Functions of several variables, Directional derivative, Partial derivative.
- Metric spaces, Completeness, Total boundedness, Separability, Compactness, Connectedness.

- Eigenvalues and eigenvectors of matrices, Cayley-Hamilton theorem.
- Divisibility in \mathbb{Z} , congruences, Chinese remainder theorem, Euler's ϕ - function.
- Groups, Subgroups, Normal subgroups, Quotient groups, Homomorphisms, Cyclic groups, Cayley's theorem, Class equations, Sylow theorems.

- Rings, fields, Ideals, Prime and Maximal ideals, Quotient rings, Unique factorization domain, Principal ideal domain, Euclidean domain, Polynomial rings and irreducibility criteria.
- Vector spaces, Subspaces, Linear dependence, Basis, Dimension, Algebra of linear transformations, Matrix representation of linear transformations, Change of basis, Inner product spaces, Orthonormal basis.
- Existence and Uniqueness of solutions of initial value problems for first order ordinary differential equations, singular solutions of first order ordinary differential equations, System of first order ordinary differential equations, General theory of homogeneous and non-homogeneous linear ordinary differential equations, Variation of parameters, Sturm Liouville boundary value problem, Green's function.
- Lagrange and Charpit methods for solving first order PDEs, Cauchy problem for first order PDEs, Classification of second order PDEs, General solution of higher order PDEs with constant coefficients, Method of separation of variables for Laplace. Heat and Wave equation.
- Numerical solutions of algebraic equation, Method of iteration and Newton-Raphson method, Rate of convergence, Solution of systems of linear algebraic equations using Gauss elimination and Gauss-Seidel method, Finite differences, Lagrange, Hermite and Spline interpolation, Numerical integration, Numerical solutions of ODEs using Picard, Euler, modified Euler and second order Runge-Kutta methods.

NOTE : The candidates will be eligible for admission only after the result of the qualifying examination has been declared and the candidates meet the minimum eligibility criteria. Thus the candidates who are though eligible for admission on the basis of the admission entrance test but they do not have the results of their qualifying degree examinations shall not be allowed provisional admission in the subsequent admission lists, as and when the results of the qualifying examinations are declared provided the candidates submit the result to the concerned department/faculty.

5. **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.

6. **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 student. 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 date 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 2013 the year of his/her seeking admission); and
 - Mark sheet 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 1st 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.
 5. Secretary to Administration/Development Officer (Laccadive and Minicoy Island).
- (a) The Original Certificates will be returned to the candidates after verification attested copies thereof will be retained.
- (b) Reservation of seats and relaxation in the eligibility requirement to SC/ST candidates is allowed as per the following University rules:
- (i) 15% of seats for Scheduled Castes and 7.5% seats for Scheduled Tribe (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 are 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 qualifying examination as prescribed for the equivalent examination of Delhi University 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) 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.

- (v) Certificate is in the name of the Candidates.
- (vi) The caste is including in the Central List for OBC.
- (vii) The certificate mentions non-creamy layer status of the Candidates;
- (viii) If the seats reserved for the OBCs remain vacant, the said seats shall be filled with the OBC students. Only if OBC candidates possessing the minimum eligibility marks are not available in the OBC category then the vacant OBC seats shall be converted into General Category seats in accordance with the admission scheduled notified by the University.

7. MODILITIES FOR ADMISSION TO VARIOUS POST GRADUATE COURSES FOR THE PHYSICALLY DISABLED CANDIDATES

- 1) Three percent (3%) seats in all post-graduate institution (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 institution 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 candidates with disabilities candidates with not less than 40% disabilities 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 be extent of 5%.
- 5) Candidates with physical disabilities who are able to secure admission in general category will not be counted in the 3% quota for person 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 should 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 principle 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) If sufficient number of the candidates are not available under the reserved categories then their seats may be filled with general category candidates.
- 9) 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.
- 10) 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.
- 11) 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). 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.
- 12) In courses 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 wish to seek admission.

