

# UNIVERSITY OF DELHI

No. CNC-II/093/2014  
Delhi, the 14<sup>th</sup> November, 2014

## NOTIFICATION

### Sub: Amendments to Ordinances

The following Amendments to the Ordinances and Appendices to the Ordinances of the University passed by the Executive Council at its meeting held on 19<sup>th</sup> July, 2014 are notified for information of all concerned:

1. **Amendments to Ordinance II, Appendix II to Ordinance V(2) and VII, and to all other relevant Ordinances of the University, relating to the admission, revision of syllabi/scheme of examinations for LL.B. degree.(Page No. 270 & 325 of the University Calendar Volume I (2004) and 298 of University Calendar Volume II (1989)) (E.C. 19.7.2014).**

**I. Add the following Clause 12 to the Guidelines to the Ordinance II:**

**(12) Eligibility for admission:**

- (i) **Three Year Law Degree Course:** An applicant who has graduated in any discipline of knowledge from a University established by an Act of Parliament or by a State legislature or an equivalent national institution recognized as a deemed to be University or foreign University recognized as equivalent to the status of an Indian University by an authority competent to declare equivalence, may apply for a three years' degree programme in law leading to conferment of LL.B. degree on successful completion of the regular programme conducted by a University whose degree in law is recognized by the Bar Council of India for the purpose of enrolment.
- (ii) **Minimum marks in qualifying examination for admission.**

The eligibility criteria for admission to LL.B. Degree course is as follows:-

- (i) For General candidates, Graduate/Post-Graduate Degree from the University of Delhi or any other Indian or Foreign University recognized as equivalent by the University of Delhi with at least 50% marks or an equivalent grade point in the aggregate in either of them.
- (ii) For other backward classes (OBC) candidates, Graduate/Post-Graduate Degree from the University of Delhi or any other Indian or Foreign University recognized as equivalent by the University of Delhi with at least 45% marks.



- (iii) For Scheduled Caste/Scheduled Tribe (SC/ST) candidates, a Graduate/Post-Graduate Degree from the University of Delhi or any other Indian or Foreign University recognized as equivalent by the University of Delhi with at least 40% marks. (As per Bar Council of India requirements).
- (iv) Relaxation of 5% marks in the minimum eligibility prescribed for general candidates will be allowed to widows/wards of ex-servicemen/serving personnel (CW) category.
- (v) Relaxation of up to 5% marks in the minimum eligibility prescribed for general candidates will be allowed to the candidates belonging to physically handicapped (PH) category on the recommendations of the Medical Board as per the prescribed procedure.

Provided that such a minimum qualifying marks shall not automatically entitle a person to get admission into an institution but only shall entitle the person concerned to fulfill other institutional criteria notified by the institution concerned or by the government concerned from time to time to apply for admission.

**II. Replace the existing Clause 8 (a) of the Ordinance VII.2 of the Ordinances of the University with the following:**

8(a) From the academic year 2014-2015, all the students of LL.B. shall have to put in minimum attendance of 70% of the lectures in each of the courses as also at the moot courts, tutorials and practical training course conducted or taught in a semester for taking the examination.

Provided that if a student for any exceptional reasons fails to attend 70% of the classes held in any subject or training course, the Dean of the Faculty of Law, may allow the student to take the Examination for the semester if the student concerned attended at least 65% of the classes held in the subject concerned and attended 70% of classes in all the subjects taken together in all the courses of the semester.

Provided further the Dean, Faculty of Law or a committee constituted by the Dean in this regard may relax absence from classes (of fifteen days in one semester and a maximum of twenty days in an academic year) for participating in recognized moot court competitions, seminars and conferences, legal aid camps and activities, sensitization programmes, permitted and approved internships, training programmes relevant to legal education, permitted attendance in court and for unforeseen circumstances.

The Dean of the Faculty or Professor-in-Charge of the Law Centre shall have power to strike off the name of a student who is grossly irregular in attendance in spite of warning, or, when the absence of student is for such a long period that he/she cannot put in requisite percentage of attendance for the semester.

*Note: For the students already enrolled in any of the Centres or Faculty of Law before 2014-15 the present rules in clause 8 as prior to this amendment shall continue to govern their cases.*



**III. Amendment to Appendix II to Ordinance V(2) relating to the LL.B. course in the Faculty of Law.**

1. The Course for the Degree of Bachelor of Laws shall extend over a period of 3 academic years (i.e. six terms in all).
2. The medium of instruction shall be English. The medium of examination shall be English or Hindi.
3. Instruction shall also include Seminars, Tutorial Work, Moot Courts and Practical Training Programmes.
4. There shall be one examination at the end of each term, the academic year being divided into two terms as may be approved by the Academic Council from time to time. There shall be six terms in all.
5. The examination shall consist of one written examination at the end of each term in the courses prescribed. One paper shall be set in each of the courses prescribed for study, and the examination in a paper shall be of three hours' duration. All courses will have equal weightage.

*Note: The amendment to the courses of study is to comply with the relevant rules of the Bar Council of India. The following shall be the subjects and courses of study for the examinations with effect from Academic Year 2014-15.*

*The syllabi of the papers already approved for the First Year under the existing courses shall be continue to be applicable for the papers in the First Year of the new course. The Faculty of Law shall seek approval of the syllabi for the additional papers prescribed in the Second and Third Years.*

*For the candidates admitted prior to Academic Year 2014-15, the existing course structure as applicable in II and III year will continue to apply.*

**LL.B. I Term Examinations:**

**Compulsory Subjects:**

- LB 101: Jurisprudence-I (Legal method, Indian Legal System, and Basic Theory of Law). *Equivalent to LB 101 Elements of Indian Legal System combined with LB-502.*
- LB 102: Principles of Contract (General Principles). *Equivalent to LB 102.*
- LB 103: Law of Torts (Nature, General Principles, General Defences, specific Torts, Motor Vehicle Accidents and Consumer Protection Laws). *Equivalent to LB 103.*
- LB 104: Law of Crimes: Indian Penal Code (Specific offences and General Principles). *Equivalent to LB 104 and expended.*
- Paper105: Family Law-I (Hindu Law of Marriage, Adoption & Maintenance, Minority and Guardianship, Muslim Law of Marriage, Divorce and Dowry & Acknowledgement of Paternity, Wakfs and Endowments). *Equivalent to LB 105.*

**LL.B. II Term:**

**Compulsory Subjects:**

Paper 201- Evidence Law (Law of Evidence in India). *Equivalent to LB 201.*

Paper 202- Family Law II (Hindu Law of Joint Family, Partition and Debts, Gifts Wills, Hindu Succession Act and Muslim -General Principles of Inheritance). *Equivalent to LB 202.*

Paper 203- Law of Crimes-II: Criminal Procedure Code (General Principles). *Equivalent to LB 203.*

Paper 204- Property Law. *Equivalent to LB 204.*

Paper 205- Public International Law. *Equivalent to LB 205.*

**LL.B. III Term:**

**Compulsory Subjects:**

Paper 301 - Constitutional Law I

Paper 302 - Code of Civil Procedure and Limitation Act

Paper 303 - Company Law

Paper 304 - Special Contracts (Partnership, sale of Goods)

**Optional Subjects (Opt any *One* of the following)**

Paper 3031 - Media Law and Censorship (incl, Self-Regulation)

Paper 3032 - Private International Law

Paper 3033 - Legal Philosophy including theory of justice

Paper 3034 - Law of Crimes-III (Socio-Economic offences etc.)

**LL.B. IV Term:**

**Compulsory Subjects:**

Paper 401 - Constitutional Law II

Paper 402 - Administrative Law

Paper 403 - Labour Law

Paper 404 - Intellectual Property Rights Law-I

**Optional Subjects (Opt any *One* of the following)**

Paper 4031 - Gender Justice & Feminist Jurisprudence

Paper 4032 - International Institutions

Paper 4033 - Competition Law

Paper 4034 - Legislative Drafting

Paper 4035 - Humanitarian and Refugee Law



**LL.B. V Term:**

**Compulsory Subjects:**

- Paper 501 - Arbitration, Conciliation & Negotiation (including their International aspects and principles of private International law)  
Paper 502 - Drafting, Pleading and Conveyance  
Paper 503 - Industrial Law (including IDRA,)  
Paper 504 - Intellectual Property Rights Law-II

**Optional Subjects: (Opt any *two* of the following)**

- Paper 5031 - Information Technology Law  
Paper 5032 - Jurisprudence-II  
Paper 5033 - Criminology  
Paper 5034 - International Trade Law  
Paper 5035 - Rent Control and Slum Clearance  
Paper 5036 - Business Regulations

**LL.B. VI Term:**

**Compulsory Subjects:**

- Paper 601- Advocacy, Ethics & Professional Accounting (incl. System)  
Paper 602 - Moot Court exercise and Internship (incl. Interviewing techniques & Pre- trial preparations).  
Paper 603 - Environmental Law  
Paper 604 - Taxation Law

**Optional Subjects (Opt any *two* of the following)**

- Paper 6031 - Interpretation of Statutes  
Paper 6032 - Insurance and Banking Law  
Paper 6033 - Election Laws  
Paper 6034 - Minor Acts and Supreme Court Rules  
Paper 6035 - Law of Carriage

**Promotion Rules applicable to the LL.B. course in the Faculty of Law**

- (i) No student shall be promoted to the next Term, if he/she has been detained in the examination for shortage of attendance.
- (ii) Subject to sub-rule (i) above, a student of LL.B. First, Third or Fifth Term shall be eligible for promotion to Second, Fourth or Sixth Term, respectively irrespective of the number of courses in which he/she has failed to pass or failed to appear in the First, Third or Fifth Term examinations.
- (iii) Subject to sub-rules (i) and (ii) above, a student of LL.B. Second Term shall be eligible for promotion to Third Term if he/she has passed in at least five papers of First and Second Term examinations taken together and a student of Fourth Term shall be eligible

for promotion to Fifth Term if he/she has passed in at least fifteen papers of First, Second, Third and Fourth Term examinations taken together.

*Note: -The students eligible for admission to III/V Term must seek admission not later than two weeks from the date(s) of announcement of the results of LL.B. II/IV Term Annual Examinations or within one week of commencement of teaching, whichever is later, failing which they will forfeit their right to be admitted to III/V Term in the particular year.*

### **Re-admission Rules**

- (i) There shall be no re-admission in the LL.B. First Term under any circumstances including detention for shortage of attendance in that Term.
- (ii) A student who has been detained for shortage of attendance or for applying late for admission in Second, Third, Fourth, Fifth or Sixth Term shall be eligible for re-admission in the same Term in which he/she had been detained provided (a) he/she seeks readmission before commencement of teaching in the relevant Term; (b) his/her conduct has been satisfactory; and (c) he/she shows sufficient cause for his/her discontinuance of studies or for not having put in the requisite percentage of attendance to the satisfaction of a Committee consisting of the Dean, Faculty of Law and the Professors-in-Charge of the Law Centres.
- (iii) An applicant who has failed in examination or failed to appear at the examination and who is otherwise eligible to appear at the examination as an ex-student, shall not be admitted as a regular student. In exceptional cases, however, where such an applicant is a foreigner, studying under the Cultural Scholarship Scheme of the Government of India, etc., re-admission may be allowed.
- (iv) In respect of an applicant seeking re-admission, his previous record shall be carefully scrutinized at the concerned Law Centre.

