

NIMHANS

(INSTITUTE OF NATIONAL IMPORTANCE)



PROSPECTUS

2017-18

NIMHANS has been declared as an Institute of National Importance vide Government of India Gazette Notification dated 14.9.2012. As per the Act, NIMHANS does not come under the purview of any of the statutory councils, namely, Medical Council of India, Indian Nursing Council or Rehabilitation Council of India. Number of seats for different courses notified in this prospectus will not be increased under any circumstance.

The Institute reserves the right to modify/change the contents of this prospectus without prior notice.

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Brief History of the Academic programs offered at National Institute of Mental Health and Neuro Sciences (Institute of National Importance) Bengaluru

The Government of India established the All India Institute of Mental Health in 1954 in association with the then existing Mental Hospital of the Government of Karnataka. Major objective of the Institute was to generate manpower in the field of mental health and neurosciences. The Mental Hospital, Bangalore, which had built up certain traditions since 1938 in matters related to undergraduate training in the field of Psychiatry was chosen by the Government of India as the centre for training. In tune with this objective, two diploma courses – one in Psychological Medicine (DPM) and the other in Medical Psychology (DMP) were started in January 1955. These were followed by a Post Certificate Course in Psychiatric Nursing (DPN) in January 1956. The Institute was then affiliated to the University of Mysore for these courses.

Subsequently, the Institute got affiliated to the Bangalore University in 1964. The Bangalore University established a separate faculty of Mental Health and Neurosciences. The institute introduced MD in Psychological Medicine in 1966, Ph.D in Clinical Psychology in 1967 and a Post Graduate Diploma in Psychiatric Social Work (DPSW) in 1968. DM in Neurology and M.Ch in Neurosurgery courses followed in 1970. Ph.D programs in different disciplines were introduced later.

The All India Institute of Mental Health and the Mental Hospital of the Government of Karnataka were amalgamated into an autonomous Institute and thus the National Institute of Mental Health and Neuro Sciences (NIMHANS) came into existence in 1974. With this, academic training programs got a fillip and many new courses were introduced as shown below:

COURSES	Year of commencement
Post Certificate Course in Neurological and Neurosurgical Nursing	1982
M.Sc in Psychiatric Nursing	1988
Ph.D Neurophysiology, M.Phil. in Neurophysiology	1985
M.Phil. Biophysics	1988
PDF in Neuroanaesthesia, PDF in Neuropathology	2000
DM in Neuroimaging and Interventional Radiology	2000
Ph.D in Psychiatric Nursing	2002
M.Phil. in Neurosciences	2001
B.Sc in Nursing, B.Sc in Radiography, Ph.D in Clinical Neurosciences	2006

PDF in Child & Adolescent Psychiatry	2008
PDF in Neuroinfection, B.Sc in Anaesthesia Technology	2010
DM in Neuroanaesthesia, DM in Child & Adolescent Psychiatry, PDF in Neurology with special emphasis on Epilepsy and Movement Disorders	2011
PDF in Acute Care & Emergency Psychiatry, PDF in Community Mental Health, PDF in Addiction Medicine, PDF in Consultation Liaison Psychiatry, PDF in Geriatric Psychiatry, PDF in Obsessive Compulsive Disorder and related disorders, PDF in Clinical Neuro Sciences & Therapeutics in Schizophrenia	2012
Ph.D degree in History of Psychiatry, Fellowship in Psychosocial Support in Disaster Management, Master of Public Health	2013
PDF in Hospital infection control, PDF in Neuromuscular disorder, PDF in Stroke, PDF in Transfusion Medicine, PDF in Neurocritical Care, Fellowship in Psychiatric Rehabilitation	2014
DM in Neuropathology, DM in Addiction Psychiatry	2015
Post-Doctoral Fellowship in Pediatric Neurology	2016
Post-Doctoral Fellowship in Women's Mental Health	2016
Post-Doctoral Fellowship in Non Invasive Brain Stimulation of Psychiatric Disorders	2016
Post-Doctoral Fellowship in Forensic Psychiatry	2016

The following are the new courses offered from the Academic year 2017-18

DM in Geriatric Psychiatry	02 Seats
Fellowship in Geriatric Mental Health Care	02 Seats (01 Seat for sponsored*)
Fellowship in Mental Health Education	04 Seats (02 Seats for sponsored*)
M.Sc in Biostatistics	04 Seats
Post-Graduate Diploma in Clinical Biochemistry	04 Seats
Certificate Course in Neuropathology Technology	02 Seats

The unique feature of this Institute is its multidisciplinary approach to patient care, training as well as research in the area of mental health and neurosciences. The manpower development programs at NIMHANS reflect the extent to which the institute has succeeded in fusing and nurturing behavioral, neuro, biological and ancient health sciences/systems under one roof.

