

Ph.D. (Public Health -
Neurosciences)
Prospectus 2021



**DAYANAND MEDICAL COLLEGE & HOSPITAL
LUDHIANA**



STATE OF THE ART - CANCER CARE CENTRE



COLLEGE OF NURSING

ओउम् भूर्भुवः स्वः

Aum Bhuur Bhuvah Svaha

तत्सवितुर्वरेण्यं

Tat Savitur Varenyam

भर्गो देवस्य धीमहि

Bhargo Devasya Dheemahi

धियो यो नः प्रचोदयात् ॥

Dhiyo Yo Nah Prachodayaat

Thou O Supreme Lord,

The Source of Existence, Intelligence, and Bliss,

The Creator of the Universe !

May we prove worthy of Thy choice and acceptance !

May we meet Thy glorious grace !

*May Thou vouch safe an unerring guidance to our intellect
and*

May we follow Thy lead unto righteousness !

Invocation

*Sarve Bhavantu Sukhinah !
Sarve Santuniramaya !
Sarve Bhadrani Pasyantu !
Ma Kaschit Dukha Bhag Bhavet !*

*May All Live Happily !
May all Enjoy Good Health !
May All See Auspiciousness !
May None Experience Distress !
May Peace Prevail Everywhere !*

TEN PRINCIPLES OF ARYA SAMAJ

- God is the ultimate source of all true knowledge and of the objects that are known by its means.
- God is existence, intelligence and the Sat-Chit-Anand. He is formless, almighty, just, merciful, unborn, infinite, unchangeable, beginningless, incomparable, the support and Lord of all, all pervading, omniscient, imperishable, immortal, exempt from fear, eternal, holy and the Maker of the Universe. To Him alone worship is due.
- The Vedas are books of true knowledge. It is the paramount duty of all Aryans to read them and to teach them, to hear them, to read and to read them to others.
- We would always be ready to accept truth and renounce untruth.
- All actions should be done in conformity with Dharma after due consideration of right and wrong.
- The primary aim of the Arya Samaj is to do good to all mankind i.e. to promote their physical, spiritual and social welfare.
- We should treat all people with affection and justice and with due regard to their merits.
- We should aim at dispelling ignorance and promoting knowledge.
- No one should remain satisfied with his own welfare. He should regard his welfare as a part and parcel of the welfare of all.
- In matters which affect the well-being of all, a person should give a subordinate place to his likings. In matters which affect him alone, he is to enjoy freedom of action.

FROM THE MANAGING SOCIETY

DMCH is a 1625 bedded NABH accredited, non-aided, not-for-profit charitable Institution and one of the largest hospitals in the country, providing/promoting healthcare to the people. We have an OPD of 3000 patients per day and the patients come from various states such as Punjab, Haryana, J & K, Himanchal Pradesh, Rajasthan etc. More than 80% of the patients, coming to our institution are from rural areas and economically weaker sections of the society.

DMCH started its path in 1934 and bloomed into full-fledged tertiary care teaching hospital in North India presently treating over 1100 patients per day. The institution is well equipped with state of art facilities for medical care and for the investigations, manpower strength of about 5000, of which more than 450 are doctors and super specialists including DM & MCh doctors. It is registered under Societies Registration Act, 1860 and is managed by a society, as a non-profit making institution. The hospital is having all major specialities with state-of-art investigations facilities.

DMCH is the most preferred Medical College by medical and nursing students in Punjab. 100% admissions are merit based and are through the Baba Farid University of Health Sciences. We have Post Graduate course in 19 specialities and Post Doctoral DM/MCh Courses in 9 Specialities and M.Phil (Clinical Psychology). We have started many new services for patients in recent times few of them are as : A state of Art Cancer Centre, Bone Marrow Transplant, Hypertension Clinic, Internal Pharmacy, IVF Centre, Liver Transplant, Emergency Medicine Department, Critical Care Medicine Department, Genetic Lab, State-of-Art dietary services, PET CT and Radiotherapy facilities. NABL accredited lab for testing COVID-19.

To boost Medical Research, DMCH has set-up its own Research & Development Centre.

Dayanand Medical College & Hospital utilizes its funds for charity and promoting Healthcare and Education for the weaker sections of the society. Some of the prime areas we are already into exemplary charity, are Cancer treatment, Thalasemia patients, Cardiac patients and Knee replacement.

PRESIDENT - DMCH MANAGING SOCIETY

Name	From - To
Mr. Hans Raj Dhanda (Founder President)	25.08.1964 - 14.09.1974
Mr. Brijmohan Lall Munjal	15.09.1974 - 31.03.2007
Mr. Sunil Kant Munjal	01.04.2007 till date

SECRETARY - DMCH MANAGING SOCIETY

Name	From – To
Mr. Jagdish Lal Behal (Founder Secretary)	25.08.1964 – 10.09.1967
Mr. Inder Pal Dhir	11.09.1967– 13.03.1979
Mr. Prem Nath Gupta	14.03.1979 – 18.07.2002
Mr. Amrit Nagpal	01.04.2003 – 30.09.2004
Mr. Prem Kumar Gupta	01.10.2004 till date

PRINCIPAL - DAYANAND MEDICAL COLLEGE

Name	From – To
Dr. R. P. Sharma (Founder Principal)	05.10.1964 – 11.05.1966
Dr. R. C. Khanna	12.05.1966 – 30.05.1969
Dr. N. Dube	31.05.1969 – 31.12.1985
Dr. L. S. Chawla	01.01.1986 – 31.08.1994
Dr. S. B. Khurana	01.09.1994 – 30.11.1998
Dr. S. C. Ahuja	01.12.1998 – 31.08.2003
Dr. Daljit Singh	01.09.2003 – 30.11.2014
Dr. Sandeep Puri	01.12.2014 till date

MANAGING SOCIETY (OFFICE BEARERS)



Sh. Sunil Kant Munjal
President



Sh. Amrit Nagpal
Vice President



Sh. Gian Chand Dhawan
Vice President



Sh. Sudershan Sharma
Vice President



Sh. Prem Kumar Gupta
Secretary



Sh. Rajesh Sood
Joint Secretary



Sh. Satish C. Sanwalka
Treasurer

FROM THE DESK OF THE PRINCIPAL



Dear Applicant,

I am very pleased to welcome you on behalf of Dayanand Medical College & Hospital (DMCH), Ludhiana.

Excellence in medical education cannot be attained without strengthening the quality and commitment of the teachers and other staff. At DMCH, we are proud to have more than 190 experience and renowned faculty members. We consider it our solemn responsibility to provide a learning teaching environment that is second to none. The college campus is state of art having well equipped lecture theatres with multimedia projectors, well equipped laboratories and exposure to a vast number of patients enable our students to become skilled in all facets of medical research.

The institute offers MBBS course, MD/MS courses in 19 specialities (87 seats), DM/MCh courses in 9 specialities (19 seats), B.Sc. & Diploma Paramedical courses and M.Phil. in Clinical Psychology course. It is worth mentioning that no other medical college in Punjab or the adjoining state has this privilege of imparting postgraduate medical education in so many disciplines.