### **Pass percentage and Classification of Successful Candidates**

The following shall be the percentage of marks for passing the examination and for classification of successful candidates admitted to the LL.B. course:

- (i) A candidate must pass in all 30 courses in six Terms to be eligible to obtain the LL.B. Degree;
- (ii) A candidate must secure not less than 45% to pass in each Paper;
- (iii) A candidate securing 60% or more marks in the aggregate in all 30 courses taken together will be awarded First Division;

- (iv) A candidate securing less than 60% marks but not less than 50% marks in the aggregate in all the 30 courses taken together will be awarded Second Division;
- (v) No Division will be awarded to a candidate securing less than 50% marks in the aggregate in all the courses taken together;
- (vi) The Distinction in any paper(s) of a Term will be awarded only to those candidates who passed in all papers of the Term concerned in one attempt in normal course securing 75% marks in the paper(s) concerned.

### **Improvement of Previous Performance**

1. A student studying in the Third Term may be permitted to surrender his/her result of any subject of the First Term within one month of the commencement of the Term provided:
  - a) he/she has passed that subject in the first attempt; and
  - b) at the time of surrendering his/her result, he/she has passed at least 5 other subjects of the First and Second Terms taken together excluding the subjects the result of which he/she wishes to surrender.
2. A student studying in the Fourth Term may be permitted to surrender his/her result of any subject of the Second Term within one month of the commencement of that Term provided:
  - a) he/she has passed that subject in the first attempt; and
  - b) at the time of surrendering his/her result, he/she has passed at least 5 other subjects of the First and Second Terms taken together excluding the subjects the result of which he/she wishes to surrender.
3. A student studying in the Fifth Term may be permitted to surrender his/her result of any subject of the Third Term within one month of the commencement of that Term provided:
  - a) he/she has passed that subject in the first attempt; and
  - b) at the time of surrendering his/her result, he/she has passed at least 15 other subjects of the First, Second, Third and Fourth Terms taken together excluding the subjects the result of which he/she wishes to surrender.
4. A student studying in the Sixth Term may be permitted to surrender his/her result of any subject of the Fourth Term within one month of the commencement of that Term provided:
  - a) he/she has passed that subject in the first attempt; and
  - b) at the time of surrendering his/her result, he/she has passed at least 15 other subjects of the First, Second, Third and Fourth Terms taken together excluding the subjects the result of which he/she wishes to surrender.
5. A student who has been promoted to the Sixth Term may be permitted to surrender the results of not more than two subjects of the Fifth Term within one month of the commencement of the Term or the publication of the result of the Fifth Term, whichever is later. In such a case, he/she will take the supplementary examination in those subjects to be held in that year subject to his/her being eligible for the benefit of supplementary examinations.
6. A student who has passed in all the subjects of the Sixth Term may, within one month of the declaration of the result of Sixth Term examination, surrender his/her result of not more than

two subjects of the Sixth Term along with a declaration that he/she will not seek enrolment or employment or any other benefit on the basis that he/she has passed the LL.B. examination till such time the result of the subjects in which he/she wishes to improve his/her performance has been declared. He/she will take the examination at the next available opportunity.

7. Such candidates who surrender results in order to improve their performance will take the examination in the current question paper based on the latest syllabus alongwith the regular students of that year.

### **Supplementary Examination**

After the completion of six Terms, a student of LL.B. may take supplementary examination in any paper of I or III Term along with the V Term supplementary examination and in any paper of II or IV Term along with the VI Term supplementary examination held for the purpose: Provided that all the thirty papers required for getting the LL.B. Degree have to be cleared within the span period of six years.

### **Span Period**

Subject to the provisions contained in the Ordinance relating to ex-students as in force from time to time, a student must clear all the courses offered in all the Terms within a span period of six years from the date of admission to first year of the LL.B. course. No student shall be admitted as a candidate for any LL.B. examination after six years from the date of admission to the first year of the course.

2. **Amendments to Ordinance V(1) and to all other relevant Ordinances of the University regarding replacement of the nomenclature of the degree of Master of Comaparative Law. (Page No. 281 of the University Calendar Volume I (2004)) (E.C. 19.7.2014).**

*Replace Master of Comparative Law with LL.M. (Comparative Law) in Ordinance V(1).*

*Note: This is being done to comply with the list of approved degrees under Section 22 of the University Grants Commission Act, 1956.*



3. Amendments to Ordinance V(1), Appendix II to Ordinance V(2) and VII, and to all other relevant Ordinances of the University relating to the revision of syllabi/scheme of examinations and change in nomenclature of MHROD (Master of Human Resource and Organizational Development). (Page No. 282 of the University Calendar Volume I (2004)). (E.C. 19.7.2014).

*Replace the existing MHROD with the following:-*

**Master of Business Administration (Human Resource Development)**

**MBA (HRD)**

Semester I	Semester II
111 - General Management	321- Human Resource Management
112- Legal Framework of Business	322- Human Resource Development
113- Accounting for Managers	323- Organisational Behaviour
114- Economics for Managers	324- Organisational Development
115- Entrepreneurship and New Venture Planning	325- Labour and Social Security Laws
116- Corporate Governance and Social Responsibility of Business	326- Marketing Concepts and Principles
117- Business Statistics and Research Methodology	327- Economic and Accounting Aspects of Human Capital

Semester III	Semester IV
331 - Management of Industrial Relations	341 - Management of Transformation
332 - Performance Management and Talent Management	342- Cross Cultural Management
333 - Training and Development	343- Strategic Management
334 - Compensation Management and Employee Welfare Laws	344- Finance for Decision Making
335 - Negotiations and Union Management Relations	345- E-business and Cyber Laws
336- Management Information System and HR Analytics	346- Social Security and Participative Management
337- Training Report	347- Project Report

### Scheme of Examination

The system of examination shall be as follows:

- (i) Excepting papers 237, 247 in MBA (IB) and 337 and 347 in MBA (HRD) each paper shall carry 100 marks of which 30 marks shall be reserved for internal assessment based on class room participation, seminar, term papers, study reports, tests, viva-voce and attendance. The weightage given to each of these factors shall be decided and announced at the beginning of the Semester. The remaining 70 marks in each paper shall be awarded on the basis of a written examination at the end of each semester. The duration of the written examination of each paper shall be three hours.
- (ii) Paper 237 and 337: Training Report: After the end of second semester, each student will go for summer training for a period of two months in a company. Immediately after the completion of the summer training, each student will submit a Training Report to the Department for evaluation in the beginning of the third semester. The evaluation of the Training Report shall be as follows:
 

Report evaluation -70 marks  
Report presentation and viva-voce -30 marks
- (iii) Paper 247 and 347: Project Report : The scheme of evaluation for the Project Report shall be as follows:
  - (a) Project Report work shall begin from the third semester of Part – II. Students shall select topic of their project work at the commencement of Semester – III in consultation with the Faculty members. After approval of the project topics by the MBA (IB)/ MBA (HRD) Committee, they shall begin their work. At the completion of the project work, they shall submit three typed copies of their project report for evaluation before the commencement

of the Semester – IV examination. Project report shall be a viva-voce examination at the end of Part-II and each candidate shall be evaluated out of 30 marks. The viva-voce examination shall be conducted by the internal and external examiners.

- (b) Based on the project work shall be a viva-voce examination at the end of Part-II and each candidate shall be evaluated out of 30 marks. The viva-voce examination shall be conducted by the internal and external examiners.

### **Evaluation and span period**

- (i) The minimum marks for passing the examination shall be 45% in each paper and 50% in the aggregate of the semester I, student fails to secure 45 percent marks in any of the papers, he/she can reappear in those paper/papers in the subsequent semesters.

If a candidate admitted to the examination in any semester secures the minimum marks to pass in each paper but fails to secure the minimum marks to pass in the aggregate, he/she may appear in any of the paper/s of the Semester concerned according to his/her choice in order to be able to secure the minimum marks prescribed to pass in the aggregate in each semester.

- (ii) If a student fails to appear in any of the papers in MBA (IB)/ MBA (HRD) Semester – I of Part-I of the University examination, he/she will be allowed to take examination in that paper/papers along with second semester examination of Part – I.

- (iii) Admission to Part-II of MBA (IB)/ MBA (HRD) Course shall be open to those who have cleared successfully at least 10 papers out of 14 papers offered for the MBA (IB)/ MBA (HRD) Part –I course comprising of Semesters I and II taken together. However, he/she would have to clear the remaining papers while studying in MBA (IB)/ MBA (HRD) Part – II in the second year.

- (iv) If a student fails or fails to appear in any of the papers in third semester examination of Part-II other than Training Report, he/she will be allowed to take the examination in the subjects along with examination in the subjects of fourth semester of Part-II Examination.

- (v) Only those candidates who have secured at least 45 per cent in each paper and 50 percent in aggregate in each of the semesters of the MBA (IB)/ MBA (HRD) course shall be eligible for the award of the Degree. Successful candidates will be classified on the basis of the combined results of Part – I and Part – II examination as follows.

Candidates securing 60% and above	: I Division
All others	: II Division

- (vi) Candidates who have already received the minimum pass marks in the Training Report/Project report at the University examination shall not be allowed to reappear in the examination.
- (vii) The conditions of passing the course shall not be deemed to have been satisfied unless a student undergoes practical training under the supervision of the Department in approved organizations for at least two months.
- (viii) A candidate must qualify for the award of the Degree within four years of his/her admission to the MBA (IB)/ MBA (HRD) course.
- (ix) Candidates who fail or failed to appear the MBA (IB)/ MBA (HRD) examination after pursuing a regular course may be allowed to reappear at the examination on being enrolled as an ex-

student as per the rules of the University. The old course will remain in force for ex-student only for a period of three years from the year in which the revised course introduced.

- (x) No candidate shall be considered to have pursued a regular course of study unless he/she is certified by the Department to have attended at least three-fourth of the total number of lectures, tutorials, special lectures and seminars conducted in each semester during his course of study. Provided that he/she fulfills other conditions, the Department may permit a student to proceed to the next semester who falls short of the required percentage of attendance by not more than 10% lectures, tutorials, special lectures and seminars conducted during the whole of that semester of the course but a student so permitted shall not be deemed to have completed a regular course of study in the next succeeding semester unless he/she makes up the shortage so condoned.
- (xi) No revaluation of answer books is permitted as per the rules of the University applicable to the professional courses.

4. Amendments to Ordinance V(1), Appendix II to Ordinance V(2) and VII, and to all other relevant Ordinances of the University relating to the revision of syllabi/scheme of examinations and change in nomenclature of MIB (Master of International Business). (Page No.282 of the University Calendar Volume I (2004)) (E.C. 19.7.2014).