*Please refer to page no.88 for details of Sponsorship

Academic Calendar

Session - 1

Ph.D, Superspeciality, Post Doctoral , Post Graduate Post Graduate Diploma Courses

- Advertisement regarding admission **1st January 2017**
- Online availability of application forms **1st January 2017**
- Last date for online submission of application **31st January 2017**
- Online entrance test **25th& 26th March 2017**
- Date of interview & counselling **1st week of June 2017**
- Commencement of courses **1st July 2017**
- Last date for admission **7th July 2017**

Session - 2

B.Sc and CCNT / DCNT / DPN / DNN courses

- Advertisement regarding admission **1st week of May 2017**
- Online availability of application forms **1st May 2017**
- Online entrance test **July 2017**
- Commencement of courses **1st August 2017**
- Last date for admission **8th August 2017**

Session - 3

Ph.D for candidates with JRF / SRF from UGC / ICMR / CSIR / DBT along with permanent employees/tenured employees of NIMHANS only

- Advertisement regarding admission **1st August 2017**
- Online availability of application forms **1st August 2017**
- Last date for online submission of application **31st August 2017**
- Online entrance test **Last week of October 2017**
- Date of interview **1st week of November 2017**
- Commencement of courses **1st December 2017**
- Last date for admission **8th December 2017**

For all academics-related issues, please contact +91 80 - 26995013 / 15,
or email - academic@nimhans.ac.in

Important Events

- | | |
|------------------------------|---------------------------------|
| • Institute Day | 14th February |
| • International Nurses' Day | 12th May |
| • Teachers Day | 5th September |
| • National Mental Health Day | 10th October |
| • Graduation Day | 29th November |
| • Convocation | December/January |

Institute Authorities

Dr. B. N. Gangadhar- Director	26995001 / 26995002 / 26564140 26561811 / 26565822
Dr. K. Sekar - Registrar	26995005 / 26995006 / 26995235
Dr. M. Jayaram – Dean (Neurosciences)	26995004 / 26995850 / 26995569 / 26995031
Dr.S K. Chaturvedi– Dean (Behavioural Sciences)	26995004 / 26995851 / 26995264
Dr. V. Ravi – Dean (Basic Sciences)	26995004 / 26995852 / 26995126

Coordinators - Ph.D course work

	Name of the Module	Coordinators
1	Research Methodology (RM)	Dr. Mariamma Phillip Associate Professor of Biostatistics
2	Computer Applications (CA)	
3	Quantitative and Qualitative Software (SS)	Dr. B. Binukumar Assistant Professor of Biostatistics
4	Human / Animal Ethics (Ethics)	Dr. B. S. Shankaranarayana Rao Professor of Neurophysiology
5	Basic Sciences	Dr. M. M. Srinivas Bharath Additional Professor of Neurochemistry Dr. B. N. Srikumar Assistant Professor of Neurophysiology
6	Behavioural Sciences	Dr. B. M. Suresh. Professor of Psychiatry Dr. P. Naren Associate Professor of Psychiatry
7	Neurosciences	Dr. M. S. Gautham Associate Professor of Epidemiology Dr. Anita Mahadevan Additional Professor of Neuropathology
8	Nodal Officer for UGC/DST/DBT/SERB	Dr. P. Marimuthu Additional Professor of Biostatistics

Important Committees

9	Anti-Ragging Committee	Dr. Sanjib Sinha, Chairperson
10	Grievance Redressal Committee	Dr. T. R. Raju, Chairperson
11	Internal Complaints Committee	Dr. Pratima Murthy, Chairperson
12	Sub-Committee on Ethics for Basic & Neuro Sciences	Dr. M. Jayaram, Chairperson
	For departments under Behavioural Sciences, Sub Committees are there to evaluate the Ph.D, MD, M.Phil, M.Sc, PDF and Fellowship dissertations, coordinated by the member Secretary Ethics Committee for Behavioural Sciences	Dr.S.K.Chaturvedi