The Heart Institute, State of the Art Cancer Centre, Research and Development Centre and an ultra modern Nursing College are the feathers in the cap of this NABH accredited institution. I sincerely hope that as our students pass out, they will not be found wanting in the role as health care team and more importantly as compassionate human beings. It has always been our endeavour to instill strength and character in the students so that they are able to take up the role of future guardians of health and support the medical fraternity in research and public health.

I would like to wish you every success in future and hope that you will cherish every moment of the years during your Ph.D. training.

May God bless you!

Dr. Sandeep Puri
Principal

FROM THE DESK OF THE DEAN ACADEMICS



Dear Applicant,

Ph.D. in Public Health – Neurosciences has been started as a part of project “Scaling-up The Competency of Primary Care Workers to Manage Epilepsy by Task-Sharing (STOP-Epilepsy)” under the support of DBT-Wellcome Trust India Alliance. This project will help to look into the public health aspects of Neurosciences including epilepsy.

This opportunity will help the researchers to not only answer the research questions drafted from the various hypothesis generated during the course of this project and at the same time it will give them an opportunity to get their Ph.D. in Public Health. This unique opportunity will provide training on the job and students will learn about the research methodology, public health concepts as well as neurosciences. Epilepsy and other neurological disorders are very debilitating and have severe impact on family mental health and financial health. This opportunity will spin off research in many areas and dimensions like quality of life, medication usage, social aspects, substance abuse and personal issues etc.

This unique program is first of its kind which will take Postgraduates from various specialities like Public Health, Medicine, Paediatrics, Pharmacology and Physiology. The Ph.D. program will run for a minimum of 3 years under the aegis of Baba Farid University of Health Sciences, Faridkot and will open new avenues for students who want to go beyond the normal postgraduate courses and do quality research.

We welcome you to this new endeavour and expect that the course will meet your expectations and help you to make a mark in public health and policy.

Dr. Sandeep Kaushal
Dean Academics

MEDICAL ADMINISTRATORS

Designation	Name	Phone Nos.	Cell Nos.
Principal	Dr. Sandeep Puri	4687501	9815545314
Vice Principal	Dr. G.S. Wander	2304282 Ext. 381	9815545316
Dean Academics	Dr. Sandeep Kaushal	4686613	8146545367
Medical Supdt.	Dr. Ashwani K. Chaudhary	4687504	9814150004
Addl. Medical Supdt.	Dr. Sandeep Sharma	4687505	9815500929
Addl. Medical Supdt. HDHI	Dr. Bishav Mohan	2304282 Ext. 382	9876741158

ADMINISTRATIVE STAFF

	Name	Phone Nos.	Cell No.
Hostel Supdt. (PG)	Dr. Anju Grewal	4687655	9815482626
Finance Department	Mr. Umesh Gupta	4687522	9815545313
	Mr. Munish Kalia	4687569	9779090660
	Mr. Rakesh Kapil	4687561	9779805012
Administrative Office	Ms. Anuradha Langar	4686618	9815800889
	Mr. Vijay Kumar Gupta	4686632	9815500646
	Mr. Alok Samwal	4686632	9803038080
Law Department	Mr. S. S. Saini	4687563	9872637100
	Mr. Abhishek Pal Singh	4687563	7696694454

CONTACT INFORMATION

Principal office	0161-4687501
EPABX	0161-4687777, 4687700,4688800
Fax	0161-4687655
Website	www.dmch.edu
Hostel (PG)	01614687656
Office Hours	08:30-04:30 h(Lunch : 01:30-02:00h) (Except on holidays)
Admission Enquiry	0161-4686632 (9:00 AM - 04:00 PM) (on all working days)

ABOUT DAYANAND MEDICAL COLLEGE AND HOSPITAL

DMCH extends a warm welcome to the students entering the new academic year. We hope that the unique learning experience and ambience at DMCH will unlock potentials and help you achieve your dreams. We wish you the very best.

Introduction:

- A devoted personality, Dr. Banarsi Dass Soni, Ex. Capt. I.M.S., with a missionary zeal for medical education and patient care, conceived the noble idea of providing the much-needed medical care to the general public.
- This bloomed in the form of Arya Medical School in 1934. It was started in a rented building in Civil Lines, Ludhiana and admission was limited to only 20 students.
- The Medical School was recognized for Licentiate of State Medical Faculty (LSMF) in 1938 and also for the running hospital attached to it. The following year, the Managing Body decided that the Ludhiana Medical School should, in future, be called "Arya Medical School" and the hospital attached to it "Dayanand Hospital".
- In 1964, consistent with the policy of the Government, Arya Medical School flowered into a full-fledged MBBS College, which came to be known as 'Dayanand Medical College.' The management of this college was taken over by a galaxy of prominent people of Ludhiana, who formed an organization known as the "Managing Society of Dayanand Medical College & Hospital, Ludhiana", and Late Shri H.R. Dhanda, a prominent industrialist of the town, became its Founder-President.
- The college has come a long way, retaining its unique character, still marching ahead with the times and is upgrading itself dynamically in all its fields of activities. DMCH has been ranked among the top 25 medical colleges of the country by the National Institutional Ranking Framework (NIRF), Ministry of Human Resource, Govt. of India. 'Hansa The Week Survey' ranked the institution 1st in Top Private Colleges of North Zone and 19th in Top Medical Colleges of India. 'India Today' magazine ranked DMCH 28th in Best Colleges of India. 'The Career 360' ranked 10th in Top Medical Colleges of India and the 'Outlook' magazine ranked DMCH 24th in Top Medical Colleges of India.
- In the year 2006, DMCH reached a new dimension with the introduction of superspeciality courses in Cardiology, Gastroenterology and Plastic Surgery which was first in the state of Punjab. Today, besides running MBBS and MD/MS courses in 19 specialities, the institution offers, 9 DM/MCh and 23 BSc/Diploma Paramedical courses.
- In 2016, the MBBS Seats have been increased from 70 to 100 per year.
- **DMCH is among the five NABH accredited Medical Colleges in the country and first in North India.**
- Hero DMC Heart Institute, a unit of DMCH is a renowned centre for tertiary level cardiac care providing all types of interventional and surgical procedures did largest number of procedures for congenital heart disease under NHRM.
- Since its inception, the institution has produced about 3200 graduates and 2200 post graduates (including super specialist). The students and faculty have constantly strived for academic excellence, state-of-the-art health care provision, and high quality research competing with the best in the country. All the departments of the hospital are equipped with modern facilities to provide tertiary level health care services to the people of region.