*Replace the existing MIB (Master of the International Business) with the following:-*

**Master of Business Administration (International Business)  
MBA (IB)**

Semester I	Semester II
111 - General Management	221 - Marketing Management
112 - Legal Framework of Business	222 - International Business Environment
113 - Accounting for Managers	223 - International Trade and Policy Framework
114 - Economics for Managers	224 - Operations Research for Business Decisions
115 - Entrepreneurship and New Venture Planning	225 - Corporate Finance
116 - Corporate Governance and Social Responsibility of Business	226 - International Financial System
117 - Business Statistics and Research Methodology	227 - Internet Security and Cyber Laws
Semester III	Semester IV
231- International Marketing	241- International Marketing Research
232 - International Trade Practices, Procedures and Documentation	242- Global Strategic Management
233 - Service Marketing and Customer Relationship Management	243 - Cross - Cultural Consumer and Industrial Buyer Behaviour
234- International Financial Management	244 - International Advertising and Brand Management
235- International Supply Chain Management and Logistics	245 - International Human Resource Management
236 - Foreign Language for Business- I	246 - Foreign Language for Business-II
237 - Training Report	247 - Project Report

## Scheme of Examination

The system of examination shall be as follows:

- (i) Excepting papers 237, 247 in MBA (IB) and 337 and 347 in MBA (HRD) each paper shall carry 100 marks of which 30 marks shall be reserved for internal assessment based on class room participation, seminar, term papers, study reports, tests, viva-voce and attendance. The weightage given to each of these factors shall be decided and announced at the beginning of the Semester. The remaining 70 marks in each paper shall be awarded on the basis of a written examination at the end of each semester. The duration of the written examination of each paper shall be three hours.
- (ii) Paper 237 and 337: Training Report: After the end of second semester, each student will go for summer training for a period of two months in a company. Immediately after the completion of the summer training, each student will submit a Training Report to the Department for evaluation in the beginning of the third semester. The evaluation of the Training Report shall be as follows:

Report evaluation -70 marks

Report presentation and viva-voce -30 marks

- (iii) Paper 247 and 347: Project Report : The scheme of evaluation for the Project Report shall be as follows:
  - (a) Project Report work shall begin from the third semester of Part – II. Students shall select topic of their project work at the commencement of Semester – III in consultation with the Faculty members. After approval of the project topics by the MBA (IB)/ MBA (HRD) Committee, they shall begin their work. At the completion of the project work, they shall submit three typed copies of their project report for evaluation before the commencement of the Semester – IV examination. Project report shall be a viva-voce examination at the end of Part-II and each candidate shall be evaluated out of 30 marks. The viva-voce examination shall be conducted by the internal and external examiners.
  - (b) Based on the project work shall be a viva-voce examination at the end of Part-II and each candidate shall be evaluated out of 30 marks. The viva-voce examination shall be conducted by the internal and external examiners.

## Evaluation and span period

- (i) The minimum marks for passing the examination shall be 45% in each paper and 50% in the aggregate of the semester, student who fails to secure 45 percent marks in any of the papers; he/she can reappear in those paper/papers in the subsequent semesters.

If a candidate admitted to the examination in any semester secures the minimum marks to pass in each paper but fails to secure the minimum marks to pass in the aggregate, he/she may appear in any of the paper/s of the Semester concerned according to his/her choice in order to be able to secure the minimum marks prescribed to pass in the aggregate in each semester.

- (ii) If a student fails to appear in any of the papers in MBA (IB)/ MBA (HRD) Semester – I of Part-I of the University examination, he/she will be allowed to take examination in that paper/papers along with second semester examination of Part – I.



- (iii) Admission to Part-II of MBA (IB)/ MBA (HRD) Course shall be open to those who have cleared successfully at least 10 papers out of 14 papers offered for the MBA (IB)/ MBA (HRD) Part –I course comprising of Semesters I and II taken together. However, he/she would have to clear the remaining papers while studying in MBA (IB)/ MBA (HRD) Part – II in the second year.
- (iv) If a student fails or fails to appear in any of the papers in third semester examination of Part-II other than Training Report, he/she will be allowed to take the examination in the subjects along with examination in the subjects of fourth semester of Part-II Examination.
- (v) Only those candidates who have secured at least 45 per cent in each paper and 50 percent in aggregate in each of the semesters of the MBA (IB)/ MBA (HRD) course shall be eligible for the award of the Degree. Successful candidates will be classified on the basis of the combined results of Part – I and Part – II examination as follows.
- |                                   |               |
|-----------------------------------|---------------|
| Candidates securing 60% and above | : I Division  |
| All others                        | : II Division |
- (vi) Candidates who have already received the minimum pass marks in the Training Report/Project report at the University examination shall not be allowed to reappear in the examination.
- (vii) The conditions of passing the course shall not be deemed to have been satisfied unless a student undergoes practical training under the supervision of the Department in approved organizations for at least two months.
- (viii) A candidate must qualify for the award of the Degree within four years of his/her admission to the MBA (IB)/ MBA (HRD) course.
- (ix) Candidates who fail or failed to appear the MBA (IB)/ MBA (HRD) examination after pursuing a regular course may be allowed to reappear at the examination on being enrolled as an ex-student as per the rules of the University. The old course will remain in force for ex-student only for a period of three years from the year in which the revised course introduced.
- (x) No candidate shall be considered to have pursued a regular course of study unless he/she is certified by the Department to have attended at least three-fourth of the total number of lectures, tutorials, special lectures and seminars conducted in each semester during his course of study. Provided that he/she fulfills other conditions, the Department may permit a student to proceed to the next semester who falls short of the required percentage of attendance by not more than 10% lectures, tutorials, special lectures and seminars conducted during the whole of that semester of the course but a student so permitted shall not be deemed to have completed a regular course of study in the next succeeding semester unless he/she makes up the shortage so condoned.
- (xi) No revaluation of answer books is permitted as per the rules of the University applicable to the professional courses.

5. Amendments to Appendix II to Ordinance V(2) and VII, and to all other relevant Ordinances of the University regarding introduction of six months teaching compulsory module on Environmental Studies for undergraduate programmes in Colleges of University of Delhi, with effect from the academic session 2014-15 in first and second Semesters of the first year as per UGC guidelines. (E.C. 19.7.2014).

*Add the following as a Compulsory Core Module on Environmental Studies for Undergraduate Programmes:-*

## ENVIRONMENTAL STUDIES

### Unit 1: Introduction to environmental studies

- Multidisciplinary nature of environmental studies
- Scope and importance
- Need for public awareness.

(2 lectures)

### Unit 2: Ecosystems

- Concept of an ecosystem.
- Structure and function of an ecosystem.
- Energy flow in an ecosystem: food chains, food webs and ecological pyramids.
- Ecological succession.
- Case studies of the following ecosystems:
  - a) Forest ecosystem
  - b) Grassland ecosystem
  - c) Desert ecosystem
  - d) Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

(6 lectures)

### Unit 3: Natural Resources: Renewable and Non-renewable Resources

- Land resources and land use change: Land as a resource, land degradation, landslides (natural & man-induced), soil erosion and desertification.
- Forests & forest resources: Use and over-exploitation, deforestation, case studies.
- Impacts of deforestation, mining, dam building on environment, forests, biodiversity and tribal populations.
- Resettlement and rehabilitation of project affected persons; problems and concerns, case studies
- Water resources: Use and over-exploitation of surface and ground water, floods, drought, conflicts over water (international & inter-state).
- Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies.
- Energy resources: Renewable and non-renewable energy sources, use of alternate energy sources, growing energy needs, case studies.

(8 lectures)



#### **Unit 4: Biodiversity and Conservation**

- Levels of biological diversity: genetic, species and ecosystem diversity.
- Biogeographic zones of India
- Ecosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic and Informational values
- Biodiversity patterns and global biodiversity hot spots
- India as a mega-biodiversity nation; Endangered and endemic species of India
- Threats to biodiversity: Habitat loss, poaching of wildlife, man-wildlife conflicts, biological invasions.
- Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.

(8 lectures)

#### **Unit 5: Environmental Pollution**

- What are environmental pollution and its types?
- Causes, effects and control measures of:
  - e) Air pollution
  - f) Water pollution- freshwater and marine
  - g) Soil pollution
  - h) Noise pollution
  - i) Thermal pollution
- Nuclear hazards and human health risks
- Solid waste management: Control measures of urban and industrial waste.
- Role of an individual in prevention of pollution.
- Pollution case studies.

(8 lectures)

#### **Unit 6: Environmental Policies & Practices**

- Concept of sustainability and sustainable development.
- Water conservation & watershed management.
- Climate change, global warming, acid rain, ozone layer depletion.
- Disaster management: floods, earthquake, cyclones and landslides.
- Wasteland reclamation.
- Environment Protection Act.
- Air (Prevention and Control of Pollution) Act.
- Water (Prevention and control of Pollution) Act
- Wildlife Protection Act
- Forest Conservation Act
- Issues involved in enforcement of environmental legislation.
- Environment: rights and duties.

(7 lectures)

#### **Unit 7: Human Population and the Environment**

- Population growth, demographic variation among nations.
- Environment, human health and welfare; infectious and lifestyle diseases in contemporary world.



- Value Education: Environmental ethics.
- Environmental communication and public awareness, case studies.

(6 lectures)

**Unit 8: Field work**

- Visit to an area to document environmental assets river/ forest/ grassland/ hill/mountain.
- Visit to a local polluted site-Urban/Rural/Industrial/Agricultural
- Study of common plants, insects, birds.
- Study of simple ecosystems-pond, river, hill slopes, etc.

(Equal to 5 lectures)

6. Amendments to Appendix II to Ordinance V(2) and VII, and to all other relevant Ordinances of the University relating to the syllabi/scheme of examinations of M.Com. (Master of Commerce). (Page No. 107 of the University Calendar Volume II (1989) (E.C. 19.7.2014).

*Replace the existing with the following:-*

**M.Com. Programme**

**AFFILIATION**

The programme shall be governed by the Department of Commerce, Faculty of Commerce and Business, University of Delhi, Delhi- 110007

**Programme Structure**

The M. Com Programme is divided into two parts as under. Each Part will consist of two semesters.

		<b>Semester</b>	<b>Semester</b>
Part- I	First Year	Semester I	Semester II
Part-II	Second Year	Semester III	Semester IV

\*There will be 4 lecture hours of teaching per week for each paper

\*Duration of examination of each paper shall be 3 hours.

\*Each paper will be of 100 marks out of which 70 marks shall be allocated for semester examination and 30 marks for internal assessment.

The schedule of papers prescribed for various semesters shall be as follows:

**Part I: Semester I**

PAPERS		Marks		Total Marks	Duration (Hrs.)	Credit (Hrs.)
Paper No.	Title	Written	Internal Assessment			
4101	Business Statistics	70	30	100	3	4
4102	Managerial Economics	70	30	100	3	4
4103	Managerial Accounting	70	30	100	3	4
4104	Financial Planning	70	30	100	3	4
4105	Organisational Theory and Behaviour	70	30	100	3	4
<b>TOTAL</b>				<b>500</b>		<b>20</b>

**Part I: Semester II**

PAPERS		Marks		Total Marks	Duration (Hrs.)	Credit (Hrs.)
Paper No.	Title	Written	Internal Assessment			
4201	Quantitative Techniques for Business	70	30	100	3	4
4202	Financial management and Policy	70	30	100	3	4
4203	Marketing Management	70	30	100	3	4
4204	Legal Aspects of Business	70	30	100	3	4
4205	International Business	70	30	100	3	4
<b>TOTAL</b>				<b>500</b>		<b>20</b>

**Part II: Semester III**

PAPERS		Marks		Total Marks	Duration (Hrs.)	Credit (Hrs.)
Paper No.	Title	Written	Internal Assessment			
4301	Global Strategic Management	70	30	100	3	4
4302	Entrepreneurship	70	30	100	3	4
-----	Major Group (Paper 1)	70	30	100	3	4
-----	Major Group (Paper 2)	70	30	100	3	4
-----	Minor Group (Paper 1)	70	30	100	3	4
<b>TOTAL</b>				<b>500</b>		<b>20</b>

## Part II: Semester IV

PAPERS		Marks		Total Marks	Duration (Hrs.)	Credit (Hrs.)
Paper No.	Title	Written	Internal Assessment			
4401	Corporate Governance, Ethics and Social Responsibility of Business	70	30	100	3	4
4402	Business Research	70	30	100	3	4
-----	Major Group (Paper 3)	70	30	100	3	4
-----	Major Group (Paper 4)	70	30	100	3	4
-----	Minor Group (Paper 2)	70	30	100	3	4
<b>TOTAL</b>				<b>500</b>		<b>20</b>
<b>GRAND TOTAL (4 Semesters)</b>				<b>2000</b>		<b>80</b>

### Elective Groups

Two groups (one Major and one Minor) from the available electives are to be selected at the commencement of M. Com. Part II - Semester III.