- 13) Colleges would notify the DSW about dates of tests/interview (where applicable) so that 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.
- 14) 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. .

- 15) 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 discipline of study of candidate. The Medical Board shall examine the candidate 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.
- 16) 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.
- 17) 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.
- 18) 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.
- 19) 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.
- 20) 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.
- 21) As far as possible all admission 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.

- 22) The Delhi University Disabilities Committee strictly monitor the implementation of the provision of the reservation in all constituent or affiliated College/Department/Institutions of the University of Delhi.
- 23) Grievance regarding admission under reservation for persons with disabilities should be reported to the Dean Student's Welfare.

8. 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
 - (iv) 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 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 2013-2014.
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 Gallantrym 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) (ii) Provisional Certificate (Class XII)
- (iii) (iii)Date of Birth Certificate (ClassX)
- (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 RajyalZila Sainik Board.
- Officer-in-Charge, Record Office
- Ist 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 _____ :-

- (i) Killed in action on _____ during _____
- (ii) Disabled in action on _____ during _____
- (iii) Died in peace time on duty on with death attributable to _____ military services.
- (iv) Disabled in peace time on duty with disability attributable to military service.
- (v) 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

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

- (i) Reservation upto 5% of total intake in each course.
- (ii) 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 st	2 nd	3 rd	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	National Sports Federation/AIU				

	Games/Federation Cup Championship/All India Inter-University tournament/Other Tournaments at the National level recognized by various Federation/ Recognized by IOA, subject to the candidate' participated at the Inter-College level.		60	48	24	12
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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 candidate/s offered 'Direct Admission' will be sent to the DUSE along with copies of their certificates within 15days of their admission for verification of authenticity of the certificates.

10. 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 Mathematics may be allowed upto 31st August 20 14 subject to available of seats in Colleges.

11. LIST OF COLLEGES, AT A GLANCE, OFFERING MATHEMATICS POST-GRADUATE COURSE IN THE FACULTY

North Delhi Campus	Telephone No.
1. Hans Raj College	27667747,27667458
2. Hindu College	27667184
3. Indraprastha College (W)	23954085,23962009
4. Janki Devi Memorial College (W)	25787754
5. Kirori Mal College	27667939,27667861
6. Miranda House (W)	27667367
7. Ramjas College	27667706,27667447
8. S.G. T.B. Khalsa College	27667469,27666220
9. St. Stephen's College	27667271,27667200
10. Zakir Hussain College	23232218,23233420
11. Non-Collegiate Women's Education Board	27667725

South Delhi Campus

1.	Acharya Narendra Dev College	26412547,26294542
2.	Dayal Singh College	24367819
3.	Deshbandhu College	26439565,26430192
4.	Lady Shri Ram College(W)	26434459,26460400
5.	Maitreyi College	24673815
6.	P.G.D.A.V. College (Morning)	2612092,26315214
7.	Sri Venkateswara College	24672196

12. 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 Science, 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 freship, 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 re-awarded.
 - (d) If the last candidate eligible for the scholarship is bracketed with some other candidate(s); all the bracketed candidate 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 scholarship 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 of the Academic Council which may reduce suspend or withdraw his/her scholarship.

Instructions to the Candidates

1. 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 scholarship are not confined to any Faculty or Branch of Study and will be awarded at the discretion of the selection body.

(iii) 51. S. C. MALIK MEMORIAL SCHOLARSHIP

- (1) There shall be a Scholarship called 'S.C. Malik Memorial Scholarship' of the value of Rs. 100/- per month payable out of the interest on the funds amounting to Rs. 12,000/- endowed by Mrs. Shanta Malik, F -2/27, Model Town, Delhi.
- (2) The scholarship shall be awarded to a meritorious student of M.A.! M.Sc. part-II in Mathematics who secures the highest percentage of marks in the last examination M.A./M.Sc. (part-I) Mathematics in this University.
- (3) The Scholarship shall be tenable for a period of one year only.
- (4) (a) No student shall be eligible for the award of this scholarship if he or she already possesses a scholarship awarded by the University of Delhi or any other University or the Central Government or any State of India or a Private Body other than a Freeship.
(b) In case a scholar under this endowment any other scholarship or gets financial aids from any other source, he/she shall be required to refund the amount received by him/her on this account from the date he/she was awarded any other scholarship or gets financial aid.
- (5) If it should appear 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 of his/her College to the Academic Council which may reduced! suspend or withdraw the scholarship ..