A continuous emphasis on modern teaching methods, global links for research, student exchange and knowledge sharing, world class infrastructure, placement, diversity of students

and institute interactions have consistently placed DMCH students well ahead in every field. Infrastructure Highlights with Research, Development And Innovation:

- The college is recognized for the MBBS Course by the Medical Council of India (MCI) and is affiliated to the Baba Farid University of Health Sciences (BFUHS), Faridkot.
- With modern lecture halls having air-conditioned interiors, auditorium, seminar rooms, and labs with projector and A-V system, DMC can boast of 'smart classrooms' which very few medical institutions across the country have.
- The college is also affiliated to the Baba Farid University of Health Sciences, Faridkot for postgraduate courses in almost all the branches.
- The institution also imparts training for D.M. Courses in Cardiology, Gastroenterology, Neurology, Nephrology and M.Ch. Courses in Plastic Surgery, CTVS and Neuro Surgery.
- DMCH is the institution having a state of art Intensive Care Units (ICUs). A new block has been set up which houses Medical ICU, Pulmonary ICU, Stroke ICU, Pediatric ICU, Surgery ICU, Emergency ICU, Trauma ICU and Neurosurgery ICU. Other important ICUs are Intensive Cardiac Care Unit (ICCU), Burns ICU in DMCH and Cath ICU and ICCU in Hero DMC Heart Institute.
- The emergency services at DMC&H are exceptional with facilities for triaging, isolation rooms, special Intensive Care Units and emergency operation theaters with recovery.
- Hero DMC Heart Institute (HDHI), with 171 beds, became operative in April, 2001 and has the state of the art investigative and treatment facilities. The Institute has already performed more than 65,003 catheter laboratory procedures and 12,174 O.T. procedures.
- Safe blood and blood products are available at DMCH as all these products are screened by Nucleic acid Testing (NAT) for HIV and Hepatitis since 2012. It is the First and only institution in the state of Punjab to do this test for all blood donations.
- NABL accredited lab for the RTPCR based testing of COVID-19.
- A State of Art Cancer treatment unit has been setup with Radiotherapy Unit and PET Scan in 2017.
- DMCH College of Nursing is one of the most modern and well-equipped Nursing Colleges of Punjab, with excellent on-job training on a sprawling campus at Malikpur. It imparts training for B.Sc. in (Nursing) and M.Sc. (Nursing).
- The institution has well-developed urban and rural health care delivery systems, with residential facilities for training of students and interns under the department of Community Medicine. Models for health care delivery and Community Oriented Learning have been developed in these areas in addition to research on community health problems. These have been widely acknowledged.
- Wi-Fi enabled hospital to provide wireless access to doctors.
- Bus Transport facility to connect college & hospital.
- Besides this the institution offers community based activities, health education activities, Ambulance services and free services to poor patients,
- Recently Research and development wing has been started in the hospital to enhance the research activities among students & faculty.
- The citizens of Ludhiana and other places have always been kind in extending their helping hand in building up this institution. Above all, the Central and State Governments and many dignitaries deserve gratitude for their co-operation and interest in the development of the College and the Hospital. This institution has come up by the sheer dint of hard work and sincere efforts of the management, faculty and staff.

The faith and patronage of the patients from Punjab and adjoining states has contributed in making DMCH as one of the premier medical institutions.

Today, DMC is one of the most preferred, highly recognized and top ranked COLLEGE in India.

Campus life-Stay In Style:

- You will find convenient accommodation right inside the campus.
- **Hostel** : Hostel is available for Girls students.
- **Computers** : All departments are provided with computers. Internet facilities are available in the college central library and departments.
- **Library and Reading Rooms** :The library has more than 16000 of text and reference books and subscribes to many e-Journals, National and International Journals. Internet and Medline facilities are available for students and faculty.
- **Sports** : Facilities for Volleyball, Basketball, Table Tennis, Badminton, Carom and Chess are available. Both hostels have well equipped gymnasium.
- **Bank** : HDFC Bank branch operates on the campus. There is also ATM facility by the Bank on campus.
- **24-hour café** - ideal during late night study
- Pleasant study halls
- Round-the-clock security.

Life Beyond Studies - Festivals on campus enrich the social, cultural and educational experience of students. The pressures of a highly demanding curriculum can get to even the best of students. This is the time for you to mix with other students in the same boat. It provides an exciting and stimulating environment filled with fun and relaxation.

• ***Co-curricular / Cultural & Sports Activities:***

- ECTOPIA: Annual interbatch cultural competition ECTOPIA started in the year 2002. It gives relaxation to students and provides a platform to enhance their extracurricular skills in music, dance & dramatics.
- NOZIT: North Zone Intermedical & Dental College Sports Tournament is organised by DMCH at regular intervals
- SMASH: Annual Athletic meet and sports competition is organised by DMCH sports competition occurs between students of all batches.
- Magazine: DMC Capsule & DMC Scan regularly circulated among residents & faculty and medical fraternity highlighting all activities & encouraging students.
- Annual Alumni meet is regularly organised where the past students meet & relish their glorious past at DMCH twice a year.

SPECIAL PATIENT CARE FACILITIES AND SERVICES

Anaesthesiology

Digital Anaesthesia Work Stations, Ultrasound guided Regional Anaesthesia techniques, Patient controlled analgesia, Acute and Chronic Pain Management Services, Round the Clock Resuscitation Services, Critical Care.

Cardiology

Echo, TMT, Carotid Doppler Coronary, Renal, Cerebral, Peripheral Angiography and Angioplasty Single Chamber, Dual Chamber and Biventricular Pacemaker

Cardio Thoracic Vascular Surgery (CTVS)

Beating Heart Surgery, Valve Replacement, Adult Congenital Surgery, Aneurysmectomy and Reduction Ventriculoplasty

Dental

Specialized Bridge Work, Implantation, Orthodontics

Dermatology

Radiofrequency Ablation, Allergy Testing, Cryotherapy, Full Body PUVA Unit, Blend technique for hair removal, Punch Grafting, Latest Chemical Peels, Skin biopsy, Pulse therapy for vesiculobullous & collagen disorders.

Ear, Nose, Throat

Microsurgery of Ear, Endoscopic Surgery of Nose and Sinus, Microsurgery of Larynx, Head & Neck Surgery, Speech therapy and Hearing Rehabilitation Services, Vestibular Services and Vertigo Assessment.

Endocrinology

Intensive Control of Diabetes & Hormonal Disorders

Gastroenterology

Endoscopy, Colonoscopy, ERCP, Double Ballon Enteroscopy, Capsule Endoscopy, High Resolution Manometry with Impedance, Argon Plasma Coagulation (APC) Esophageal PH Metery, Fibroscan, Malabsorption Tests.

General Medicine

Critical Care Unit & Medical ICU, Rheumatology Service, Emergency Medicine Services, HIV Clinic, HDU.

General Surgery

Laparoscopic Surgery, Surgical ICU, World Class Modular OT's

GI Surgery

Specialised Surgery of Hepato-Biliary, Pancreatic, Digestive Tract & Liver transplant care.

Immunohaematology & Blood Transfusion

Enhanced Chemiluminescence Immunoassay (Virtros Eci) and 4th Generation Elisa, Gel Technique, Single Donor Platelet & Plasma Apheresis, Therapeutic Plasma Exchange Cryoprecipitate and Washed RBCs.

Liver Transplant Unit

Multi visceral Organ Transplant (including Liver)

Nephrology

Haemodialysis/CAPD, Continuous Venovenous Dialysis (CV VH & CVVHD)

Neurology

Stroke ICU, NCV/EMC, Digital EEG, EEG Telemetry, Tilt Test, Neuropsychology, Neuro-Rehabilitation.

Neurosurgery

Transphenoid Excision of Pituitary Tumor, Spinal Instrumentation, Micro Discetotomy, Artificial Cervical Disc Replacement.