#### Notes:

1. The elective groups in the Semester IV will remain the same as the ones selected in Semester III.
2. Once a group has been selected, no change in selected groups will be allowed later.
3. While the first two papers of selected major group and first paper of selected minor group will be taught in Semester III, the next two papers of selected major group and second paper of selected minor group will be taught in Semester IV.

### List of Elective Groups

The Department will announce in the beginning of the respective semester, the list of elective groups which will be offered during the semester depending upon the availability of faculty members and the demand of electives.

#### Group A: Finance

- Paper MJ301: Financial Institutions and Markets
- Paper MJ302: Security Analysis and Portfolio Management
- Paper MJ403: International Financial System
- Paper MJ404: International Financial Management

#### Group B: Marketing

- Paper MJ311: International Marketing
- Paper MJ312: Advertising and Sales Management
- Paper MJ413: Consumer Behaviour

Paper MJ414: Supply Chain Management and Logistics

**Group C: Human Resource Management**

Paper MJ321: Human Resource Development

Paper MJ322: Management of industrial Relations

Paper MJ423: Strategic Human Resource Management

Paper MJ424: Compensation Management and Employee Welfare Laws

**Minor Groups**

**Group A: Taxation**

Paper MN331: Principles and Practice of Taxation and Indian Tax System

Paper MN432: Corporate Tax Structure and Planning

**Group E: Law**

Paper MN341: Corporate Law

Paper MN442: Industrial Law

**Group C: Accounting**

Paper MN351: Strategic Cost Management

Paper MN452: Accounting Theory and Financial Reporting

**Group D: International Business**

Paper MN361: India's Foreign Trade and Investment

Paper MN462: Management of International Business Operation

**Teaching**

The faculty of the Department is primarily responsible for organizing lecture work for M.Com. The instructions related to tutorials are provided by the respective registering units under the overall guidance of the Department. Faculty from some other Departments and constituent colleges are also associated with lecture and tutorial work in the Department.

**Scheme of Examinations**

1. English shall be the medium of instruction and examination.
2. Examinations shall be conducted at the end of each Semester as per the Academic Calendar notified by the University of Delhi.
3. The system of evaluation shall be as follows:
  - 3.1 Each paper will carry 100 marks, of which 30 marks shall be reserved for internal assessment based on a combination of tutorials, classroom participation, project work, seminar, term papers, tests, and attendance. The weightage given to each

of these components in a combination shall be decided and announced at the beginning of the semester by the Department in consultation with the teachers. The system so decided will be communicated by the Department to respective colleges.

3.2 The remaining 70 marks in each paper shall be awarded on the basis of a written examination at the end of each semester. The duration of written examination for each paper shall be three hours.

4. Examinations for courses shall be conducted only in the respective odd and even Semesters as per the Scheme of Examinations. Regular as well as ex-students shall be permitted to appear/reappear/improve in courses of Odd Semesters only at the end of Odd Semester and courses of Even Semesters only at the end of Even Semesters.

#### ❖ **Pass Percentage & Promotion Criteria**

a. The minimum marks required to pass any paper in a semester shall be 40% in each paper and 40% in aggregate of a semester.

However, a candidate who has secured the minimum marks to pass in each paper but has not secured the minimum marks to pass in aggregate may reappear in any of the paper/s of his choice in the concerned semester in order to be able to secure the minimum marks prescribed to pass the semester in aggregate.

No student would be allowed to avail of more than 3 chances to pass any paper inclusive of first attempt.

b. **Semester to Semester Promotion:** Students shall be required to fulfill the Part to Part promotion criteria. Within the same Part, students shall be allowed to be promoted from a semester to the next semester, provided he/she has passed at least half of the courses of the current semester.

**Part-I to Part-II Promotion:** Admission to Part- II of the Programme shall be open to only those students who have successfully passed at least 75% papers offered for the Part-I courses comprising of I and II Semester taken together. However, he/she will have to clear the remaining papers while studying in the 2<sup>nd</sup> year of the programme.

c. Students who do not fulfill the promotion criteria (c) above shall be declared failed 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.

d. A student who has to reappear in a paper prescribed for Semester I/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 II/IV may do so only in the even Semester examinations to be held in April/May.

❖ **Division Criteria**

Successful candidates will be classified on the basis of the combined results of Part-I and Part-II examinations as follows:

Candidates securing **60% and above**: I Division

Candidates securing **50% or more but less than 60%**: II Division

Candidates securing **40% or more but less than 50%**: III Division

❖ **Span Period**

No student shall be admitted as a candidate for the examination for any of the Parts/Semesters after the lapse of **four years** from the date of admission to the Part-I/Semester-I of the M. Com. Programme.

❖ **Attendance Requirement**

Attendance in tutorials, seminars etc. arranged by the Department/ College from time to time, is mandatory according to the Internal Assessment requirement as per University rules.

**Guidelines for Award of Internal Assessment Marks for the M.Com. course (Semester)**

As per the decision of Department Council meeting held on 27<sup>th</sup> July, 2009, the following are the guidelines for the award of Internal Assessment marks to the students admitted to M.Com. Semester-based Course Scheme:-

- ❖ For each paper, there are 30 marks allocated for internal assessment and 70 marks for the Annual Examination. Out of 30 marks allocated for internal assessment for each paper:
  - 20 marks are to be assigned for class test
  - 5 marks are to be assigned for assignment
  - 5 marks are to be assigned for attendance
- ❖ A class test of 20 marks in each paper will be conducted by the teachers teaching the paper at the Department of Commerce. The date and time of the class test will be notified to the students by the respective teachers-in-charge of (M.Com) course at the Department of Commerce.
- ❖ Five marks are to be awarded for assignment based work by the college/institution where the students are enrolled. The marks to be awarded on the basis of student's performance in any one or combination of assignments/activities such as presentation, participation in seminar/workshop, case study discussion, and submission of written assignments as part of their continuous evaluation. The composition of assignments/activities for each paper will be decided by the concerned college/ institution in advance and will be notified to the students.
- ❖ Five marks are to be awarded for attendance in the assignment/activities mentioned above by the college/institution where students are enrolled. The marks shall be awarded on the basis of existing norms for award of marks for attendance as per the Internal Assessment Scheme of University. The marks for attendance shall be as follows:

(i) More than 67% but less than 70%	1 Marks
(ii) 70% or more but less than 75%	2 Marks
(iii) 75% or more but less than 80%	3 Marks
(iv) 80% or more but less than 85%	4 Marks
(v) 85% and above	5 Marks



7. Amendments to Ordinance V(1), Appendix II to Ordinance V(2) and VII, and to all other relevant Ordinances of the University relating to change in nomenclature, revised course content and scheme of examination of B.Tech/B.S. Innovation with Mathematics & IT. (Page No. 279 of the University Calendar Volume-I (2004)) (E.C. 19.7.2014).

(a) Amendment to Ordinance V(1):

Existing Nomenclature	Amended Nomenclature
B.Tech./B.S. Innovation with Mathematics & IT	B.Tech (Information Technology and Mathematical Innovations)

*Note: The changes in the nomenclature of degree shall also be applicable to the students who were admitted in the academic sessions 2011-15, 2012-2016 and 2013-2017.*

(b) Amendment to Appendix II to Ordinance V(2)

*Replace the existing course contents and scheme of examinations of B.Tech./B.S. Innovation with Mathematics & IT with the revised course contents and scheme of examination of B.Tech. (Information Technology and Mathematical Innovations):-*

**B. Tech. (IT & Mathematical Innovations)**

**NO. OF SEATS:** 40

**DURATION:** 8 Semesters (4 years)

**ELIGIBILITY:** A minimum aggregate marks at 10+2 level as follows

General Category : 60% in four subjects (including Mathematics)

OBC category : 54% in four subjects (including Mathematics)

PH category : 55% in four subjects (including Mathematics)

SC/ST category : Passing marks with Mathematics as one subject

**ADMISSION:** Through a written MCQ based entrance test conducted at Delhi.

**COURSE FEE:** As notified by the University time to time

## COURSE STRUCTURE

Key: T: Theory, L: Lab, P: Project/Internship

### Semester I

Paper No.	Interactive Learning Modules (Paper Title)	Credits				Marks			
		T	L	P	Total	T	L	P	Total
I.1.	Seeing the world through <i>Calculus</i> . First steps through symbolic mathematics	3	3	0	6	75	75	0	150
I.2	Linearity in Nature: Engineering through <i>Linear Algebra</i> . First steps through numerical algorithms	3	3	0	6	75	75	0	150
I.3	Optimizing memory use through <i>Data Structure and Design</i>	4	0	0	4	100	0	0	100
I.4	The Science and Art of Logic and Programming: <i>Algorithms</i>	4	0	0	4	100	0	0	100
I.5	Physics at work I: <i>Deconstructing Machines</i>	3	3	0	6	75	75	0	150
I.6	<i>Business, Entrepreneurship and Innovation Management</i>	4	0	0	4	100	0	0	100
I.7	<i>Environment Science &amp; Ecosystem Management</i>	2	0	0	2	50	0	0	50
<b>Grand Total</b>		23	9	0	32	575	225	0	800

### Semester II

Paper No.	Interactive Learning Modules (Paper Title)	Credits				Marks			
		T	L	P	Total	T	L	P	Total
II.1.	Modeling continuous changes through <i>ordinary differential equations and complex analysis</i>	3	3	0	6	75	75	0	150
II.2	Understanding real life situations through <i>Discrete Mathematics</i>	4	0	0	4	100	0	0	100
II.3	Decoding <i>Computation Structure &amp; Logic</i>	4	0	0	4	100	0	0	100
II.4	Reflecting thought processes via <i>Object Oriented Programming</i>	3	3	0	6	75	75	0	150
II.5	Physics at work II: <i>Deconstructing devices</i>	3	3	0	6	75	75	0	150
II.6	<i>Art of Communication &amp; Creative Writing</i>	3	0	0	3	75	0	0	75
II.7	<i>Knowing specialization streams (Electives)</i>								
II.7.1	<i>Business processes and strategic IT alignment</i>	3	0	0	3	75	0	0	75
II.7.2	<i>Electronics at work &amp; circuit simulations</i>	3	0	0	3	75	0	0	75



II.7.3	<i>Exploring Biology – Systems Approach</i>	3	0	0	3	75	0	0	75
<b>Grand Total</b>		23	9	0	<b>32</b>	575	225	0	800

*Note:*

1. The student may opt for one or more papers in II.7. Only one paper will be included in the transcript as credit paper and the others as non-credit paper.
2. At the end of second semester, the student will opt for only one of the streams and will pursue papers meant for that stream in the subsequent semesters.