- (6) The payment of the scholarship amount shall be made to the scholar through the Principal of his/her College on presentation of a bill and a Certificate to the effect that during the period covered in the bill, the awardee was not in receipt of any other scholarship/financial assistance from any other source.

(iv) 62. Dr. Y.K. MEHTA MEMORIAL SCHOLARSHIP

- (1) There shall be a scholarship called Dr. Y K. Mehta Memoria scholarship of the value of the Rs. 200/- p.m. payable out of the interest on the fund amounting to Rs. 20,000/- endowed by Shri J.P. Pruthi, Department of Mathematics, Hans Raj College, to perpetuate the memory of late Dr. Y.K. Mehta, who was formerly a Reader in the Department of Mathematics, University of Delhi, Defhi-7.
- (2) The scholarship shall be awarded to a student of M.A./M.Sc. Part-II Maths. Class in the University of Delhi, who secures the highest percentage of marks at the M.A./M.Sc. Part -I Examination in the first attempt in the preceding year. In case the student securing the highest marks in the M.A./M.Sc. Part-I Mathematics Examination as above is in receipt of any other scholarship as provided hereafter, the scholarship will be awarded to the next eligible candidate satisfying the above conditions.
- (3) The Scholarship shall be tenable for 12 months only from 1st May of a year to 30th April, of the next year.
- (4) No student shall be eligible for the award of this scholarship if he or she is already in receipt of a Scholarship awarded by the University of Delhi or any other University or the Central Government or any State Government or a Private Body other than a freship.
- (5) In case the awardee under this endowment is awarded any other scholarship or gets financial aid from any other source, he/she shall be required to refund the amount received by him/her on this account from the date he/she was awarded any other scholarship or financial aid.
- (6) In case scholarship discontinues studies without valid reasons, he/she shall be required to refund the amount received by him/her on account of the scholarship.
- (7) The payment of the scholarship amount shall be made to the scholar through the Head of the Department of Mathematics or the Principal of his/her College, as the case may be, on presentation of a bill and a certificate to the effect that during the period covered in the bill the awardee was not in receipt of any other scholarship/financial aid from any other source.
- (8) Any amount accruing as interest from the endowment and not spent shall be added to the corpus of the endowment fund.

(v) 74. THE 55TH INDIAN MATHEMATICS SOCIETY ANNUAL CONFERENCE SCHOLARSHIP

There shall be three Scholarships known as 55th Indian Mathematical Society Annual Conference Scholarship (in brief 'The 55th IMS Annual Conference Scholarship') value of Rs. 250/- per month each to be awarded to three M. A./M.Sc. Mathematics students of this University out of the annual income accruing from the endowment fund of Rs. 75,000/- (Seventy Five Thousand only) given by Prof. G.C. Ahuja Local Secretary of the Conference and Dean, Faculty of Mathematical Sciences, University of Delhi, Delhi-110007.

Eligibility and Conditions of Award

- (1) Out of three Scholarships one will be awarded to the candidate who has secured highest percentage of marks in his/her B.A. (Hons.)/ B.Sc. (Hons.) examination of this University and taken admission in the M.A. Part-I/M.Sc. Part-I, Mathematics of this University. The Scholarship will be for a period of two years subject to the condition that the awardee secures 60% marks in M.A./M.Sc.-Part-I examination.
- (2) One Scholarship will be awarded to the candidate who has secured highest percentage of marks in his/her M.A./M.Sc. Part-I Mathematics examination of this University for one year for completion of 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;
 - (a) In case the student already holds a scholarship awarded by the Delhi University or any other University or the Central Government, or any State Government of Private Body, other than freeship.
 - (b) In case any scholar accepts any other scholarship/financial assistance.
- (4) If it should appear 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) The Scholarship shall be awarded by the Committee consisting of:
 - (i) Head of the Department of Mathematics, University of Delhi.
 - (ii) Two of the Professors in the Department of Mathematics of the University, in order of seniority.
- (6) Application for the scholarship, in the prescribed form obtainable from the office of the Registrar (Scholarship Ceil), 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.