Obstetrics & Gynecology

Laparoscopic & Hysteroscopy Gynae Surgery, Non descent vaginal hysterectomy, Infertility Treatment, HPV/Pap Smear/Colposcopy with LEEP for Cancer Cervix, Institutional Free Family Welfare Services, Free normal vaginal delivery for poor patients, IVF and assisted reproduction.

Oncology

Day Care Services

Orthopaedics

Spine Surgery for fixation with Rods and Plates, Arthroplasty for Hip, Knee, Shoulder & Elbow Replacement Comprehensive Diabetic Foot Management Congenital Deformity Correction.

Ophthalmology

Advanced Vitreoretinal Surgeries, Phaco, Glaucoma & Squint Surgeries, Medical Retina & Lasers, Photo Dynamic Therapy, Computerised Perimetry, Corneal Grafting, Digital FFA.

Pathology/Microbiology/Biochemistry

Complete automated Biochemistry Lab., Radio Immunoassay Lab, Automated Haematology Services, IMX, Automated Electrophoresis, Advanced HIV Lab, Bactec Culture Facility, PCR, Automated Haematology Services, Automated Coagulation Profile and Electrophoresis along with immunofluorescence and immunohistochemistry facilities, Automated ELISA Facility, Fluorescent Microscopy, Flowcytometry

Pediatrics

Advanced Nursery Care with ultra modern facilities, Well equipped Pediatric ICU, Pediatric Haemato Oncology Section. Speciality Clinics : Child Welfare Clinic, Gastroenterology Clinic, Asthma Clinic, Epilepsy and Cerebral Palsy Clinic, Clinic for adolescents & behaviour disorders in children.

Pediatric Surgery

Specialised Surgery of Neonates

Plastic Surgery

Cosmetic, Hand & Reconstructive Surgery, Peripheral Vascular Injury, Facio Maxillary Trauma, Laser Therapy and Burns ICU.

Psychiatry

De-addiction, Child Psychiatry, Family & Marital Counselling

Pulmonary Medicine

Pulmonary Critical Care Unit, Pulmonary Lab (PFT), Bronchoscopy Sleep Lab, NIV Unit, DOTS-Tuberculosis Centre.

Radiodiagnosis

1.5 Tesla MRI scan, 128 Slice CT scan, 2-D, 3-D & 4-D Ultrasound, Colour Doppler, DEXA Bone Densitometry, Digital X-Ray & Mammography, Interventional Radiology Procedures, SPECT.

Surgical Oncology

Specialised Cancer Surgery.

Trauma

State of art services for multiple injuries.

Urology

Endourology, PCNL, Oncourology, ESWL, Renal Transplant

Charges to be paid at the time of admission:

Fee Head	Amount
BFUHS Registration Fee (one time)	₹5,000/-
BFUHS e-journal Fee (annual)	₹2,000/-
DMCH Laboratory Fee (annual)	₹20,000/-

Particulars for transferring funds/amount in HDFC Bank Saving A/c

1. Name of the Account Holder (As Per Bank Account)	M/s DMC and Hospital Managing Society
2. Bank Name	HDFC Bank Ltd. DMCH Branch, Tagore Nagar, Civil Lines, Ludhiana-141001 (Pb.)
3. Full Bank Account Number	50100277444511
4. MICR Code	141-240-046
5. Swift Code	HDFCINBBXXX
6. IFSC Code	HDFC0009448
7. PAN	AAATD0732A
8. TAN	JLDD01026E
9. GST No.	03AAATD0732A1ZR

Nostro Account for US Dollar

Beneficiary Name : DMC and Hospital Managing Society, Ludhiana, Punjab, India
Beneficiary Account Number : 00341450000579
Beneficiary Bank Name : HDFC Bank Ltd.
Beneficiary Bank Address : 1st Mall, Lower Ground, The Mall, Ludhiana, Punjab, India
Beneficiary Bank Swift Code : HDFCINBBXXX

Intermediary Bank Name and Address : JP Morgan Chase, New York, USA
Intermediary Bank Account Number : 001-1-406717
Intermediary Bank Swift Code : CHASUS33

PH.D. IN PUBLIC HEALTH – NEUROSCIENCES

The aim of this program is to skill train doctors in public health research and public health researchers in neurosciences so as to further public health research in relation to neurological disorders. To fulfil their training needs, the program has been designed based on assessment of their training needs through perusal of published literature and targeted assessments. The domains, learning objectives and content will emphasize public health aspects of neurological and mental health disorders commensurate with the expertise of the PI/CoPIs and added cross-disciplinary inputs from the named experts in the project. The Doctoral program(s) are available at AIIMS and DMCH. The Research Fellows / Senior Research Fellows would be encouraged to apply for these. Standard university and institutional policies and protocols will be followed in assessment and evaluations. Participating institutes have in place generic research training modules inclusive of but not limited to GCP compliance, safety, research ethics and networking skills. The research scholars will not work in silo but as an integral part of current research programs being at the collaborating institutions to be sustainable beyond project timelines.

Purpose: To mentor and build capacity in four early career of research scholars from non-public health background, in public health research.

Eligibility: Master in Public Health or M.D. (Social & Preventive Medicine / General Medicine / Paediatrics / Pharmacology / Physiology)

Duration: 3 to 4 years

Funding: The program is fully funded by the DBT/Wellcome Trust India Alliance.

Selection procedure: The selection will be done purely on the basis of combined merit of entrance examination and subsequent interview to be conducted by the institution under the observation of Baba Farid University of Health Sciences, Faridkot. The schedule of entrance examination is announced through institute's website

Activities: The research scholars will work in various studies conducted within the Clinical Research Centre (CRC), associated projects in mental health and neurology in the partnering institutes. At the beginning of the program, mentors in the CRC will assist the research scholars to create their own personal career development plans following which the research scholars will assess their training needs and create individualised capacity building frameworks. Existing training programs and

resources at the partnering institutes will be made available to the scholars / fellows to meet their training needs. Mentorship of the research scholars will be an ongoing process and will involve the usual practice of a mentorship programme where the expectation is that the mentees drive the program and mentors provide advice to the mentees to improve their career goals. Research scholars willing to pursue doctoral training or additional training or courses will be encouraged to do so provided they have the resources and time commitment planned out. The mentors will facilitate the process by identifying and discussing suitable opportunities with the fellows.

Training programs and resources: The George Institute for Global Health (GIGH) has developed an online research training program that will be made available to the scholars / fellows. A clinical trial training program is also being developed which will be made available. GIGH partners with Manipal Academy of Higher Education on a Leadership in Public Health certification course. The research scholars can enrol themselves in the course after meeting the course fees. Additionally, if the research scholars would like to be guided in a special research area by GIGH researchers across the regional offices (Sydney, UK, China), they can spend 3-4 weeks of their fellowship period at the overseas office (this overseas visit and expenses will be borne by the research scholars). They have to do compulsory Ph.D. Coursework conducted by Baba Farid University of Health Sciences, Faridkot.

Outputs: At the end of the program, the research scholars will be assessed on submission of:-

- A personal career development plan
- A completed short research project that is embedded within the overall design of the STOP Epilepsy programme but can build on it. Projects needing additional data collection or resources will have to be funded by the candidates through mechanisms that are outside the STOP Epilepsy programme, through additional small grants or fellowships.
- A grant application drafted on a public health research area, that can be submitted by them to a funding agency
- A manuscript drafted by them on their research project.