### Semester III

Paper No.	Interactive Learning Modules (Paper Title)	Credits				Marks			
		T	L	P	Total	T	L	P	Total
III.1	Modeling change in the world around us: <i>Partial Differential Equations</i>	4	0	0	4	100	0	0	100
III.2	Handling information through <i>Data Modeling &amp; Design</i>	3	3	0	6	75	75	0	150
III.3	Instructing computing devices: <i>Operating System</i>	4	0	0	4	100	0	0	100
III.4	Language and Communication: <i>Computational Linguistics</i>	4	0	0	4	100	0	0	100
III.5	<i>Specialization Streams - 1</i>								
III.5.1	Understanding <i>Economic Behavior</i> : The <i>micro</i> level	4	0	0	4	100	0	0	100
III.5.2	<i>Electronics Circuit elements and instruments</i>	4	0	0	4	100	0	0	100
III.5.3	<i>Integrative Biology</i>	4	0	0	4	100	0	0	100
III.6	<i>Specialization Stream - 2</i>								
III.6.1	<i>Principles of Management</i>	4	0	0	4	100	0	0	100
III.6.2	<i>Electronics circuit elements and instruments – Innovation Lab</i>	0	4	0	4	0	100	0	100
III.6.3	<i>Cell: Biochemical and Molecular perspective</i>	4	0	0	4	100	0	0	100
III.7	Summer Internship : projects drawn from the world around us	0	0	6	6	0	0	150	150
<b>Grand Total</b>		23	3	6	<b>32</b>	575*	75*	150	800

*Note:*

1. The students will attend papers in III.5 & III.6 only from the opted stream
2. \*For students opting for Electronics stream, the total marks for theory in this semester will be 475 and total marks for practical will be 175
3. The student will execute the internship III.7 during the preceding summer break.

### Semester IV

Paper No.	Interactive Learning Modules (Paper Title)	Credits				Marks			
		T	L	P	Total	T	L	P	Total
IV.1	Does Nature play dice?: The amazing world of <i>probability and statistics</i>	3	3	0	6	75	75	0	150
IV.2	Understanding Computing <i>Systems Architecture</i>	3	3	0	6	75	75	0	150
IV.3	<i>Software Engineering</i>	3	0	0	3	75	0	0	75
IV.4	<i>Science, Philosophy, Truth: Impact of technology</i>	3	0	0	3	75	0	0	75
IV.5	<i>Specialization Stream - 3</i>								
IV.5.1	Understanding <i>Economic Behaviour: The macro level</i>	4	0	0	4	100	0	0	100
IV.5.2	<i>Digital electronics and logic design</i>	4	0	0	4	100	0	0	100
IV.5.3	<i>Genes to Genomes</i>	4	0	0	4	100	0	0	100
IV.6	<i>Specialization Stream - 4</i>								
IV.6.1	Bringing Companies and clients together: <i>Sales &amp; Marketing management</i>	4	0	0	4	100	0	0	100
IV.6.2	<i>Digital electronics and logic design</i> – Innovation Lab	0	4	0	4	0	100	0	100
IV.6.3	<i>Flow of information in living systems</i>	4	0	0	4	100	0	0	100
IV.7	Semester long innovation project	0	0	6	6	0	0	150	150
<b>Grand Total</b>		<b>20</b>	<b>6</b>	<b>6</b>	<b>32</b>	<b>500*</b>	<b>150*</b>	<b>150</b>	<b>800</b>

#### Note:

1. The student will attend papers in IV.5 & IV.6 only from the opted stream
2. \* For students opting for Electronics stream, the total marks for theory in this semester will be 400 and total marks for practical will be 250
3. The student will finalize the semester long project title, area, and mentor(s) for IV.7 during Semester III. The project work will commence from the beginning of the preceding winter break.

### Semester V

Paper No.	Interactive Learning Modules (Paper Title)	Credits				Marks			
		T	L	P	Total	T	L	P	Total
V.1	Algorithms for Computational Mathematics: <i>Numerical Methods</i>	3	3	0	6	75	75	0	150
V.2	Information exchange in computing devices: <i>Data communication &amp; Networking</i>	4	0	0	4	100	0	0	100

V.3	Computer and Brain: Knowledge Discovery and <i>Artificial Intelligence</i>	3	0	0	3	75	0	0	75
V.4	<i>History, culture &amp; civilization</i>	3	0	0	3	75	0	0	75
V.5	<b><i>Specialization Stream - 5</i></b>								
V.5.1	Maximizing performance: <i>Human Resource management and Organizational Behaviour</i>	4	0	0	4	100	0	0	100
V.5.2	<i>Embedded systems studio - I</i>	4	0	0	4	100	0	0	100
V.5.3	<i>Biological Networks: from Micro to Macro niche</i>	4	0	0	4	100	0	0	100
V.6	<b><i>Specialization Stream - 6</i></b>								
V.6.1	Efficient manufacturing process: <i>Production and Operations Management</i>	3	3	0	6	75	75	0	150
V.6.2	<i>Signals &amp; Systems Engineering</i>	3	3	0	6	75	75	0	150
V.6.3	<i>Applied Genomics and Proteomics: Methods and techniques</i>	3	3	0	6	75	75	0	150
V.7	Industrial mini project	0	0	6	6	0	0	150	150
<b>Grand Total</b>		<b>20</b>	<b>6</b>	<b>6</b>	<b>32</b>	<b>500</b>	<b>150</b>	<b>150</b>	<b>800</b>

Note:

1. The student will attend papers in V.5 & V.6 only from the opted stream
2. The student will execute the Industrial mini project V.7 during the preceding summer break.

#### Semester VI

Paper No.	Interactive Learning Modules (Paper Title)	Credits				Marks			
		T	L	P	Total	T	L	P	Total
VI.1	Linear Construction of Actions: Engineering through <i>Linear Programming and Game Theory</i>	4	0	0	4	100	0	0	100
VI.2	<i>Computer Graphics and Visualization</i>	3	3	0	6	75	75	0	150
VI.3	<i>Advanced Algorithm Design</i>	3	0	0	3	75	0	0	75
VI.4	<i>Art &amp; Design</i>	3	0	0	3	75	0	0	75
VI.5	<b><i>Specialization Stream - 7</i></b>								
VI.5.1	Handling money: <i>Finance management</i>	4	0	0	4	100	0	0	100
VI.5.2	<i>Embedded systems studio - II</i>	4	0	0	4	100	0	0	100
VI.5.3	<i>Biodefense and Bioengineering</i>	4	0	0	4	100	0	0	100
VI.6	<b><i>Specialization Stream - 8</i></b>								
VI.6.1	<i>e - Business: Organization and Strategy</i>	3	3	0	6	75	75	0	150
VI.6.2	<i>Control Systems</i>	3	3	0	6	75	75	0	150

VI.6.3	<i>In silico Biology</i>	3	3	0	6	75	75	0	150
VI.7	Project in Industry, Society and Villages	0	0	6	6	0	0	150	150
<b>Grand Total</b>		20	6	6	<b>32</b>	500	150	150	800

*Note:*

1. The student will attend papers in VI.5 & VI.6 only from the opted stream
2. The student will finalize the semester long project title, area, and mentor(s) for VI.7 during Semester V. The project work will commence from the beginning of the preceding winter break.

### Semester VII

Paper No.	Interactive Learning Modules (Paper Title)	Credits				Marks			
		T	L	P	Total	T	L	P	Total
VII.1	Fluidity in nature: computational interpretations	4	0	0	4	100	0	0	100
VII.2	<i>Computer Language Design &amp; Engineering</i>	3	0	0	3	75	0	0	75
VII.3	<i>Software Project Management</i>	3	3	0	6	75	75	0	150
VII.4	<i>Visual art &amp; aesthetics</i>	3	0	0	3	75	0	0	75
VII.5	<i>Specialization Stream - 9</i>								
VII.5.1	<i>Environment Management</i>	4	0	0	4	100	0	0	100
VII.5.2	Engineering at Molecular Scale: <i>Devices and Nanotechnology</i>	4	0	0	4	100	0	0	100
VII.5.3	Modeling and Simulating Brain Functions: <i>Computational Neuroscience</i>	4	0	0	4	100	0	0	100
VII.6	<i>Specialization Stream - 10</i>								
VII.6.1	<i>Business automation strategies</i> ERP. Case studies and project in industry	3	3	0	6	75	75	0	150
VII.6.2	<i>Circuit Analysis and Synthesis</i>	3	3	0	6	75	75	0	150
VII.6.3	<i>Systems Biology</i>	3	3	0	6	75	75	0	150
VII.7	Industrial mini project, Simulation of real time cases	0	0	6	6	0	0	150	150
<b>Grand Total</b>		20	6	6	<b>32</b>	500	150	150	800

*Note:*

1. The student will attend papers in VII.5 & VII.6 only from the opted stream
2. The student will execute the Industrial mini project VII.7 during the preceding summer break.

### Semester VIII

Paper No.	Interactive Learning Modules (Paper Title)	Credits				Marks			
		T	L	P	Total	T	L	P	Total
VIII.1	Industrial Internship/Major Project	0	0	32	32	0	0	800	800
<b>Grand Total</b>		0	0	32	<b>32</b>	0	0	800	800

**Note:**

- The students will decide the field of work and the organization for execution of the Industrial Internship/Major Project VIII.1 during Semester VII.

### B.Tech. (IT & Mathematical Innovation)

#### PROMOTION CRITERIA

- The minimum marks required to pass in any paper in a semester, whether theory or practical, shall be 40%. For theory paper, the student must secure 40% in the end semester evaluation and 40% in "Internal + end semester evaluation" of the paper.

Nature of paper	Credits	Minimum passing marks requirements
Theory	2	14 marks in end semester written examination and 20 marks in total
	3	22 marks in end semester written examination
		and 30 marks in total
	4	10 marks in semester long innovation project,
Practical	4	20 marks in end semester written examination and 40 marks in total
	3	12 marks in the innovation project, 18 marks in the lab activities and 30 marks in total.
Internship, Semester long Projects	4	16 marks in the innovation project, 24 marks in the lab activities and 40 marks in total
	6	36 marks in mentor assessment and 24 marks in the board evaluation
Semester long Industrial Internship, Major Projects	32	320 marks

2. A student who does not satisfy the criteria (1) above in any paper shall have to repeat the paper. The student shall be awarded ER (Essential Repeat) in that paper.
3. A student who has to reappear in any paper of Semester I/ III/ V/ VII may do so only in the subsequent semester examination of Semester I/ III/ V/ VII respectively. Similarly if a student has to reappear in any paper of Semester II/ IV/ VI may do so only in the subsequent semester examination for Semester II/ IV/ VI respectively.
4. A student who reappears in any paper (theory or practical) shall carry forward the marks of the internal assessment originally awarded to him/her.
5. Total credit in eight semesters is 256. A student passing a paper will earn the total credit assigned to that paper.
6. A student shall be eligible for promotion from 1<sup>st</sup> year to the 2<sup>nd</sup> year if he/she accrues at least 50% of the total credits in Semester I and Semester II combined. Similarly a student shall be eligible for promotion from 2<sup>nd</sup> year to the 3<sup>rd</sup> year if he/she accrues at least 50% of the total credits in Semester III and Semester IV combined (irrespective of the result at the end of the first year). A student shall be eligible for promotion from 3<sup>rd</sup> year to the 4<sup>th</sup> year if he/she accrues at least 50% of the total credits in Semester V and Semester VI combined (irrespective of the result at the end of the second year). A student shall be eligible to have passed the 4<sup>th</sup> year provided he/she earns 256 credits during Semester I to Semester VIII.
7. No student will be held back in Semester I/ III/ V/ VII.
8. A student who does not satisfy criterion (6) is required to repeat a year. However, he/she can retain the marks of all or some of the papers that do not carry an ER.