- (7) The payment of the scholarship amount shall be made to the scholar through the Head of the Institution/Department from May each year on presentation of a bi J I 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.
- (8) The unutilized amount in any year shall be added to the corpus of the endowment fund.

13. ENDOWMENT FUND IN THE MEMORY OF LATE DR. Y.K.MEHTA

- A. Shri YK. Mehta, vide his letter dated 20th April, 1990, proposed to institute an Endowment in memory of his younger brother, late Dr. YK. Mehta, formerly Reader in the Department of Mathematics. He proposed for students of Mathematics and Computer Science subjects at
- B.
- C. Post-Graduate and M.Phil Ph.D. levels. He further desired that:
1. Out of this amount of donation to start with, research journals and books on Mathematics and Computer Science of the above said level may be purchased for 20,000/-and the balance may be kept in a fixed deposit with some scheduled bank.
 2. Thereafter, every year, books on these two subjects may be purchased out of the interest earned on t8,10,000/-.
 3. All selection of books may be purchased/may be made by a panel of senior Professors of Mathematics and Computer Science.
 4. All these books may be kept in a separate corner in the University Library which may be allotted by the University for the purpose and may be named after Dr. Y.K. Mehta.

The proposal was examined by the University Librarian and observed that such type of compartmentalisation was not done in libraries and that, at best, a printed slip could be pasted on the books purchased out of the Endowment Fund commemorating the memory of Dr. YK. Mehta. The Head of the Department of Mathematics, vide his letter No. M-90/81/58 dated the 21 st September, 1990, informed that the matter had been considered by the Departmental Council and that it Was decided to accept.

- A. The proposal of Sh. YK. Mehta as modified by the University Librarian Sh. Y.K. Metha was informed accordingly.
- B. Shri YK. Mehta has since accepted the modified proposal and has remitted a sum of Rs. 1,00,000/-.
- C. To start with books Walth Rs. 20.000/- shall be purchased and the balance amount will be invested with a Public Undertaking. Approximately a sum of 10,000/- per annum wi11 be earned by way of interest every year, The amount of interest earned will also be utilised for purchase of books.

- D. The slips to be pasted on the books may also be got printed out of the funds of the Endowment.

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. St. Stephen's College
2. Hindu College
3. Hans Raj College
4. KM. College
5. Ramjas College
6. Sri Ram College of Commerce
7. Zakir Hussain College

For Women:

1. Miranda House
2. Daulat Ram College
3. Indraprastha College for Women
4. 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's

- | | | |
|----|------------------------------------|-----------|
| 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 year 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 student 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)		

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 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 of the date. No forms will be issued or accepted for registration at 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-I I 0007, (For Men Students).
- (2-a) Provost, University Hostel for Women, University of Delhi, Delhi-I 10007, (for Women Students of the Main Campus).

- (2-b) Provost, Geetanjali Hostel, South Campus? University of Delhi; New Delhi (for Women Students of South Campus) ..
22. 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 looking into by a Review Committee whose decision will be final and binding.

AC. Resolution No. 53 (16) dated 25"7-91

Right to Information Act, 2005

Shri Jay Chanda,
Deputy Registrar (Information PIO)
New Administrative Block,
University of Delhi,
Delhi-II 0007
Phone No. 011-27667623
Fax No. 01 1-27667524

Ms. Alka Sharma
Registrar Appellate Authority,
Old Vice Regal Lodge,
University of Delhi,
Delhi-II 0007
Phone No. 011-27667853
Fax No. 011-27666350

1. An application for obtaining information under the Right to Information Act, 2005 can be made to the Central Public Information Officer.
2. The prescribed fee for filling the application is 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.
3. An appeal can be preferred before the 1st Appellate Authority against the decision of the Central Public Information Officer.
4. Manuals prepared under Section 4 (I) (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-I10007.