CURRICULUM FOR PH.D. / CLINICAL RESEARCH TRAINING PROGRAM

Physician Researcher Competencies & Learning Objectives

A. Ph.D. Coursework as per BFUHS, Faridkot.

B. In addition to BFUHS Ph.D. Coursework, the research scholars will undergo the training in 4 Domains, 12 Competencies and 82 Learning Objectives as listed below:

1. Generic Research

1.1. Understand principles behind clinical research?

1.1.1. Demonstrate working knowledge of different research methods.

1.1.2. Demonstrate working knowledge of research ethics.

1.1.3. Demonstrate working knowledge of research-related work flow.

1.1.4. Demonstrate working knowledge of career pathways in clinical research.

1.2. Demonstrate working knowledge of data handling.

1.2.1. Demonstrate working knowledge of data entry, management and presentation.

1.2.2. Recognize data glips and understand the basics of data integrity.

1.3. Demonstrate working knowledge of data-analysis.

1.3.1. Demonstrate working knowledge of statistical approaches to data.

1.3.2. Demonstrate working knowledge of statistical tests using available statistical softwares.

1.4. Demonstrate working knowledge about clinical trials.

1.4.1. Understand thoroughly what it means to work within the ICH-GCP.

1.4.2. Ability to identify adverse effects and put up protocol violations.

1.4.3. Working knowledge of various types of clinical trials.

1.4.4. Develop the ability to conceive trial hypothesis and work towards to developing trial protocols.

1.4.5. Interpret clinical trials.

1.5. Demonstrate abilities to write and present research communications, reports and grants.

1.5.1. Demonstrate the ability to write a research paper and abstract.

1.5.2. Acquire the ability to write a research protocol or grant including budgets and requirements.

1.5.3. Demonstrate the ability to make effective and influential presentations.

1.5.4. Demonstrate ability to communicate research findings to lay people and policy-makers.

2. Neurological Disorders

2.1. Understand the guiding principles of basic science as related to neurological disorders.

2.1.1. Theoretical knowledge of neuro-anatomical, physiological, pathological and pharmacological basis of neurological disorders.

2.2. Ability to perform standard neurological evaluations.

2.3. Demonstrate ability to manage common neurological disorders.

2.3.1. Working knowledge of the pharmacological principles of treatment of neurological disorders.

2.3.2. Provide guidance regarding the treatment, self-management and care pathways of common neurological disorders.

2.3.3. Educate people on the prevention of common neurological disorders.

3. Mental Health Disorders

3.1. Ability to perform standard psychiatric evaluations

3.2. Demonstrate ability to manage common psychiatric disorders.

4. Public Health

4.1. Demonstrate working knowledge of public health aspects of neurological/mental health disorders.

4.1.1. Demonstrate working knowledge of the available tools and scales for screening or evaluating communities for neurological and mental health disorders.

4.1.2. Ability to provide guidance for management of common neurological and mental health disorders in the community setting.

4.1.3. Communicate to the patient and caregivers the preventive aspects.

4.2. Demonstrate working knowledge of population-based interventions for common neurological and mental health disorders.

4.2.1. Ability to engage primary health care providers at all levels to provide neurological care.

4.2.2. Ability to develop advocacy campaigns for common neurological and mental health disorders.

4.2.3. Lobby with policy-makers and administrators to effectively implement public health programs in relation to neurological and mental health disorders.

4.2.4. Demonstrate working knowledge of the economic analysis and implication of neurological and mental health interventions in communities.

4.2.5. Develop effective health communication tools and campaigns for the media and lay public.

	Full name and address of the institution	Head of the institution (full name along with designation)
Lead Institution*	Dayanand Medical College & Hospital, Ludhiana, 141001, Punjab, India & UCL Institute of Neurology, Queen Square, WC1N 3BG, London, UK	Prof. Sandeep Puri, Principal
Participating Institution (1)	George Institute for Global Health India, New Delhi – 110025, India	Prof. Vivekanand Jha, Executive Director
Participating Institution (2)	All India Institute of Medical Sciences, New Delhi 110029 India	Prof. Randeep Guleria, Director
Participating Institution (3)	Department of Communication, University of Hyderabad, Hyderabad, 500046, Telangana, India	Prof. Basuthkar Jagadeeshwar Rao, Vice Chancellor

"Ordinances for
Ph.D. programme
in the Faculty of
Medical Sciences at
**Baba Farid University of
Health Sciences, Faridkot**"

Minutes of the 31st meeting of the Board of Management held on 25.02.2011 at 11.00 a.m. at Baba Farid University of Health Sciences, Faridkot.

61. **RESOLVED:** To ratify the orders of the Vice-Chancellor, on the recommendations made by the Academic Council in its meeting held on 23-12-2010 vide para-27 vide which he subject to and in anticipation of the approval of the Board of Management, approved the Revised Ordinances for Ph.D. programme in the Faculty of Medical Sciences applicable w.e.f. June session 2010, be approved (**Pages 559 to 587 of Appendices**).

**Proposed Amendments to the Ordinances Governing Ph.D. Degree
under the Faculty of Medical Sciences of Baba Farid University of Health
Sciences, Faridkot (Punjab) 151 203, INDIA.**

Revised
in Ordinance
Proposed Amendment and Addition if any *in*
AS-12

Ph.D. in Faculty of Medical Sciences

General Information and Guidelines

1. Application for provisional registration for Ph.D. Degree can be submitted on prescribed provisional registration proforma, accompanied by requisite fee to the University at any time of the year.
 - 1.1 The University will hold an entrance examination for the Ph.D. Programme usually in the month of January and July of each year.
 - 1.2 The successful candidates will be required to submit their regular application through their Supervisor(s) for regular registration to Ph.D. programme alongwith the requisite fee and documents supporting the application.
2. The candidate should be registered with Baba Farid University of Health Sciences, Faridkot and if not already registered, he/she should do so by producing migration certificate from the previous University, where he/she was registered earlier.
3. On receipt of the regular application for registration for Ph.D. degree along with the requisite fee, the University authorities will send the case of the candidate (if found fit), to the Application Screening Committee, hereinafter ASC, as specified in the concerned Ordinances.
4. The candidate should present by power point projection his/her proposed research topic before the ASC on the date and place given by the concerned Head of the Department in consultation with the Supervisor(s) of the candidate.
5. The ASC after interviewing the candidate and satisfying itself as to the topic of research and the synopsis, shall recommend the case to the Research Degree Committee (hereinafter RDC) as provided for in the concerned Ordinances with the following certificate duly signed by all the members:-
 - i) The title and synopsis are original
 - ii) The synopsis addresses important issues relevant in context of present scenario.
 - iii) The candidate has the aptitude to pursue research for Ph.D. degree.
 - iv) According to the best of our knowledge and belief/website information available to us the research work is original and no body has done research on the same topic earlier. (An affidavit should be given by the candidate).
 - v) The research proposed to be undertaken will, in our opinion, be qualitative and give a valuable contribution to knowledge.