#### **SPAN PERIOD**

The span period to complete the course shall be six years from the year of admission.

#### **ATTENDANCE**

Averaged percentage of attendance to appear in the end semester examination shall be as per University Rules for Undergraduate Degree Examinations at the time. .

#### **EVALUATION**

- a. The evaluation or assessment for each theory paper with 4 credits shall be based on regular internal assessment throughout the semester (25 marks), a semester long innovation project in the field (25 marks, evaluated as part of the end semester examination) and a final end-semester written examination (50 marks).
- b. The evaluation or assessment for each theory paper with 3 credits shall be based on regular internal assessment throughout the semester (20 marks), and a final end-semester written examination (55 marks).





- c. The evaluation or assessment for each theory paper with 2 credits shall be based on regular internal assessment throughout the semester (15 marks), and a final end-semester written examination (35 marks).
- d. The evaluation or assessment for a laboratory paper with 3 credits shall be based on regular internal assessment throughout the semester (45 marks for laboratory activities and 30 marks for the innovation project).
- e. The evaluation or assessment for a laboratory paper with 4 credits shall be based on regular internal assessment throughout the semester (60 marks for laboratory activities and 40 marks for the innovation project).
- f. For the project work or internship carried out either during the semester or during the summer break (Semester III – Semester VIII), broad guidelines for the evaluation shall be as follows:

**I. Evaluation of projects/ Internship with 6 Credits.**

- (i) A candidate/group of candidates will be mentored by a teacher OR a responsible person in industry/organisation as assigned by the Programme Coordinator. On completion of the project, the students will submit a brief written report to the ERC. The report will be examined by a board of examiners (one board for 10 students), consisting of three members appointed by the Director, CIC on the recommendation of ERC.
- (ii) The evaluation will be on the work carried out by the student, written report and viva/ presentation. 60% weightage (90 marks) will be given to the continuous performance (by the mentor) and 40% weightage (60 marks) for the final assessment (by the board of examiners) after the completion of the project.

**II. Evaluation of 32 Credits Industrial Internship/ Major Project (Semester- VIII)**

A dissertation should be submitted at the end of VIII semester. However, ERC may grant extension, not exceeding the maximum duration of the semester but not more than six months at a time. The dissertation will be examined by a board of three members appointed by the Director, CIC on the recommendation of the ERC. A viva-voce examination will be conducted by the board and marks awarded taking into consideration both dissertation and viva.

8. Amendments to Ordinance V (1), Appendix II to Ordinance V(2) and VII, and to all other relevant Ordinances of the University relating to change in nomenclature, revised course content and scheme of examinations etc. of B. Tech. Humanities – 4 years course. (Page No.281 of the University Calendar Volume I (2004)) & (Page No.61 of the University Calendar Volume II (1989)) (E.C. 19.7.2014).

(a) Amendment to Ordinance V(1)

Existing Nomenclature	Amended Nomenclature
B.Tech. Humanities	B.A. Hons. (Humanities & Social Sciences)

(b) Amendment to Appendix II to Ordinance V(2)

*Replace the existing course contents, scheme of examinations etc. of B. Tech Humanities-4 years course with the revised course contents, scheme of examinations etc. of B.A. Hons. (Humanities & Social Sciences)-3 years course:-*

**B.A Hons. (Humanities & Social Sciences)**

**Batch 1 - (2012-2016)**

Students to be offered 4 papers in each of the two remaining semesters in their 3<sup>rd</sup> year (2014-15). These papers will be taught at CIC/Colleges.

**Batch 2 - (2013-2017)**

Students to take 4 papers, including projects/practicals, in each of the remaining four semesters. In each semester students will do three papers in colleges (with mutual understanding) and one at CIC.

**2014-15 onwards: Admission to B.A. (Humanities & Social Sciences)**

No. of students to be admitted: 40 (Reservation as per University norms)

Eligibility: 10+2 (any stream)

**Admission Process:**

- ✓ Pre-screening: Applicants should be enrolled in any one of the following institutions of University of Delhi: Colleges, School of Open Learning (SOL) and Non Collegiate Women's Education Board.
- ✓ Written test of 2-hour duration.

This course will offer four streams: 1. Journalism; 2. Historical Tourism; 3. Counseling; 4. Art & Design.

Students have to indicate their choice of stream at the time of admission.



## COURSE STRUCTURE

**Semester I:** Five compulsory papers to be taught at CIC.

**Semester II to V:** Three papers in colleges and one paper to be taught at CIC in each Semester (16 papers).

**Semester VI:** Four compulsory papers at CIC.

**Total No. of Papers: 25 (Range of Credits to be earned: 130-146)**

24 papers: 4.5.-6 Credits (100 Marks) each.

01 paper: 2 Credits (50 Marks) - Environmental Studies

No. of Credits for a paper in Honours: 6 No. of Credits for a Concurrent Course: 5 No. of Credits for a B.A. Programme Course: 4.5 No. of Credits for a paper at CIC: 5-6
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SEMESTER I (at CIC)	SEMESTER II - V*				SEMESTER VI (at CIC)
	Sem II	Sem III	Sem IV	Sem V	
1.1 Art of Communication	Paper 2.1	Paper 3.1	Paper 4.1	Paper 5.1	6.1 Introduction to Digital Humanities
1.2 Cultural Diversity, Linguistic Plurality and Literary Traditions in India	Paper 2.2	Paper 3.2	Paper 4.2	Paper 5.2	6.2 Innovation Management
1.3 Impact of Technology: Philosophical Implications	Paper 2.3	Paper 3.3	Paper 4.3	Paper 5.3	6.3 Legal Literacy
1.4 Environmental Issues in India	Project 2.4 at CIC	Project 3.4 at CIC	Project 4.4 at CIC	Project 5.4 at CIC	6.4 Stream Intensive Paper to be taught by Experts
1.5 Research Methodology					

*Note: Students will be advised to take at least 6 papers of one discipline.*

*\*details given in the suggested trajectories of each stream*

- Students will have to opt for *one* of the following four streams:  
 1. Journalism; 2 Historical Tourism; 3 Counseling; 4. Art & Design.



## Stream 1: Journalism

The role of journalism in democracy is crucial. In recognition of the need to evolve a strong socio-political consciousness as well as effective linguistic and communication skills, the student will be guided to choose courses from disciplines such as Political Sciences, Philosophy, Journalism, Literature, Psychology, Economics, Sociology etc.

The objective of the course is to provide the student paradigms of holistic learning, critical sensibility and the art of writing. Students will be encouraged to study courses that sensitize them to issues of social justice and public ethics.

### Suggested Trajectory of 'Journalism' Stream (Semester II-V)

Semester	Paper	DU Course	Semester/ Paper No.
II	<b>Paper I:</b> Media And Cultural Studies/ Political Processes in India/ Media Culture and Environment/ Society Culture and Social Change	Journalism (Hons): Pol. Science (Hons) BA Programme (AC) Sociology (Hons)	II/6 II/7 NA II
	<b>Paper II:</b> IT and Online Journalism	Journalism (Hons)	II/7
	<b>Paper III:</b> Reporting and Editing for Print	Journalism (Hons)	II/8
	<b>Paper IV:</b> at CIC in project Mode		
III	<b>Paper I:</b> Broadcast Journalism/ Print Journalism and Production	Journalism (Hons) Journalism (Hons)	III/9 III/12
	<b>Paper II:</b> Media Laws and Ethics	Journalism (Hons)	III/11
	<b>Paper III:</b> International Politics/ Theories of International Relations and World History/ Introduction to Comparative Government and Politics	Journalism (Hons) Pol. Science (Hons) Pol. Science (Hons)	III/11 III/11 III/9
	<b>Paper IV:</b> At CIC in project Mode		
IV	<b>Paper I:</b> Development Communication and Rural Journalism/ Reporting and Editing for Broadcast Media	Journalism (Hons) Journalism (Hons)	IV/13 IV/16
	<b>Paper II:</b> International Media Scenario/ Social and Political Philosophy	Journalism (Hons) Philosophy (Hons)	IV/14 IV/4.2
	<b>Paper III:</b> Advertising and Public Relations	Journalism (Hons)	IV/15
	<b>Paper IV:</b> At CIC in project Mode		
V	<b>Paper I:</b> New Media Technologies	Journalism (Hons)	V/17
	<b>Paper II:</b> Media Industry and Management/ Indian Political Thought-I	Journalism (Hons) Pol. Science (Hons)	V/18 V/17
	<b>Paper III:</b> Radio and TV Production	Journalism (Hons)	V/19
	<b>Paper IV:</b> At CIC in project Mode		

## Stream 2: Historical Tourism

Indian's rich heritage of history and culture attracts tourists in large numbers but is well known that the quality of information and tour services are deficient for the mid-level traveler in the country. Domestic tourism is on the rise, and here also the demand is for affordable quality and reliable guidance to historical sites.

“Historical Tourism” serves several purposes in making a student aware of the historical contexts in which modern society is embedded, in granting capabilities which open careers in a growth sector, and in encouraging self-employment in the hospitality industry. The University of Delhi offers a course in History (Hons.) at 21 colleges but the papers are not related to tourism. On the other hand a B.A Vocational Course in ‘Tourism Management’ does not enter the subject of History in depth. Combining the courses, and adding or modifying the course design through induction of papers in Sociology, Economics, Political Science, Languages and Art would enhance the learner’s capabilities for functioning effectively in the travel industry. Technology is an indispensable aid to the new competence required for simulations, photography, digitization, data analysis as a part of understanding the historical frameworks of modern India.

### Suggested Trajectory of ‘Historical Tourism’ Stream (Semester II-V)

Semester	Paper	DU Course	Semester/ Paper No.
II	<b>Paper I:</b> Tourism: Its anatomy, history, geography, philosophy and sociology* B.A. Programme (Tourism)	B.A. Prog.	II
	<b>Paper II:</b> Social formations & Cultural patterns of Ancient World/ History of India-III (c.750-1206)	History (Hons.) History (Hons.)	II II
	<b>Paper III:</b> History of India-V(c.1550-1605)/ foreign Language	History (Hons.) Germanic & Romance Studies	IV II
	<b>Paper IV:</b> at CIC in project mode		
III	<b>Paper I:</b> Travel Organisation: their planning, economics, function and development* B.A. Programme (Tourism)	B.A. Prog.	III
	<b>Paper II:</b> History of India-I	History (Hons.)	I
	<b>Paper III:</b> History of India-II/ History of India-IV (c.1206-1550)	History (Hons.) History (Hons.)	I III
	<b>Paper IV:</b> At CIC in project mode		
IV	<b>Paper I:</b> Tourism and Economics*/ Geography of India/ India's Economic Development since 1947*	Geography (H)	IV
	<b>Paper II:</b> Foreign Language/ India: the tourist destinations*	Germanic & Romance Studies	IV
	<b>Paper III:</b> Geography of Tourism	Geography (H)	IV

	<b>Paper IV: At CIC in project mode</b>		
V	<b>Paper I:</b> Transportation and Carries*/ Accommodation and Catering*/ Fundamentals of Management	BBS	I
	<b>Paper II:</b> Business Ethics & Corporate Governance	BBS	V
	<b>Paper III:</b> B.A. Programme (Tourism)	B.A. Prog.	V
	<b>Paper IV: At CIC in project mode</b>		

### Stream 3: Counseling

Counselors are employed in government and public schools. There is an acute shortage of trained counselors. Without appropriate preparation, training and practice adequate justice cannot be done to any assignment in this area. Seeing how vulnerable the recipient of counseling is, an important social responsibility lies in creating a cadre of qualified personnel who will attempt to impart holistic guidance, especially to school children and young adults in college.