Central Facilities

Advanced Centre for Ayurveda in Mental Health and Neurosciences

Dr. D. Sudhakar,
Asst. Director (Ay) 26995243

Biomedical Engineering

Smt. M. G. Sindu
Biomedical Engineer 26995220

Central Animal Research Facility

Dr. J. Suresh Chandra
Sr. Veterinary Officer (on contract) 26995040

Engineering

Mr. N. L. Sateesh
Asst. Executive Engineer 26995216

Library & Information Centre

Dr. M. Jayaram
Sr. Professor, Officer-in-charge 26995031

Photography

Dr. S. K. Chaturvedi
Professor & I/C Head 26995044

Publication

Mr. M. Prabhu Dev
Asst. Editor & Officer-in-charge 26995036

Hospital Administration

Dr. V. Bhadrinarayan
Medical Superintendent I/C 26995201

Dr. K. Muralidharan,
Deputy Medical Superintendent 26995252

Dr. V. S. Chandrashekar
Resident Medical Officer (on contract) 26995203

Sri A.L. Devadas
Asst. Admn. Officer (OPD) I/C 26995524

Smt. T. Chandramathi
Asst. Admn. Officer (Hospital) 26995205

Smt. G. Thanappa
Asst. Admn. Officer (RS) 26995295

General Administration

Mr. R. Timothy Raj Dy. FA & CAO	26995019
Mr. M. N. Shankarsa Chief Administrative Officer	26995008/21
Mr. M. Parameshwara Administrative Officer	26995773
Smt. B. K. Revathi Asst. Administrative Officer (Academic & Evaluation)	26995012
Mr. Rethish Kumar Accounts Officer	26995018
Sri. G. S. Harish Accounts Officer	26995775
Smt. G. Umavathy Asst. Admn. Officer (Purchase Section)	26995023
Sri. K. Parthiban Asst. Admn. Officer (Project Section)I/C	26995016
Smt. Helen Regina Asst. Admn. Officer (Co-Ordination)I/C	26995007
Smt. Srilatha Asst. Admn. Officer (Claims)I/C	26995026
Smt. K. Nagaveni Manager (Personnel)	26995773
Mr. K. Prabhakar Asst. Admn. Officer (Accts)	26995022
Mr. Praseed Kumar Public Relations Officer	26995010

Student Hostels

Dr. Bindu M. Kutty Professor & Head of Dept. of Neurophysiology and Hon. Warden, NIMHANS Hostels	26995349
Dr. G.K. Chetan Additional Professor and Hon. Deputy Warden, Men's & Staff Hostels	26995159
Dr. Harish T. Additional Professor and Hon. Deputy Warden, Kabini Hostel	26995810
Dr. Hima S. Pendharkar Additional Professor and Hon. Deputy Warden, Cauvery	26995424

**COURSES
OFFERED
2017–18**

The following courses are offered at the institute in the academic year 2017-18:

Ph.D Degree in Clinical Psychology	03 Seats
Ph.D Degree in Neurophysiology	02 Seats
Ph.D Degree in Psychiatric Social Work	01 Seat
Ph.D Degree in Speech Pathology & Audiology	01 Seat
Ph.D Degree in Biostatistics	01 Seat
Ph.D Degree in Mental Health Rehabilitation	02 Seats
Ph.D in Clinical Neurosciences	05 Seats
Ph.D in History of Psychiatry	External Fellowship Only
Please note: The details of Ph.D under external fellowship in various departments are indicated under departments and courses of this prospectus	
DM Degree in Neuroimaging and Interventional Radiology	04 Seats (01 seat for sponsored)
DM Degree in Neurology	14 Seats (10seats for Post MD/DNB & 04 seats for post MBBS) (01 seat for sponsored under post MD/DNB only, however if sponsored candidates are not available, it will go to the General pool)
DM Degree in Child & Adolescent Psychiatry	04 Seats (02 seats for sponsored)
DM Degree in Addiction Psychiatry	02 Seats
DM Degree in Neuroanaesthesia	04 Seats
DM Degree in Neuropathology	02 Seats (01 seat for sponsored)
DM Degree in Geriatric Psychiatry	02 Seats
M.Ch in Neurosurgery	10 Seats (06 seats for post MS/DNB & 04 seats for post MBBS) (01 seat for sponsored under post MS/DNB only, however if sponsored candidates are not available, it will go to the General Pool)
MD Degree in Psychiatry	<p>Total : 37 Seats – Break-up indicated below:</p> <p>i) 21 seats All India selection</p> <p>ii) 08 seats for Domiciles of Karnataka</p> <p>iii) 06 seats for Candidates from Arunachal Pradesh, Chhattisgarh, Jammu and Kashmir, Manipur Meghalaya, Mizoram, Nagaland, Sikkim, Tripura & Uttarakhand domicile only*</p> <p>iv) 02 seats for sponsored candidates of which one seat is for domicile of Karnataka, however, if sponsored candidates are not available, the seats will go to the general pool</p> <p>*Decided solely on overall Merit and not necessarily State-wise</p>