6. The candidate will then prepare the specified number of copies of Synopsis for discussion in the RDC.
7. The RDC may accept or reject the synopsis or it may suggest modifications in the synopsis and reconsider the modified synopsis in the next meeting. (All rights are reserved with Research Degree Committee).
8. When the synopsis is approved (as such or after necessary modifications), the RDC will send the case for Ph.D. registration to the Faculty of Medical Sciences with a detailed note about the research proposal etc. along with a CD-ROM of the Synopsis (to be provided by the candidate).
9. That the candidate will submit 30 copies of his/her approved synopsis along with CD-ROM of his/her approved synopsis through the RDC to the University.
10. The Faculty of Medical Sciences will take the final decision about the Ph.D. registration.
11. During the period of registration for Ph.D., the candidate will pay all the specified dues from time to time, as applicable, to the University and the Head of the Department concerned will ensure that all dues are paid by the candidate.
12. The candidate will have to submit his/her half yearly progress reports during the period of registration for Ph.D. degree through the Supervisor/Head of the Department.
13. The candidate will have to present his/her research findings in the form of a Seminar every year in the department concerned where all research scholars and Faculty Member of the concerned department are present.
14. A pre-submission seminar will be delivered by the research scholar before submission of his/her thesis for Ph.D. degree.
15. A summary report of research project for Ph.D. degree will be submitted to the University before submission of thesis for processing appointments of examiners for evaluation of the Ph.D. thesis.
16. The research scholar can seek guidance for preparing half yearly reports, pre-submission report, thesis etc from the forthcoming booklet of this University.
17. A research scholar can submit his/her thesis, as specified in the Ordinances, at the end of his/her registration period for Ph.D. degree.

Doctor of Philosophy (Ph.D.)

(A) FOR MEDICAL SUBJECTS

I. General Remarks and Institutional Requirements

- 1.1 Ph.D degree will be instituted in all medical subjects in which recognized postgraduate qualifications in medical subjects are awarded by the Baba Farid University of Health Sciences or other recognized Universities.
- 1.2 Registration and Award of the degree of Ph.D. will be open to medical persons in all medical subjects and non-medical persons only in those subjects where Medical Council of India allows post-graduation for non medical persons.
- 1.3 Registration and award of the Ph.D. degree will be available only upon completion of MD or MS or PG Diploma or M.Sc. in Medical Subjects.
- 1.4 The institute where Ph.D. work is to be pursued should have adequate facilities for advanced research and laboratory investigations in the departments of Bio-chemistry, Physiology, Microbiology, Histopathology, Radio-diagnosis and all concerned departments.
- 1.5 Adequate facilities for experimental medicine and experimental surgery should also exist in the institution concerned.
- 1.6 The ancillary departments should also be adequately equipped and well staffed.
- 1.7 There should be adequate facilities for all types of basic and advanced investigative and therapeutic modalities.

2. Eligibility

The following categories of candidates shall be eligible for registration for research leading to the award of Ph.D. degree from the Faculty of Medical Sciences of this University provided they are not pursuing any other full time course/studies.

- 2.1 A person holding a recognized post-graduate degree/diploma (MD/MS/PG Diploma/M.Sc.) in any medical subject with at least 50% marks (wherever awarded) and should be recognized by an Indian University.
- 2.2 A person holding a postgraduate degree with 50% marks or equivalent grade from a foreign University deemed equivalent to MD/MS/PG Diploma/M.Sc. degree of this University.
- 2.3 A permanent or contractual teacher in other recognized University or in its affiliated college fulfilling eligibility conditions as at Sr. No. 2.1 and 2.2 and whose supervisor is working within the jurisdiction of this University may be allowed registration as a part time candidate. The suggested place of work in such cases should have specialized research facilities in the field in which the candidates research topic is registered.
- 2.4 A permanent or contractual teacher of this University or in an affiliated college fulfilling the eligibility conditions as at Sr. No. 2.1 & 2.2 and whose supervisor is working within the jurisdiction of this University may be allowed registration as a part time candidate. Such candidates, if need be, may pursue his research project under supervision of his co-supervisor at candidate's place of work. However, such a candidate will have to pursue his research at supervisor's place of work for a total period of at least one year. The suggested place of research work should offer specialized research facilities in which the candidate's research topic lies is registered.
- 2.5 A candidate fulfilling the eligibility conditions as at Sr. No. 2.1 & 2.2 above, who is not working in any University or affiliated college as prescribed in Ordinance 2.3 and 2.4 above, may be allowed registration as a full time candidate provided his/her supervisor is working within the jurisdiction of this University. A full time medical candidate will have to pursue his/her research at the place of work of the supervisor for a period of two years, at his/her own expenses whereas full time non-medical candidate will have to work for three years at his/her own expenses. However, if the supervisor can arrange grant for the research of the project, remuneration may be given to the candidate from that grant through the Supervisor. The College may also give suitable remuneration to the candidate. The suggested place of research work should offer specialized research facilities in which the candidate's research topic lies is registered. The Head of the Department concerned will certify that the

candidate has pursued his/her research work for a period of two years in case of medical candidate and three years for non-medical candidate as the case may be.

- 2.6 A candidate (registered for Ph.D. degree of this University) from outside the jurisdiction of this University will have to work at the Supervisor's place of work for a total period of at least one year during the course of registration for Ph.D. Degree. The Head of the Department concerned will certify that the candidate has pursued his research work for a period of at least one year in the department concerned. Such candidates may have, if need be, a co-supervisor at his place of research work.
- 2.7 A research worker/scientist who has taken a recognized postgraduate qualification in a medical subject from this University or from a recognized University and fulfils the criteria for registration and is working in a National Laboratory or National Institution which does not have provision for Ph.D registration may also be allowed registration for Ph.D as a part time candidate. The supervisor of such a candidate will be approved as per University norms.

3. Enrolment/Registration

- 3.1 After having qualified in the entrance examination, regular application for regular registration for Ph.D on the prescribed form with the registration fee of Rs.5000/- in the form of demand draft in favour of "Registrar, Baba Farid University of Health Sciences, Faridkot" should be submitted through the Supervisor(s) and shall be entertained by the Head of the Department concerned. Each application will be scrutinized by the Application Screening Committee(ASC). ASC will consist of all the faculty members of concerned department along with the supervisors. The ASC will work under the control of the Faculty of Medical Sciences. The ASC will interview the candidate about the research proposal and assess the suitability of the candidate for registration. If found acceptable, the ASC will recommend the candidate's case to the Research Degree Committee (RDC) as constituted by the Faculty of Medical Sciences. Registered Candidates for Ph.D. degree will pay to the University annual fee of Rs. 10,000/- per annum.
- 3.2 The Ph.D. Enrolment/ Registration Candidate, through his proposed supervisor, should have submitted along with his application form a synopsis containing the following.
- i) The title of the subject of research.
 - ii) The brief review of the literature and justification of research proposal.
 - iii) An outline of the proposed research project of the subject.
 - iv) References/ Bibliography.

A candidate may within one year of his registration modify the scheme of his research subject with the approval of the Faculty of Medical Sciences.

