



ADDENDUM

The following may be read as an addendum with respect to the Ph.D. Bulletin of Information 2023.

Admission to Ph.D. Programs in Faculty of Medical Sciences for the Academic Session 2023-24:

PROGRAM SPECIFIC ELIGIBILITY CRITERIA:

Department of Biochemistry					
Eligibility for Ph.D. in Biochemistry		Master's Degree or a Professional Degree (M.D. Degree in Biochemistry) main subject M.Sc. degree in Biochemistry /Medical Biochemistry or allied subjects : M.Sc. Degree in Life Sciences, M.Sc. Chemistry, M.Sc. Degree in Biosciences, M.Sc. Biotechnology, M.Sc. Genetics, M.Sc. Toxicology, M.Sc. Zoology, M.Tech. Biotechnology, M.Sc. Biomedical Sciences, M.Sc. Environmental Sciences.			
Major areas of Research in the Department of Biochemistry		Biomolecules and Physical Chemistry, Bioenergetics, enzymes, Biological oxidation, Extracellular and Intracellular messengers, Intermediary metabolism & Inborn errors of metabolism, Oxygen transporters, Heme metabolism, Nucleic acid metabolism, Gene expression and recombinant DNA Technology, Basic Immunology, Free Radical & Antioxidants in health & disease, Nutrition and Xenobiotics.			
Seat Matrix -07(VPCI-3,MAMC-4)					
UR	OBC (NCL)	SC	ST	PWD(UR)	Research Proposal is MANDATORY at the time of Registration
04	01	01	0	01	

Department of Community Medicine

Eligibility for Ph.D. in Community Medicine

Master's Degree or a Professional Degree (M.D. Degree) in the same or **allied subjects** : MD or DNB (3 yrs) in Community Medicine/SPM/PSM M.Sc. in Community Health Administration, DNB (Field Epidemiology), DNB (Family Medicine, MD (Paediatrics), MD (Obstt. Gyane), MPH (Master of Public Health) full time , from a reputed institute, M.Sc. (Statistics), MA/M.Sc (Health Economics) (Provided the supervisor is DU recognised Ph.D teacher in Community Medicine Deptt. and at least one Co-supervisor should be DU recognised teacher of Biostatistics/Health Economic), M.Sc. (Epidemiology) from a reputed Institute, M.Sc. in Population Sciences

Major areas of Research in the Department of Community Medicine

Evolution of Public Health, Epidemiology of infectious diseases, non communicable diseases, nutrition, genetics, social sciences and medicine, Basic Biostatistics, demography, environmental health, health communication, health care of community, national health mission.

Seat Matrix -04(MAMC-04)

UR	OBC (NL)	SC	ST	EWS/UR
02	01	0	0	01

Research Proposal is MANDATORY at the time of Registration

Department of Microbiology

Eligibility for Ph.D. in Microbiology

Master's Degree or a Professional Degree (M.D. Degree) in the same or **allied subjects** : MD Microbiology, M.Sc. Medical Microbiology, M.Sc. Immunology, M.Sc. Genetics, M.Sc. Cell Biology, M.Sc. Biotechnology, M.Sc. Molecular Biology, M.Sc. Microbiology, M.Sc. Biomedical Sciences, M.Sc. Applied Microbiology, M. Tech. Biotechnology, M.Sc.(Microbial Biotechnology), M.Sc (Biochemistry)

Major areas of Research in the Department of Microbiology

General Medical Microbiology, Methods in Microbiology & Biotechnology, Immunology, Cellular Fundamental Processes, Organization of structure and functions of prokaryotic and eukaryotic cells, Genetic Engineering, Biosafety and Bioethics, Biostatistics and Computational Biology, Bioinformatics.

Seat Matrix -15(MAMC-2,UCMS-1,VPCI-12)

UR	OBC (NL)	SC	ST	EWS/UR
06	05	02	01	01

Research Proposal is MANDATORY at the time of Registration

Department of Obstetrics & Gynecology.

Eligibility for Ph.D. in Obstt. & Gynecology

Master's Degree or a Professional Degree (M.D/MS. Degree) in the same or allied **subjects:** M.Sc. Zoology – (Cell biology) (Parasitological) Reproductive biology, M.Sc. Microbiology/ Biotechnology/ Pharmacology M.Sc. Embryology, M.Sc. Immunology, M.Sc. Physiology, M.Sc. Genetics M.Sc. Biochemistry, M.Sc. Toxicology/Environmental Sciences

Major areas of Research in the Department of Obstt. & Gynecology

Basics of Human Reproduction, Basic knowledge of genetics, immunology, biochemistry molecular biology &, microbiology.

Seat Matrix -02(LHMC-2)

UR	OBC (NL)	SC	ST	EWS
0	0	01	01	0

Research Proposal is MANDATORY at the time of Registration

Department of Pathology

Eligibility for Ph.D. in Pathology

Master's Degree or a Professional Degree (M.D. Degree) in the same or allied **subjects:** M.Sc. Biotechnology, M.Sc. Zoology, M.Sc. Toxicology, M.Sc. Pharmacology, Masters in Pharmacy (M. Pharm), M.Sc. in Nutrition, M.Sc./MS sports medicine, M.Sc. Drug Assay, M.Sc. Medical/Human Biochemistry, M.Sc. Medical/Human Physiology, M.Sc. Toxicology/Environmental Science

Major areas of Research in the Department of Pathology

Inflammation, Mediators of Inflammation, Cellular adaptation and types, Cell Senescence, aging, carcinoma and carcinogenesis, congenital diseases, vascular – thrombosis, embolism, shock, oncogenes, tumor suppressor genes, cell death – apoptosis/necrosis' myocardial infarction, hypersensitivity disease, autoimmune ds metastasis – route and mechanisms.