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Fellowship in Psychosocial Support in Disaster Management	08 Seats (04 seats for sponsored)
Fellowship in Psychiatric Rehabilitation	02 Seats (under medical) (01 seat sponsored) 02 Seats (under non-medical) (01 seat sponsored)
Fellowship in Geriatric Mental Health Care	02 Seats (01 seat for sponsored)
Fellowship in Mental Health Education	04 Seats (02 seats for sponsored candidates from State/ Central Govt./NGO) If sponsored candidates are not available, it will go to the General Pool.
M.Phil in Clinical Psychology	Total : 21 Seats – Break-up indicated below: i) 15 Seats for All India ii) 03 Seats for Karnataka Domicile iii) 03 Seats for foreign/sponsored candidates
M.Phil in Psychiatric Social Work	21 Seats (including 03 seats for foreign/sponsored candidates)
M.Phil in Neurophysiology	02 Seats
M.Phil in Biophysics	03 Seats
M.Phil in Neurosciences	04 Seats
Master of Public Health	10 Seats (05 Seats for sponsored candidates from the government sector and 05 Seats for non-sponsored candidates)
M.Sc in Psychiatric Nursing	09 Seats
M.Sc in Biostatistics	04 Seats
Post-Doctoral Fellowship in Child & Adolescent Psychiatry	02 Seats (01 seat for sponsored)
Post-Doctoral Fellowship in Neuroanaesthesia	04 Seats (02 seats for foreign/sponsored)
Post-Doctoral Fellowship in Neurocritical Care	03 Seats (02 seats ICMR fellowship under Centre for Advanced Research and 01 seat sponsored by TVS group)
Post-Doctoral Fellowship in Neuroinfection	02 Seats (01 seat for sponsored)
Post-Doctoral Fellowship in Hospital Infection Control	01 Seat (01 seat for sponsored)
Post-Doctoral Fellowship in Epilepsy	02 Seats (01 seat for sponsored)
Post-Doctoral Fellowship in Movement Disorders	02 Seats (01 seat for sponsored)
Post-Doctoral Fellowship in Neuromuscular Disorder	01 Seat
Post-Doctoral Fellowship in Stroke	01 Seat
Post-Doctoral Fellowship in Paediatric Neurology	01 Seat

Post-Doctoral Fellowship in Neuropathology	02 Seats
Post-Doctoral Fellowship in Transfusion Medicine	02 Seats (01 seat for sponsored)
Post-Doctoral Fellowship in Neurological Rehabilitation	02 Seats
Post-Doctoral Fellowship in Acute Care & Emergency Psychiatry	02 Seats (01 seat for sponsored)
Post-Doctoral Fellowship in Community Mental Health	03 Seats (02 seats for sponsored)
Post-Doctoral Fellowship in Addiction Medicine	04 Seats (02 seats for sponsored)
Post-Doctoral Fellowship in Consultation Liaison Psychiatry	02 Seats (01 seat for sponsored)
Post-Doctoral Fellowship in Geriatric Psychiatry	02 Seats (01 seat for sponsored)
Post-Doctoral Fellowship in Obsessive Compulsive Disorder & Related Disorders	03 Seats (02 seats for sponsored)
Post-Doctoral Fellowship in Clinical Neuro Sciences & Therapeutics in Schizophrenia	03 Seats (02 seats for sponsored)
Post-Doctoral Fellowship in Women's Mental Health	02 Seats (01 seat for sponsored)
Post-Doctoral Fellowship in Non-Invasive Brain Stimulation of Psychiatric Disorders	02 Seats (01 seat for sponsored)
Post-Doctoral Fellowship in Forensic Psychiatry	02 Seats (01 seat for sponsored)
Post-Graduate Diploma in Clinical Biochemistry	04 Seats
B.Sc in Anaesthesia Technology	10 Seats
B.Sc in Nursing	77 Seats (Under the College of Nursing)
B.Sc in Radiography	10 Seats (04 Seats for sponsored) (05 seats reserved for Post Diploma Candidates)
Diploma Course in Clinical Neurophysiology Technology	06 Seats (02 Seats for Sponsored)
Post Basic Diploma in Psychiatric/Mental Health Nursing	45 Seats
Post Basic Diploma in Neurosciences Nursing	09 Seats
Certificate Course in Neuropathology Technology	02 Seats

**DEPARTMENTS
AND
COURSES**

Department of Biophysics

Department of Biophysics is involved in manpower development, research and teaching in the area of neuroscience and biophysics. The department has sophisticated laboratories to carry out research in neuroscience at the cellular and molecular level. Facilities for in-vitro fluorescence imaging (epifluorescence, single photon and multi-photon confocal imaging), absorbance and fluorescence spectroscopy and electrical recording system (patch clamp set-up). The department is well equipped for cell culture studies, biochemical (electrophoresis and blotting) and molecular biology experiments (PCR, RT-PCR, plasmid DNA isolation and purification and protein expression in mammalian system). Details of the courses offered at the department are as follows:

Courses

1. Ph.D in Biophysics: Only External Fellowship

Duration: 3 – 5 Years

Minimum Qualification for Admission:

M.Phil Biophysics / Neuroscience / MBBS / M.Sc in Biophysics / Physics / Biochemistry / Biotechnology / Life Sciences / Physiology

Program of Study: Initially the candidate will be provisionally registered for Ph.D. The registration will be confirmed after qualifying the Pre-Ph.D examination. The candidate would be trained in both theory and practical aspects of the curriculum pertaining to the discipline. After successful completion of the proposed work and approval of the synopsis the candidate shall submit the thesis for award of Ph.D degree.