3.3 The candidate shall be required to make a presentation on the topic of his study (synopsis) in the presence of members of the RDC. The RDC will consist of:

- i) Principal of the Medical college concerned who will be the Chairman of RDC.
- ii) Professor and Head of Department concerned.
- iii) Proposed Supervisors of the Candidate.
- iv) All Faculty members of the Department concerned through which Ph.D registration is applied for.
- v) All Professors of the Medical College concerned.
- vi) Two assistant Professors from the Medical College concerned to be nominated by the Dean, Faculty of Medical Sciences.
- vii) One expert from the proposed field of research may be nominated by the Dean, Faculty of Medical Sciences.
- viii) Members of the College Ethical Committee on Research Projects, Thesis etc.
- ix) Statistician of the college concerned.

4. The RDC may accept or reject the synopsis. The RDC may also suggest changes in the synopsis and reconsider the modified proposal. (All rights will be reserved with RDC).

5. The RDC while recommending the registration of the candidate for consideration of the Faculty of Medical Sciences will send:

- i) a detailed note about the suitability of the topic as also the methodology proposed by the candidate. The note will also include the names of the faculty members present at the meeting, the duration of discussion and final outcome.
- ii) The supervisor will also be required to give specific comments including feasibility report on the synopsis submitted by the candidate.
- iii) Upon receipt of a positive recommendation about the candidate from RDC, the Faculty of Medical Sciences will take a final decision towards the registration of the candidates for the Ph.D. degree.

6. Appointment of the Supervisor(s)

The appointment of supervisor/co-supervisor will be as per the following norms.

- 6.1 Normally there will be one supervisor for each candidate.
- 6.2 A supervisor will not supervise the work of more than five scholars at a time.
- 6.3 Following shall be the criteria for appointment of supervisor/co-supervisor:-
- a) Teachers holding Ph.D. qualification having at least 5 years' teaching experience after Ph.D. may be appointed supervisor/co-supervisor.
 - b) Eligible Post Graduate Teachers (Non-Ph.D.) having postgraduate qualification with 10 years teaching experience after Post graduation may be appointed supervisor/co-supervisor.
 - c) Eligible Post Graduate teachers with Ph.D. qualification having at least 5 years teaching experience after Ph.D. and working in other Universities may also be appointed supervisor/co-supervisor.

The teachers mentioned at (a), (b) and (c) above, should also have published at least 5 research papers in indexed National and International Journals.

A co-supervisor may be appointed in special cases such as :

- i) If the candidate is working in other recognized University or its affiliated college.
- ii) If the field of the candidate is such that it requires substantial inter-disciplinary input from two or more disciplines.
- iii) If the candidate is working at a place other than of his supervisor, a co-supervisor from the place of candidates work may be appointed.
- iv) Teaching/research experience for the co-supervisor shall be the same as that for the supervisor.
- v) The supervisory duties of the co-supervisor shall be the same as that of supervisor.
- vi) A co-supervisor will also not supervise the work of more than five scholars at a time.

7. Requirements during the period of Registration

The candidate would be required to document and show the progress during the period of registration for Ph.D. degree.

- 7.1 The candidate for Ph.D. will submit to RDC his progress report after every six months duly recommended by his supervisor. On non-receipt of progress report, a fine of Rs. 500/- may be charged from the candidate for every delayed progress report, or as decided by University Authorities.
- 7.2 On non receipt of progress reports or on submission of irregular reports or unsatisfactory reports from the supervisors about the work of the candidate,

matter shall be reported by RDC to the Faculty of Medical Sciences for necessary action.

- 7.3 In the event of differences arising between the candidate and his supervisor, a reference shall be made to the Dean, Faculty of Medical Sciences who may decide the dispute himself or refer it to some other competent person or body for the expert advice.
- 7.4 Every candidate registered for Ph.D. degree shall present his findings on the research project in the form of a seminar every year in the department concerned where other faculty members of the college may also attend. The HOD shall make the necessary arrangement for the seminar. A detailed report by the HOD on the seminar shall be sent to the Faculty of Medical Sciences through RDC. The candidate shall be required to include in his thesis any suggestions put forth during the seminar in consultation with his supervisor, but these suggestions made during such seminars should not alter the contents of the synopsis already approved by the RDC.
- 7.5 If the candidate is utilizing the laboratory facilities of the institution, then Rs. 20000/- may be charged as Laboratory Fee annually. If the candidate is not utilizing any laboratory facilities of the institution, then the competent authorities may wave off the above mentioned fee or reduce the amount of fee.

8. Duration of Research for Ph.D & Submission of Thesis

- 8.1 A full time medical candidate can submit his thesis for Ph.D. not earlier than two years of registration and a full time non-medical candidate can submit his thesis for Ph.D. not earlier than three years of registration.
- 8.2 Part time candidates for Ph.D. can submit their thesis not earlier than four years of registration.
- 8.3 Thesis for Ph.D. degree will have to be submitted up to a maximum period of five years from the date of registration.
- 8.4 The Dean, Faculty of Medical Sciences, on the application of the candidate, recommended by the supervisor and forwarded by the HOD concerned, may extend this period by one year. While recommending the candidate's application for extension in period for submission of thesis, the progress already made by the candidates will be kept in the view.
- 8.5 On a similar application, the Vice-Chancellor after considering the recommendation of the Dean, Faculty of Medical Sciences may further condone the delay in submission of Ph.D. thesis up to one year in a very special circumstances.

- 8.6 Rs.5000/- will be charged as fee for each extension for submission of thesis or as decided by competent authority.
- 8.7 The registration of the candidate will automatically stand cancelled after he has availed the extensions allowed by the Dean, Faculty of Medical Sciences and Vice-Chancellor for submission of Ph.D. thesis. The decision will be final & binding on the candidate.
- 8.8 At the end of requisite period of registration, if the candidate fails to submit his thesis, the progress of his research work would be submitted to a special review by the RDC by his supervisor. If it is found that the progress of work has been unsatisfactory, the RDC may recommend cancellation of registration of the candidate to the Faculty of Medical Sciences.

9. Thesis

- 9.1 Every candidate shall be required to inform the office of Dean, Faculty of Medical Sciences through his supervisor/HOD that he intends to submit his thesis for Ph.D. in about three months time.
- 9.2 The candidate shall not be permitted to submit the thesis for the degree unless his/her supervisor is satisfied that the thesis presented is worthy of consideration for the award of the Ph.D. degree. In case of an adverse report by the supervisor, the candidate can make a representation through the Faculty of Medical Sciences to the Vice-Chancellor.
- 9.3 A thesis to be presented by the candidate for the Ph.D. Degree must be a piece of research work characterized either by the discovery of new fact or by a fresh interpretation of facts or theories or should consist of applied work. It should depict the candidate's capacity of critical examination, analytical judgment and the art of lucid presentation.
 - 9.3.1 Before submission of thesis for the award of Ph.D. degree, the candidate should publish his research findings in the form of two research papers in scientific journals. These two research papers should be incorporated in the Ph.D. thesis or proof of research papers having been accepted for publication in the journals be reproduced.
- 9.4 He shall be required to submit copies of a detailed summary/ broadline of his thesis so that these reports could be sent to the examiners for obtaining their acceptance to act as examiners to evaluate the Ph.D. thesis. The office on receipt of intimation from the examiners shall take up the matter of appointment of examiners.
- 9.5 The thesis should be neatly printed or typewritten or published in candidates own name. It should be accompanied by a certificate from the supervisor through HOD to the effect that the thesis is worthy of submission for the Ph.D. Degree. The format of the thesis should be as per the guidelines of the University and the CD-ROM version of thesis should also be submitted along with the thesis.
- 9.6 On completion of the research work, the candidate shall submit four copies of his thesis along with the fees of Rs. 10000/-. The candidate shall also submit four copies of abstract which will depict the following:-
 - a) How far his thesis embodies the result of his own research or observations.
 - b) In what respect his research has contributed in the advancement of the subject.
 - c) These revelations shall have to be countersigned by the supervisor.