In this context the stream "counseling" offered in this programme is extremely relevant to the present day society in India. While the programmes of 'Psychology' and 'Applied Psychology' are offered at the University of Delhi, this programme is different because it offers a holistic knowledge through also offering subjects in Sociology, Literature, Art, Music etc. to establish competencies that are interdisciplinary and innovative. Counseling may take the form of therapy through Arts, or confidence building through Personality Development, or advising on subject choice through an assessment of aptitude etc.

The stream "Counseling" is not replicating the Psychology Honours programme but it is setting up the frame for additional explorations.

### Suggested Trajectory of 'Counseling' Stream (Semester II-V)

Semester	Paper	DU Course	Semester/ Paper No.
II	<b>Paper I:</b> Physiological Psychology	Psychology (Hons.)	II/4
	<b>Paper II:</b> Emergence and Growth of Psychology	Psychology (Hons.)	IV/10
	<b>Paper III:</b> English Literature I (i)/ Contemporary Social Concerns	English (Hons.) Social Work (Hons.)	II/6 II/SW202
	<b>Paper IV: at CIC in project mode</b>		
III	<b>Paper I:</b> Foundations of Psychology/ Psychology and its Applications – I	Psychology (Hons.) App. Psycho. (Hons.)	I/1 I/1
	<b>Paper II:</b> Psychological Research / Applied Social Psychology - I	Psychology (Hons.) App. Psycho (Hons.)	III/7 III/9
	<b>Paper III:</b> Research Methodology & Statistics – I / Sociology of India – I Social Deviance	App. Psycho (Hons.) Sociology (Hons.) Social Work (Hons.)	I/2 I/2 III/SW303

	Twentieth Century Indian Writing (i)	English (Hons.)	I/2
	<b>Paper IV: at CIC in project mode</b>		
IV	<b>Paper I:</b> Emergence and Growth of Psychology / Counselling Psychology	Psychology (Hons.) Psychology (Hons.)	IV/10 VI/19
	<b>Paper II:</b> Applied Social Psychology – II/ Psychology and its applications - II	App. Psycho (Hons.) App. Psycho (Hons.)	IV/12 II/2
	<b>Paper III:</b> Human Resource Management/ Psychology of Social Psychology/ Ethics – I / Sociology of India – II / Social Stratification II / Communication and Development	Psychology (Hons.) App. Psychology (Hons.) Philosophy (Hons.) Sociology (Hons.) Sociology (Hons.) Social Work (Hons.)	VI/20 VI/19 IV/12 IV/4.3 II/4 VI/17 IV/SW402
	<b>Paper IV: at CIC in project mode</b>		
V	<b>Paper I:</b> Industrial/Organizational Psychology Counselling Psychology	Psycho Hons. App. Psycho	V/13 V/16
	<b>Paper II:</b> Abnormal Psychology – I Clinical Psychology	Psycho Hons. App. Psycho (Hons.)	V/15 V/17
	<b>Paper III:</b> Child and Adolescent Development Practicum based on Paper 12 (Applied Social Psychology – II) Ethics – II Social Stratification – I Industrial Sociology (Optional) Social Legislation and Human Rights	Psycho Hons. App. Psycho  Philosophy Hons. Sociology Hons. Sociology Hons. Social Work Hons.	V/17 V/18 V/5.4 V/12 V/15 V/SW502
	<b>Paper IV: at CIC in project mode</b>		

#### Stream 4: Art & Design

This stream creates an opportunity for interdisciplinary learning that recognizes the link between creativity and technology. The disciplinary boundaries of traditional universities have created gaps between those who have an aptitude for designing, painting, visual communication and those with talent for the applications of high-end technology. The entrepreneurial management of the arts has opened another field where Art and Business combines successfully. Given the work environment today and the demand for soft skills in market driven conditions, professional openings are available in art galleries, craftwork, book publishing, exhibition curating, apparel design and many other avenues. Those who have ICT capabilities are at an advantage.

While this stream may lead to jobs related to Museology and art management, those interested in design will get grounding for jobs in the burgeoning fields of Fashion Design, Interior Design, and furniture Design etc. Computer aided design is quite the norm today but traditional courses do not lay sufficient emphasis on this aspect.

### Suggested Trajectory of 'Art & Design' Stream (Semester II-V)

Semester	Paper	DU Course	Semester/Paper No.
II	<b>Paper I:</b> Introduction to Art & Art History / The Historiography of Art	BFA/DSC(CIC)*	II
	<b>Paper II:</b> Indian Art (Contemporary) / International Contemporary Art Scene		II
	<b>Paper III:</b> Drawing / Painting / Print Making		II
	<b>Paper IV:</b> at CIC in project mode		II
III	<b>Paper I:</b> Animation / Graphic Design	DSC (CIC) History Hons. BFA	NA
	<b>Paper II:</b> History of India-I		I
	<b>Paper III:</b> Composition		III
III	<b>Paper IV:</b> at CIC in project mode		
IV	<b>Paper I:</b> Painting / Drawing	BFA/DSC(CIC)	IV
	<b>Paper II:</b> Iconography		IV
	<b>Paper III:</b> Wood/ stone Carving		VI
	<b>Paper IV:</b> at CIC in project mode		
V	<b>Paper I:</b> Study from Life/ Ancient Indian art and History/ A Survey of Western Art	BFA/DSC(CIC)	V
	<b>Paper II:</b> Indian Folk & Tribal Art/ Introduction of Indian Aesthetics		III
	<b>Paper III:</b> Aesthetics I Aesthetics II	Philosophy	V
	<b>Paper IV:</b> at CIC in project mode		

**NOTE:**

- Programme Coordinator's approval is mandatory for the trajectory of papers chosen by the students.
- Advice of mentors is necessary for students to make their choices.
- Not more than 5 students from each batch may go to one college.
- No student will go to the same college for more than three semesters.





## Scheme of Marks

	Marks	Marks	Total Marks
Paper at CIC	60 (Theory)	40 (Practical)	100
Paper in Colleges*	75 (Theory)	25 (Internal)	100
Projects	60 (External)	40 (Internal)	100

\*as per university rules

*Note: CIC will be the examination center for all exams held for B.A. Honours (Humanities & Social Sciences)*

9. Amendments to Ordinance V(1), Appendix II to Ordinance V(2) and VII, and to all other relevant Ordinances of the University relating to change in nomenclature, revised course contents and scheme of examination etc. of Master of Mathematics Education. (Page No. 281 of the University Calendar Volume I (2004)) (E.C. 19.7.2014).

### (a) Amendment to Ordinance V(1)

Existing Nomenclature	Amended Nomenclature
Master of Mathematics Education (equivalent to M.Sc. in Mathematics Education)	M.Sc. (Mathematics Education)

### (b) Amendment to Appendix II to Ordinance V(2)

*Replace the existing course contents, scheme of examinations etc. of Master of Mathematics Education course with the revised course contents, scheme of examinations etc. of M.Sc. (Mathematics Education):-*

*Note:*

- 1. The change in the nomenclature of degree shall also be applicable to the students who will pass out in Dec 2014 – Jan 2015 and onwards.*
- 2. The change in nomenclature of the Meta University concept degree from Master of Mathematics Education to M.Sc. (Mathematics Education) shall also be placed to all competent authorities of Jamia Millia Islamia for necessary approvals at the earliest.*

### Eligibility Criteria:

Graduate degree in any discipline provided the applicant has done at least two full-fledged papers in mathematics at the undergraduate level.

### Admission Procedures:

Admission will be through Entrance Test (85% weightage) followed by interview (15% weightage) of shortlisted candidates (4 times of the number of seats).

**Number of Seats:**

Twenty (20) with following distribution of seats:

University of Delhi: 10

Jamia Millia Islamia: 10

**Reservation Policy:**

Number of seats shall be reserved as per rules of the two institutions, wherever the student is admitted.

**Per Semester Fee:**

To be determined mutually by partner universities i.e. University of Delhi and Jamia Millia Islamia. Presently fee is Rs.5000/- per semester.

**Evaluation**

- For projects, testing methodology will include group testing.
- Transfer of grades/credits between Jamia Millia Islamia and University of Delhi.

**Mentorship**

Project work/Practicum will be closely supervised by faculty of DU/JMI and Mentors who may be from outside the host institutions.

**Examination and result:**

The examination for papers studied by students at JMI will be conducted at JMI.\*

The examination for papers studied by students at DU will be conducted at DU.

Declaration of semester-wise result and issuing of Mark-sheets carrying logo of both DU and JMI shall be the responsibility of Examination Branch University of Delhi.

\* JMI examination branch will provide result of these papers to DU.

Elaborated examination scheme is given latter in this document.

**Joint Degree of DU & JMI:**

On successful completion of the program, joint degree will be awarded to students enrolled in Meta University concept course M.Sc. (Mathematics Education). The joint degree shall carry the logo and signatures of competent authorities of both DU and JMI. The degree shall be in three languages: English, Hindi and Urdu.

**Coordination Committee for M.Sc. (Mathematics Education):**

As per UGC guidelines, there shall be a coordination committee constituted by participating universities for each Programme. The participating Universities shall be responsible for deciding

- (a) Duration of Programme.
- (b) Number of course required for the programme.
- (c) Fee structure for the programme.
- (d) Number of students in the programme.
- (e) Infrastructure requirements.

- (f) (i) Framing syllabus  
(ii) Number of Lectures and associated activities for the course.  
(iii) Number of credits for the course.  
(iv) Evaluation procedure.  
(g) Any other related matter.

The Coordination Committee shall ensure timely decision on the above issues and other related issues.

The composition of the Coordination Committee for Meta University concept program of DU & JMI namely M.Sc. (Mathematics Education) shall be:

1. The Director, Cluster Innovation Centre, DU (Chairman)
  2. The Joint Director, Cluster Innovation Centre, DU (Member)
  3. Coordinator, Meta University Program, DU (Member Secretary)
  4. Three nominated members from field of Education/Mathematics Education/Mathematics/Media, DU (Members) (To be nominated by the Vice Chancellor, DU on the recommendation of the Director, Cluster Innovation Centre, DU)
  5. Coordinator, Meta University Program, JMI\*
  6. Three nominated members\* from field of Education/Mathematics Education/Mathematics/Media, JMI (Members) (To be nominated by the Vice Chancellor, JMI)
- \* One of the members from JMI will be designated as **Co-Chairman**.