2. M.Phil in Biophysics: 03 Seats

Duration: 2 Years

Minimum Qualification for Admission:

MBBS / B.Tech in Biotechnology / Electronics / Computer Science / M.Sc in Biophysics / Physics / Biochemistry / Biotechnology / Life Science / Zoology / Chemistry / Physiology

Program of Study: The course has been designed to build up the general background in the major

areas of biophysics such as molecular biophysics, membrane biophysics, neuro biophysics, biophysical techniques, bioenergetics and medical biophysics. In the second year of the course, emphasis is given to specialization and research. The candidate will carry out a research project to be presented in the form of a dissertation. The laboratories are well equipped to conduct research on cellular and molecular aspects of nervous system.

Academic faculty and their research interests

Dr. Preeti G. Joshi, Professor & Head:

Cell Signaling; Purinergic Receptors in the Nervous System; Mechanisms of Neuron-glia Communication and its Deregulation in Neurological and Psychiatric Disorders and Neurodegeneration.

Dr. Balasundaram Padmanabhan, Professor:

Structural Biology; Structure-based Drug Design; Epigenetic Markers/Chromatin Regulators; Protein Targets associated with Neurodegenerative Diseases and Cancer.

Dr. Indrani Datta, Assistant Professor:

Pluripotent Stem Cells and Generation of In Vitro models of CNS Diseases; Neurobiology of Parkinson's Disease; Stem Cell Mediated Neuro-regeneration in Parkinson's Disease; and Diabetic Neuropathy.

Dr. Bhupesh Mehta, Assistant Professor:

Synaptic Physiology; Synaptic Modulations in neuronal hyperexcitability; Electrophysiology and Optogenetics.

Department of Biostatistics

Courses

1. **Ph.D in Biostatistics:** **01* Seat under Institute Fellowship.**
Candidates with external fellowship are also taken.

Duration: 3 – 5 Years

Minimum Qualification for Admission:

M.Stat (ISI) / M.Sc in Statistics / Biostatistics / Medical Statistics / Health Statistics / Agricultural Statistics/ Applied Statistics through regular course from recognized Universities/ Institutions

Program of Study: Development and application of biostatistics in the field of mental health and neurosciences.

2. **M.Sc in Biostatistics: 04 Seats**

Duration: 2 Years

Minimum Qualification for Admission:

Undergraduates in Mathematics/ Statistics as main subjects from any University recognized by NIMHANS, with at least 55% of the marks, are eligible for this program.

Program of study: The course will consist of theory lectures on Mathematical Statistics and Probability Theory, Statistical Inference, Sampling theory & design of Experiments, Demography & Epidemiology and Statistical Software I (using SPSS, SAS software) for the first year and Multivariate Methods; Genetic Epidemiology, Bioinformatics & Psychometrics; Clinical Trials & Survival Analysis; Statistical Software II (using R and Stata software); and Project Work/Dissertation for the second year.

Academic faculty and their research interests

Dr. K. Thennarasu, Professor & Head:

Applied Multivariate Analysis; Quantile and Poisson Regressions; Statistical Applications in Genetics; Survival Analysis; Categorical Data Analysis; Latent Variable Modelling; Micro Array Data and Cluster Analysis.

Dr. P. Marimuthu, Additional Professor:

Clinical Trials; Simulation and Projection for Cancer; Mental Health; HIV/AIDS Problems; Survival Analysis; Linear and Nonlinear Models; Scale Construction; Morbidity Survey and Bayesian Methods.

Dr. Mariamma Phillip, Associate Professor:

Applied Multivariate Analysis; Application of Artificial Neural Networks in Medicine and Incomplete Data Analysis.

Dr. B. Binu Kumar, Assistant Professor:

Statistical Epidemiology; Categorical Data Analysis; Survey Methods; Meta-analysis; Missing Data Analysis and Applied Multivariate Methods.

Department of Child & Adolescent Psychiatry

Department of Child & Adolescent Psychiatry, established in 2010, is the first department of its kind in India. However, Child and Adolescent Psychiatry services at NIMHANS were started in the 1950s with the objectives of catering to mental health needs of children and adolescents, training mental health professionals and facilitating research in the area of child and adolescent psychiatry.

Clinical Services: The department offers both outpatient and inpatient clinical services for neurodevelopmental disorders such as autism spectrum disorders, intellectual disability (mental retardation), specific learning disorders (dyslexia, dyscalculia and others), emotional and behavioral problems and other child and adolescent psychiatric disorders such as attention deficit hyperactivity disorder, obsessive compulsive disorders, depression, bipolar disorders and mental health issues.