Seat Matrix -03(VPCI-03)

UR	OBC (NL)	SC	ST	EWS/ PWD (UR)
01	01	0	0	01

Research Proposal is MANDATORY at the time of Registration



Department of Pharmacology

Eligibility for Ph.D. in Pharmacology	Master's Degree or a Professional Degree in the same or allied subjects: MD (Pharmacology), DNB Pharmacology, M.Sc. Pharmacology/Medical Pharmacology, M.Sc. Toxicology, M. Pharma (Pharmacology), M. Pharm other than Pharmacology like Pharmaceutical Chemistry etc., M. VSc. (Pharmacology), MD/MS (other than Pharmacology), M.Sc. Biomedical Science, M.Sc. (Clinical Research), M.Tech/M.Sc. Biotechnology, M.Sc. in Life Sciences(M.Sc. Zoology, Microbiology, Biochemistry), M.Sc. Biochemistry, M.Sc. Genetics, M.Sc. Immunology, M.Sc. Physiology, M.Sc. Drug Assay, M.Sc Environmental Sciences										
Major areas of Research in the Department of Pharmacology	General Pharmacology, Basics of Autonomic Pharmacology, Central Nervous System, Pharmacology, Cardiovascular Pharmacology, Drugs acting on blood and blood forming organs, Renal Pharmacology, Autacoids, Reproductive Pharmacology, Endocrine Pharmacology, Chemotherapy, Drugs affecting Gastrointestinal system, Drugs affecting Respiratory system, Immunomodulators, Clinical Pharmacology, Toxicology & Pharmacovigilance Miscellaneous topics.										
Seat Matrix -02(VPCI-02)	Research Proposal is MANDATORY at the time of Registration										
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UR		OBC (NL)	SC	ST	EWS						
02	0	0	0	0							

Department of Physiology

Eligibility for Ph.D. in Physiology	Master's Degree or a Professional Degree (M.D. Degree) in the same or allied subjects : Post graduate degree in any medical speciality/life sciences & allied subjects including following streams: M.Sc. Biotechnology, M.Sc. Zoology, M.Sc. Toxicology M.Sc. Pharmacology, Masters in Pharmacy (M. Pharm), M.Sc. in Nutrition, M.Sc./MS sports medicine, M.Sc. Drug Assay, M.Sc. Medical/Human Biochemistry, M.Sc. Medical/Human Physiology, M.Sc. Toxicology/Environmental Science, M.Sc. Physiotherapy.										
Major areas of Research in the Department of Physiology	General Physiology, Blood, Nerve and Muscle Physiology, Digestive system, Cardiovascular System (CVS), Respiratory system, Excretory system, Endocrinology, Reproductive system and developmental Biology, Nervous system, Special Senses, Exercise, Yoga and Meditation Physiology, Physiology of aging, Free radical antioxidants.										
Seat Matrix – 02(LHMC-2)	Research Proposal is MANDATORY at the time of Registration										
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UR		OBC (NL)	SC	ST	EWS						
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Department of Pulmonary Medicine

Eligibility for Ph.D. in Pulmonary Medicine

Master's Degree or a Professional Degree (M.D. Degree in Biochemistry) main subject M.Sc. degree in Biochemistry /Medical Biochemistry or **allied subjects:** M.Sc. Degree in Life Sciences, M.Sc. Chemistry, M.Sc. Degree in Biosciences, M.Sc. Biotechnology, M.Sc. Genetics, M.Sc. Toxicology, M.Sc. Zoology, M.Tech. Biotechnology, M.Sc. Biomedical Sciences, M.Sc. Environmental Sciences.

Major areas of Research in the Department of Pulmonary Medicine

Basic anatomy of the airways and the lungs, Blood supply and venous drainage of lungs.

Properties of gases, Mechanics of respiration, Regulation of respiration., Arterial blood gas analysis and interpretation, Pathology of the respiratory system, Obstructive lung diseases including asthma and COPD, Chest wall disorders, Infective including Tuberculosis, Malignancies, Introduction to Biostatistics & Research Methodology, Equipment – Pulse oximeters, ABG machines, Spirometers, Nebulizers-ultrasonic and jet, Polysomnography systems, Bronchoscopy, Basic ICU practices, Oxygen delivery devices for different patients with cardiopulmonary diseases, Ventilators-Non Invasive & Invasive.

Seat Matrix -03(VPCI-03)

UR	OBC (NL)	SC	ST	EWS
02	01	0	0	0

Research Proposal is MANDATORY at the time of Registration

VPCI-Vallabhbhai Patel Chest Institute
MAMC-Maulana Azad Medical College
LHMC-Lady Hardinge Medical College

This has been issued with the approval of the Competent Authority.

[Signature]
24/7/23
Dean (Admissions)