## COURSE STRUCTURE

### M.Sc. (Mathematics Education)

Duration of the Course: Four Semester (Two Years)

Each Semester: 16 Weeks

I Credit: 16 hrs. Of Theory/ Guided Projects

Total No. of Credits to be acquired for the course: 96

SEMESTER I				
S. No.	Paper Title	Offering Centre	Credits	Maximum Marks
I.1	Calculus: Role in real life	CIC, DU	5	150
I.2	Perspectives in Mathematics Education	CIC, DU	5	150
I.3	Paper option 1 from JMI*	AJKMCRC, JMI	3	100
I.4	Paper option 2 from JMI*	AJKMCRC, JMI	3	100
I.5	Innovation Project-I: Interlinking mathematics and life problems	CIC, DU/JMI	8	200

SEMESTER II				
S. No.	Paper Title	Offering Centre	Credits	Maximum Marks
II.1	Demystifying the power of data: Probability & Statistics	CIC, DU	5	150
II.2	Curriculum and Evaluation in Mathematics	CIC, DU	5	150
II.3	ICT in Mathematics Education	CIC, DU	3	100
II.4	Learning ways of Mathematical writing	CIC, DU	3	100
II.5	Innovation Project: Internship in Educational setting-I	CIC, DU/JMI	8	200

SEMESTER III				
S. No.	Paper Title	Offering Centre	Credits	Maximum Marks
III.1	Discretizing and understanding Real Life Situations Through a Mathematical Lens	CIC, DU	5	150
III.2	Art of Teaching Mathematics	CIC, DU	5	150
III.3	Digital Technology in Mathematics Education	CIC, DU	3	100
III.4	Research Methodology in Education	CIC, DU	3	100
III.5	Innovation Project-III: Internship in Educational Setting-II	CIC, DU/JMI	8	200

SEMESTER IV				
S. No.	Paper Title	Offering Centre	Credits	Maximum Marks
IV.1	Understanding mathematical language of ordinary differential equations and complex analysis	CIC, DU	5	150
IV.2	Research Investigation in Mathematics Education	CIC, DU	5	150
IV.3	Paper option 3 from JMI*	AJKMCRC, JMI	3	100
IV.4	Paper option 4 from JMI*	AJKMCRC, JMI	3	100
IV.5	Innovation Project-IV: Research Dissertation	CIC, DU/JMI	8	200

\*List of papers to be opted from JMI

1. English for Media Communication
2. Advertising
3. Contemporary India and the World We Live in
4. Development Journalism
5. Media Management
6. Public Relations and Corporate Communication
7. Media Laws and Ethics
8. Mass Communication Theory
9. Media Research

*Note:*

*The decision to offer two or three specific papers from amongst the above-mentioned papers or any other course approved by Academic Council of JMI varies from semester to semester. Syllabus of the papers to be opted from JMI presently is as per approved syllabi of AJKMCRC.*

## Scheme of Examination

1. Combined semester-wise result of the Meta University concept course M. Sc. (Mathematics Education) would be declared on the basis of marks system as per details given in this document.
2. For every paper studied under Meta University concept course M. Sc. (Mathematics Education) at University of Delhi and at Jamia Millia Islamia, the total marks and breakup of marks for Theory Paper and for Internal Assessment along with pass percentage during four semesters is as given in the table below.
3. For every innovation project / project work done in a paper, the marks system of this component will be as given in the table below.

### Note:-

*The examination for papers studied by students at JMI will be conducted at JMI. \**

*The examination for papers studied by students at DU will be conducted at DU.*

*Declaration of semester-wise result and issuing of Mark-sheets carrying logo of both DU and JMI shall be the responsibility of Examination Branch University of Delhi.*

*\* JMI examination branch will provide result of these papers to DU.*

## Semester I

S. No.	Paper Title	Offering Centre	Credits	Total Marks	Marks Breakup	Pass Percentage
I.1	Calculus: Role in real life	CIC,DU	5	150 A . Theory 100 B . Project 50	A. Written 75 IA 25	40% in Total A. 40% in written 40% in Total B. 40% in Project
I.2	Perspectives in Mathematics Education	CIC,DU	5	150 A . Theory 100 B . Project 50	A. Written 75 IA 25	40% in Total A. 40% in written 40% in Total B. 40% in Project
I.3	Paper option 1 from JMI*	AJKMCRC, JMI	3	100	Written 75 IA 25	40% in Total 40% in Written
I.4	Paper option 2 from JMI*	AJKMCRC, JMI	3	100	Written 75 IA 25	40% in Total 40% in Written

I.5	Innovation Project-I: Interlinking mathematics & real world problems	CIC,DU/JMI	8	200		40% in Total
		<b>Total</b>	<b>24</b>	<b>700</b>		

### Semester II

S. No.	Paper Title	Offering Centre	Credits	Total Marks	Marks Breakup	Pass Percentage
II.1	Demystifying the power of data: Probability & Statistics	CIC,DU	5	150 A. Theory 100 B. Project 50	A. Written 75 IA 25	40% in Total A. 40% in written 40% in Total B. 40% in Project
II.2	Curriculum and Evaluation in Mathematics	CIC,DU	5	150 A. Theory 100 B. Project 50	A. Written 75 IA 25	40% in Total A. 40% in written 40% in Total B. 40% in Project
II.3	ICT in Mathematics Education	CIC,DU	3	100	Written 75 IA 25	40% in Total 40% in Written
II.4	Learning ways of Mathematical writing	CIC,DU	3	100	Written 75 IA 25	40% in Total 40% in Written
II.5	Innovation Project-II: Internship in Educational setting-I	CIC,DU/JMI	8	200		40% in Total
		<b>Total</b>	<b>24</b>	<b>700</b>		

### Semester III

S. No.	Paper Title	Offering Centre	Credits	Total Marks	Marks Breakup	Pass Percentage
III.1	Discretizing and understanding Real Life Situations Through a Mathematical Lens	CIC,DU	5	150 A . Theory 100 B . Project 50	A. Written 75 IA 25	40% in Total A. 40% in written 40% in Total B. 40% in Project
III.2	Art of Teaching Mathematics	CIC,DU	5	150 A . Theory 100 B . Project 50	A. Written 75 IA 25	40% in Total A. 40% in written 40% in Total B. 40% in Project
III.3	Digital Technology in Mathematics Education	CIC,DU	3	100	Written 75 IA 25	40% in Total 40% in Written
III.4	Research Methodology in Education	CIC,DU	3	100	Written 75 IA 25	40% in Total 40% in Written
III.5	Innovation Project-III: Internship in Educational Setting-II	CIC,DU/JMI	8	200		40% in Total
			24	700		

### Semester IV

S. No.	Paper Title	Offering Centre	Credits	Total Marks	Marks Breakup	Pass Percentage
IV.1	Understanding mathematical language of ordinary differential equations and complex analysis	CIC,DU	5	150 A . Theory 100 B . Project 50	A. Written 75 IA 25	40% in Total A. 40% in written 40% in Total B. 40% in Project
IV.2	Research Investigation in Mathematics	CIC,DU	5	150 A . Theory	A. Written 75	40% in Total A. 40% in written

	Education			100 B. Project 50	IA 25	40% in Total B. 40% in Project
IV.3	Paper option 3 from JMI*	AJKMCRC, JMI	3	100	Written 75 IA 25	40% in Total 40% in Written
IV.4	Paper option 4 from JMI*	AJKMCRC, JMI	3	100	Written 75 IA 25	40% in Total 40% in Written
IV.5	Innovation Project-IV: Research Dissertation	CIC,DU/JMI	8	200		40% in Total
			24	700		

\* List of papers to be opted from JMI

1. English for Media Communication
2. Advertising
3. Contemporary India and the World We Live in
4. Development Journalism
5. Media Management
6. Public Relations and Corporate Communication
7. Media Laws and Ethics
8. Mass Communication Theory
9. Media Research

*Note:*

*The decision to offer two or three specific papers from amongst the above-mentioned papers or any other course approved by Academic Council of JMI varies from semester to semester. Syllabus of the papers to be opted from JMI presently is as per approved syllabi of AJKMCRC.*

### **Promotion Scheme for M.Sc. (Mathematics Education)**

**(i) General Rules:**

1. A student shall earn full credits for a paper if she/he passes the paper and shall earn no credit if she/he fails in the paper.
2. All students shall be promoted from first to second semester irrespective of their performance in first semester. Similarly, all students shall be promoted from third to fourth semester irrespective of their performance in third semester.
3. A student shall be eligible for promotion from 1<sup>st</sup> year to 2<sup>nd</sup> year (third semester) provided she/he has passed five out of ten papers. (i.e. minimum 50% of the papers)



4. A student not eligible for promotion from 1<sup>st</sup> year to 2<sup>nd</sup> year (third semester), however, shall retain her/his marks secured in papers she/he passed and that of Internal assessment only in papers she/he has not passed.
5. If a student fails in an Innovation Project paper, she/he has to either redo the project or carry out a new project.
6. A student will be given a maximum of three chances in total to pass a paper as and when that paper's examination takes place within three years of his first appearance in the examination of that paper.
7. No supplementary examination shall be conducted.
8. A student shall be awarded the degree only if he/she passes in all the papers.
9. Grand Total of marks of all four semesters is 2800. A student shall be awarded first division if she/he secures 60% or more marks in aggregate. A student shall be awarded second division if she/he secures marks between 50% or more marks but less than 60% in aggregate. A student shall be awarded third division if she/he secures marks between 40% or more marks but less than 50% aggregate.

**(ii) Reappearance in passed papers:**

1. 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 in the immediate subsequent semester examination only. The result for this paper will be revised incorporating current performance.
2. 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/s concerned, the marks previously secured by the candidate in the paper/s in which she/he has failed to re-appear shall be taken into account while determining her/his result of the examination held currently.
3. A student who reappears in a theory paper shall carry forward the internal assessment and project/practical marks, originally awarded in that paper.
4. Reappearance in a passed Innovation project paper shall not be allowed.

**(iii) Attendance Requirements**

1. For papers studied at University of Delhi, student shall have to fulfill the attendance rules of University of Delhi.
2. For papers studied at Jamia Millia Islamia, student shall have to fulfill the attendance rules of Jamia Millia Islamia

10. Amendments to Ordinance V(1), Appendix II to Ordinance V(2) and to all other relevant Ordinances of the University relating to change in nomenclature of the following undergraduate Courses. (Page No.279 of the University Calendar Volume I (2004)) (E.C. 19.7.2014).

**Amendment to Ordinance V(1)**

S. No.	Existing nomenclature of the degree	Nomenclature in pursuance of the UGC Gazette Notification
<b>UNDERGRADUATE COURSES</b>		
1.	B.B.E.	B.A.(Honours) Business Economics
2.	B.F.I.A.	Bachelor of Business Administration (Financial Investment Analysis)
3.	B.A. (Honours) Music	B.A. (Honours) Music (Hindustani) B.A. (Honours) Music (Karnatak) B.A. (Honours) Music (Percussion)
4.	B.M.M.M.C.	B.A. (Multimedia & Mass Communication) (M.M.M.C.)
5.	B.A. (Honours) Journalism & Mass Communication	B.A. (Honours) Journalism

11. Amendments to Ordinance V(1), Appendix II to Ordinance V(2) and to all other relevant Ordinances of the University relating to change in nomenclature of MBE. (Page No.281 of the University Calendar Volume I (2004)) (E.C. 19.7.2014).

**Amendment to Ordinance V(1)**

S. No.	Existing nomenclature of the degree	Nomenclature in Pursuance of the UGC Gazette Notification
1.	M.B.E.	M.A. (Business Economics)

*J. K. Das*  
**REGISTRAR**