Training: Psychiatrists, paediatricians and other allied medical professionals from outside NIMHANS (both Govt. and Pvt. Sectors) hone their skills in child and adolescent psychiatry as observers for a duration ranging from two weeks to three months in the department. Several international trainees and consultants, especially from South Asia avail the opportunity to observe and train with us in child and adolescent psychiatry.

Research Activities: The broad areas of research the department has actively pursued include epidemiology, community child and adolescent mental health, autism spectrum disorders, intellectual disability, juvenile obsessive compulsive disorder, externalizing disorders (attention deficit hyperactivity disorder, oppositional defiant disorder and conduct disorder), internalizing disorders (anxiety disorders, dissociative disorders), juvenile bipolar affective disorder, child sexual abuse and children in difficult circumstances.

Courses

1. Ph.D in Child & Adolescent Psychiatry: Only External Fellowship

Duration: 3 – 5 Years

Minimum Qualification for Admission:

MD in Psychiatry or DNB in Psychiatry or M.Phil in Clinical Psychology or M.Phil in Psychiatric Social Work

2. DM in Child & Adolescent Psychiatry: 04 Seats (02 seats for sponsored candidates)

Duration: 3 Years

Minimum Qualification for Admission:

MD/DNB in Psychiatry

3. PDF in Child & Adolescent Psychiatry: 02 Seats (01 seat for sponsored candidate)

Duration: 1 Year

Minimum Qualification for Admission:

MD/DNB in Psychiatry

Academic faculty and their research interests

Dr. Shekhar P. Seshadri, Professor & Head:

Adolescent Mental Health; Therapy and Therapy Training; Gender; Sexuality; Sexual Abuse; Difficult Populations like Street Children; Qualitative Research and Experiential Methodology; Life Skills Education, School Programs; Community Child and Adolescent Mental Health.

Dr. Shoba Srinath, Senior Professor:

Mood Disorders; Autism Spectrum Disorder; Obsessive Compulsive Disorders and Epidemiology.

Dr. Satish Chandra Girimaji, Professor:

Intellectual Disability; Clinical Child & Adolescent Psychiatry.

Dr. K. John Vijay Sagar, Additional Professor:

Specific Learning Disorder; Autism Spectrum Disorder; Psychopharmacology; Attention Deficit Hyperactivity Disorder; Consultation – Liaison in CAP.

Dr. Preeti Jacob, Assistant Professor:

Attention Deficit Hyperactivity Disorder; Early Onset Schizophrenia; Mood Disorders; Dual Diagnosis and Psychopharmacology.

Department of Clinical Neurosciences (Virtual Department)

The virtual department of Clinical Neurosciences was created in 2013. The department has three adjunct faculty members: Dr. John P. John (HOD), Dr. M. M. Srinivas Bharath and Dr. A. Arivazhagan. The virtual department has 25 PhD scholars (5 candidates per year) who are selected and provided financial support under the Indian Council of Medical (ICMR) Talent Search Scheme (TSS). Five candidates who have completed MBBS are selected each year on the basis of a competitive national level entrance examination and personal interview, conducted along with the annual entrance examinations for all courses at NIMHANS.

The department has been created to foster research temperament amongst medical graduates who are interested in translational neuroscience research. The long-term objective of creation of this discipline is to boost capacity building at the national level in the emerging field of Translational Medicine, specifically as it applies to Neuroscience. The Institute envisages that the department would succeed in bringing out clinician-neuroscientists, who are equally adept in both clinical and research aspects. This department, therefore expects to bridge the wide gap that exists between the “bench and the bed-side”, thereby leading on to translational research that will have more direct clinical applications. These young clinician-neuroscientists are expected to lead the way in the field of Translational Neuroscience in the country in the coming decades.

Courses

1. Ph.D in Clinical Neurosciences: 5 Seats (ICMR Fellowship)

Mode of Selection: Competitive written test followed by an interview, to assess the knowledge of the candidate in basic and clinical medical specialties as well as aptitude for research in interdisciplinary fields related to clinical neuroscience.

Duration of the Course: 5 Years

Minimum Qualification for Admission:

(1) MBBS degree with not less than 55% of the marks of any University recognized by the Medical Council of India (MCI). The candidate should have satisfactorily completed one year compulsory rotating internship or its equivalent as recognized by the MCI after passing the final MBBS examination and must have full registration with a State Medical Council. Candidates with postgraduate medical qualifications can also apply (but no special reservation or preference will be given)

Program of Study: The course will consist of an initial training phase of one year followed by four years of research work. During the first year, the PhD scholars get exposed to clinical work by rotation under the departments of Neurology, Neurosurgery, Psychiatry, Child and Adolescent Psychiatry, Neuroanaesthesia and Neuroimaging and Interventional Radiology. They also take the training modules for Ph.D scholars. In the next four years, the scholars undertake their Ph.D dissertation work in one of the clinical specialties of Neurology, Neurosurgery, Psychiatry or Child and Adolescent Psychiatry and will be posted at one of these departments till completion of their course. The general schedule of work for these scholars is as follows:

First Year: The scholar has to work in the clinical side, actively participating in patient care and exploring avenues of interdisciplinary research. He/she also has to attend the various training modules that are running in the Institute for Ph.D scholars.