Lectures, Tutorials & Internal Assessment

- (1) Lecture/s, regular tutorials are held. Attendance at lectures, practicals and tutorials will be governed according to the existing provisions of the University.
- (2) 30% of total marks in the course will be awarded on internal assessment on a continuous basis; based on tutorial work/class presentation/midterm 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

marks-sheet issued by the University and these marks shall be added to the annual examination marks for determining the division of the student.

**19. Promotion rules for the M.A/M.Sc. Mathematics Course under the Semester Scheme.
Pass Percentage Promotion Criteria**

- (a) The minimum marks required to pass any paper in a semester shall be 40% in theory and 40% in Practical, wherever applicable. The student must secure 40% in the End Semester Examination and 40% in the total of End Semester Examination Internal Assessment of the paper for both theory practical separately.
- (b) No student will be detained in I or III Semester on the basis of his/her performance in I or III Semester examination; i.e. the student will be promoted automatically from I to II and III to IV Semester.
- (c) A student shall be eligible for promotion from 1st year to 2nd year of the course provided he/she has passed 50% papers of I and II Semester taken together. However, he/she have to clear the remaining paper is while studying in the 2nd year of the programme.
- (d) Students who do not fulfill the promotion criteria (c) above shall be declared fail in the Part concerned. However, they shall have the option to retain the marks in the papers in which they have secured Pass marks as per Clause (a) above.
- (e) A student who has to reappear in a paper prescribed for Semester II III may do so only in the odd Semester examinations to be held in November/December. A student who has to reappear in a paper prescribed for Semester IIIIV may do so only in the even Semester examinations to be held in April/May.

Reappearance in passed papers :

- (a) A student may reappear in any theory paper prescribed for a semester, on foregoing in writing her/his previous performance in the paper/s concerned. This can be done once only in the immediate subsequent semester examination only (for example, a student reappearing in a paper prescribed for Semester I examination, may do so along with the immediate next Semester III examinations only).
- (b) A candidate who has cleared the papers of Part II (III IV Semesters) may reappear in any paper of I or IV Semester only once, at the immediate subsequent examination on foregoing in writing her/his previous performance in the paper/s concerned, within the prescribed span period.

(Note: The candidate of this category will not be eligible to join any higher course of study).

- (c) In the case of reappearance in a paper, the result will be prepared on the basis of candidate's current performance in the examination.

- (d) In the case of a candidate, who opts to re-appear in any paper/s under the aforesaid provisions, on surrendering her/his earlier performance but fails to reappear in the paper is concerned, the marks previously secured by the candidate in the paper in which she/he has failed to re-appear shall be taken into account while determining her/his result of the examination held currently.
- (e) Reappearance in Practical examinations, dissertation, project and field work shall not be allowed.
- (f) A student who reappears in a paper shall carry forward the internal assessment marks, originally awarded.

Division Criteria:

A student who passes all the papers prescribed for Semester I & II examinations would be eligible for the degree. Such a student shall be categorized on the basis of the combined result of Semester I & II Semesters examinations as follows:-

60% or more	First Division
50% or more but less than 60%	Second Division
40% or more but less than 50%	Third Division

20. TOWARDS THE CULTURAL ENRICHMENT OF EDUCATION

1. To discover, develop, train, and promote sociocultural 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 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
 - (vi) Poets Guide, English, Hindi, Urdu, and regional languages.
 - (vii) Creative Writers Forum
 - (viii) Public speaking Society: Debates, Declaration and Extempore Speech
 - (ix) Art Club fine arts, painting, sketching and cartooning
 - (x) 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.