10. Appointment of Examiner of Ph.D. Thesis

10.1 The thesis for Ph.D. shall be referred to two external examiners for evaluation selected by the Vice-Chancellor from a panel consisting of at least five names in the relevant specialization. The list has to be submitted by the HOD concerned in consultation with the supervisor of the candidate providing the following information about each examiner.

- a) Name of the Examiner
- b) Academic status
- c) Postal Address
- d) Area of specialization

10.2 It is further provided that when HOD is himself the supervisor of the candidate, the Dean, Faculty of Medical Sciences may suggest the panel of Examiners in consultation with the HOD.

10.3 When the consent of the examiner is being sought for, the availability of the examiners for the conduct of viva-voce examination at a time and place to be decided by the Vice-Chancellor be also ascertained.

10.4 The examiners shall be free to seek clarification on any matter from the candidate's supervisor through the Registrar of the University.

10.5 Each examiner shall be given one month's time for evaluation of the thesis. In case of delay, the examiner may be reminded in written. After the expiry of a period of two months, if no report is received, the next examiner shall be appointed. If in due course, the report is received from the first examiner, the report shall not be considered.

10.6 The examiners should also submit to the University their critical evaluation, comments and suggestion on the Ph.D. thesis.

10.7 The Examiners individually may recommend one of the following:

- (i) That the Ph.D. degree be awarded to the candidate.
- (ii) That the candidate be allowed to re-submit the thesis in a revised form on the lines suggested by the examiners.
- (iii) That the thesis be rejected.

10.8 If both the examiners recommend the candidate for the award of the degree, the Academic Council of the University will propose to the Board of Management that the Ph.D. degree may be awarded to the candidate.

10.9 In case, the examiners make recommendations for revision/modification of thesis.

the candidate shall be required to do so before his case is processed further. The candidate required to re-submit his thesis after revision/modification must do so within one year from the date of supply of comments of the examiners to him by the University. Extension for the re-submission time may be granted by the Vice-Chancellor on recommendation of the Faculty of Medical Sciences. A re-submitted thesis will be examined by the examiners who had recommended the revision/modification.

10.10 The candidate required to re-submit his thesis after revision will be recharged a fee of Rs.10000/-.

10.11 In case one examiner recommends the award of degree and the other examiner rejects the thesis for the award of the degree, the thesis shall be referred to a third examiner to be appointed by the Vice-Chancellor from the original panel of examiners. The third examiner appointed to evaluate thesis in such cases shall not be informed of the recommendations of the first two examiners. This procedure shall also be followed if the examiner who suggested the revision/modifications rejects the revised thesis.

10.12 The teachers possessing M.Sc. & Ph.D. Degree from Punjab Agricultural University shall not be appointed Examiners as they are not eligible to be appointed as Teachers in Medical Institutions. *(Inserted by BDM on 31.1.2006, vide para 36).*⁶⁹

11. Reports of Ph.D. Thesis and Oral/Viva-Voce Examination

- 11.1** The Registrar/Controller of Examinations will personally open the reports on Ph.D. thesis only when they have been received by the University from both the external examiners.
- 11.2** When both the reports of the examiners are positive, the case will be put up to the Vice-Chancellor for conduct of Oral/Viva-voce examination of the candidate on the date and place to be decided by the Vice-Chancellor.
- 11.3** The viva-voce examination of the candidate will be arranged by the HOD and the supervisor of the candidate.
- 11.4** The viva-voce examination should preferably be conducted by both external examiners. If it is to be conducted by one external examiner (if permitted by Vice-Chancellor) the other external examiner of the candidate may send in his set of questions to be asked from the candidate by the external examiner conducting the viva-voce examination.
- 11.5** When both the external examiners are unable to conduct the viva-voce examination, in that case a set of question would be obtained from them by the Registrar/Controller of Examinations and then the viva-voce examination may be conducted by another examiner to be appointed by the Vice-Chancellor. This examiner shall ask the question sent by the external examiner and evaluate the candidate.
- 11.6** The viva-voce examination of the candidate may be made public to the entire or limited faculty of the college by the Vice-Chancellor.
- 11.7** The report about the performance of the candidate in the viva-voce examination shall be recorded by the external examiners only.



Award of Ph.D. Degree

- 12.1 If both the external examiners have approved the award of the degree in their report based on the thesis and the viva-voce examination, then Academic Council will consider these reports and will propose to the Board of Management for the award of the Ph.D. degree to the candidate.
- 12.2 Even if a thesis is approved by both the examiners without any revision or modifications, then the award of the Ph.D. degree after viva-voce examination shall be determined three months after the submission of Ph.D. thesis.
- 12.3 The Register of University shall publish the result.

Publication of Thesis Research Work

If a successful candidate wishes to publish his/her research work of Ph.D. thesis in original or revised form and wishes to mention the fact that his/her work was awarded the Ph.D. degree by the University, he/she shall have to seek prior written permission from the University.

Supply of Reports to the candidates

Photostat copies of the reports of the examiners may be supplied to the candidate and the supervisor after the publication of the result.

General Control

The department concerned shall exercise disciplinary and general control over the research candidates and their work.

HOD concerned shall also direct the candidate to pay the dues/fees to the University from time to time as required under the instructions issued by the University.

IMPORTANT INFORMATION

1.	Application form and prospectus available on institution website i.e. www.dmch.edu	05-02-2022
2.	Last date for submission of application form (complete in all aspects) along with all relevant documents in the Principal Office, Dayanand Medical College & Hospital, Ludhiana, Punjab - 141 001 by Hand/Regd Post/Speed Post/Courier.	21.02.2022
3.	Availability of Roll Number-cum-Admit Card (online)	23-02-2022
4.	Date of Entrance Exam • Written Test • Interview	26-02-2022
5.	Display of merit list	26-02-2022
6.	Date of counseling for admission	26-02-2022
7.	Display of selection list and waiting list	26-02-2022
8.	Joining	01-03-2022

Price (inclusive of Entrance Exam. Fee) : Rs. 6000/-

[Fee charges :- a) Prospectus – Rs. 3000/- b) Exam fee- 3000/-]

PROSPECTUS MAY BE DOWNLOADED FROM THE COLLEGE WEBSITE i.e. www.dmch.edu

ADMIT CARD SHOULD BE DOWNLOADED FROM THE WEBSITE AFTER FILLING THE FORM.

In case of query , please contact : 81465-45367





DAYANAND MEDICAL COLLEGE & HOSPITAL



UNIT-HERO DMC HEART INSTITUTE