Second Year: During the second year, the major emphasis would be selection of the thesis topic and guide from any of the above mentioned clinical specialties, formulation of the thesis protocol, getting approval from the Ph.D and Ethics Committees and appearing for the pre Ph.D examination.

Third to Fifth Year: During this period, the Ph.D thesis work will be undertaken by the candidate in their chosen area of research. The scholar will carry out research work under the supervision of a faculty member, from one of the above-mentioned clinical specialties, who will function as the principal guide. Depending on the nature of the topic, the candidate can also have joint guide/s.

For the purpose of carrying out thesis work, the scholar will be posted to the Department concerned for a period of four years.

Evaluation:

1. Clinical evaluation: The clinical evaluations would be carried out by the various departments under which the scholar gets posted in the first year.
2. Evaluation as part of the modular training Program: Assessments will be carried out as part of the basic, behavioral and clinical neurosciences modules in the first year. All the scholars have to undergo the prescribed course work and successfully complete it.
3. The scholars are required to maintain a log book of their clinical and research activities regularly and get the same approved by the Guide and the Head of Department of Clinical Neurosciences.
4. The scholars have to abide by the Ph.D regulations of the institute.
5. At the end of the third year of the course, the candidate would be assessed for suitability for upgradation from Junior to Senior Resident salary by a committee comprising both internal and external experts.

Academic faculty and their research interests

Dr. John P. John, Professor of Psychiatry & Head:

Neurobiology of Schizophrenia and Neurodegenerative Disorders; Cognitive Neuroscience; Multimodal Brain Imaging; Imaging-genomics of Schizophrenia and Alzheimer's Dementia.

Dr. M. M. Srinivas Bharath, Additional Professor of Neurochemistry:

Red-ox and Mitochondrial Dynamics in the Pathophysiology of Brain and Muscle.

Dr. A. Arivazhagan , Additional Professor of Neurosurgery:

Functional and Minimum Invasive Surgery; Skull Base Surgery; Endoscopic Surgery.

2. M.Phil in Neurosciences: 04 Seats

Duration: 2 years

Minimum Qualification for Admission:

MBBS / BE / B.Tech Electronics / Electrical / Computer Science / Biotechnology / M.Sc in Physics / Chemistry / Biochemistry / Anatomy / Physiology / Molecular Biology / Genetics / Biotechnology / Zoology / Life Science / MA Psychology / M.Sc Psychology

Program of Study: The course consists of theory lectures on structure and function of the nervous system at molecular, cellular and systems level. In addition, candidates will have an exposure to pathological and applied aspects of the nervous system. Theory lectures will be complemented with practicals and demonstrations of various techniques used in different disciplines. Each candidate is required to carry out research work, which will result in a dissertation.

Course Committee: The course will be coordinated by a course committee nominated by the Director/ Vice-Chancellor, NIMHANS. The current members of the Course Committee are:

- | | | |
|---|---|-------------|
| 1. Prof. T. N. Sathyaprabha, Prof. of Neurophysiology | : | Chairperson |
| 2. Prof. N. Gayathri, Prof. of Neuropathology | : | Member |
| 3. Dr. Sarada Subramanian, Addl. Prof. of Neurochemistry | : | Member |
| 4. Dr. Balasundaram Padmanabhan, Prof. of Biophysics | : | Member |
| 5. Dr. Mariamma Philip, Associate. Prof. of Biostatistics | : | Member |

Department of Clinical Psychology

The Department of Clinical Psychology was started in the year 1954 as the Department of Psychology and Human Relations. In tune with the guiding philosophy of NIMHANS, the department is engaged in clinical service, human resource development and research. Clinical services include providing psychological assessment, psychological interventions and community outreach services. The department currently offers a two year full-time M. Phil. program and a 3-5 year doctoral program in Clinical Psychology. Extensive direct engagement with the clients and close one-to-one supervision are integral components of both the training programs. The department also offers certificate programs in Child and Family Therapy (6 months), Cognitive Behaviour Therapy (6 months) and Positive Psychology Perspective: Research, Education and Communication for Health-P3REACH (1 month). In addition, workshops and other programs for continuing professional development are periodically organized by the department. The faculty team runs various specialized clinics in the NIMHANS Centre for Well-Being. The research carried out by the faculty and students contribute to scientific advancement in thrust areas of Clinical Psychology. The faculty also provides consultancy and advisory services to governmental, non-governmental organizations, academic institutions and corporate sector in order to assist them in human resource development, organization of psychological services and research.

Courses

1. Ph.D in Clinical Psychology : 03 Seats

Duration: 3 – 5 years

Minimum Qualification for Admission:

2 years MA / M.Sc in Psychology / Counseling Psychology / Psychological Counseling / Clinical Psychology / Applied Psychology / M.Phil degree in Mental Health and Social Psychology / M.Phil in Clinical Psychology.

Program of Study: The program of study involves undergoing training in theoretical and practical aspects of Mental Health and Clinical Psychology and in research methodology would be provided. It includes supervised clinical internship in Mental Health and Clinical Psychology with special emphasis in areas related to the topic of research would also be provided.

Initially the candidates will be provisionally registered for Ph.D. Their registration will be confirmed upon successful completion of Pre Ph.D examination after 1 year from the date of provision registration.

After completion of a minimum of 3 years and upon satisfactory completion of research work and approval of synopsis, the candidates would be permitted to submit their thesis for award of Ph.D degree.

2. M.Phil in Clinical Psychology: Total : 21 Seats – Break-up indicated below:

- i) 15 Seats for All India
 - ii) 03 Seats for Karnataka Domicile
 - iii) 03 Seats for foreign/sponsored candidates
- Duration: 2 Years

Minimum Qualification for Admission:

2 years MA / M.Sc in Psychology / Counselling Psychology / Psychological Counselling / Applied Psychology / Clinical Psychology

Academic faculty and their research interests

Dr. Mahendra P. Sharma, Professor and Head:

Behavioural Medicine; Cognitive Behaviour Therapy and Processes; Cognitions and Metacognitions; Stress Management; Mindfulness Meditation and Mindfulness Integrated Cognitive Behavioural Interventions and Psycho-oncology.

Dr. Ahalya Raguram, Professor:

Psychosocial Aspects of Mental Health; Family and Marital Therapies; Individual Therapies.

Dr. H. Uma, Professor:

Development of Psychological Tests; Preventive and Promotive Interventions; Therapies with Children & Adolescents; Play & Narrative Therapies; Creativity; School Mental Health and Specific Learning Disabilities.

Dr. Anisha Shah, Professor:

Marital and Family Relationships and Therapies; Emotion Focused Therapy; Gender in Depression.

Dr. L. N. Suman, Professor:

Adult Psychopathology and Psychotherapy; Addictive Behaviours and their Management; Trauma Psychology; Forensic Psychology.

Dr. Seema Mehrotra, Professor:

Mental Health Promotion; Positive Psychology; Emotional Regulation; Adaptation to Major Life Events; Psycho-oncology and Internet Based Self-care Interventions.

Dr. Jamuna Rajeswaran, Professor:

Neuropsychological Assessment and Rehabilitation; Paediatric Neuropsychology; Forensic Neuropsychology; fMRI studies.

Dr. Paulomi Matam Sudhir, Professor:

Cognitive Behavioural Therapies for Anxiety Disorders; Depression; Personality Disorders and Major Psychiatric Disorders such as Schizophrenia; Behavioural Medicine and Health psychology; Cognitive; Interpersonal and Personality Factors in Emotional Disorders and Psychiatric Conditions.

Dr. J. Keshav Kumar, Professor:

Neuropsychological Rehabilitation in Acquired Brain Damage including Clinical Conditions such as Head Injury; Stroke and Schizophrenia; Cognitive and Emotional Decision Making.

Dr. Manoj Kumar Sharma, Additional Professor:

Behavioral Addiction; E-based Psychological Intervention; Psychological Tool Development; Tobacco Cessation; Substance Use and Prevention; Emotional Dyscontrol & Management, Psychotherapy; Yoga, Religiosity and Spirituality.

Dr. M. Manjula, Additional Professor:

Youth Mental Health Issues; Preventive and Promotive Interventions in Youth; Cognitive Behavior Therapies for Anxiety Disorders; Mood Disorders and Sexual Dysfunctions; Trans Diagnostic Therapies; Process Research in Cognitive Behavior Therapies.

Dr. Devvarta Kumar, Additional Professor:

Cognitive Dysfunction and Remediation in Schizophrenia; Event Related Potentials (ERPs); CNS-based Detection of Deception Techniques, Memory and its Falsifications; Meta-cognitive Therapy for Delusions; Psychological Test Development.

Dr. Poornima Bhola, Additional Professor:

Psychotherapy Process Research; Psychotherapist Development and Training; Youth Mental Health and Self-Injurious Behaviours; Personality Disorders; Gender Variance; Consultation-liaison Issues among Medical and Surgical Conditions.

Dr. M. Thomas Kishore, Associate Professor:

Adult Psychiatry and Community Mental Health Centre; Child and Adolescent Mental Health with special interest in Intellectual and Developmental Disorders and Autism Spectrum Disorders; Infant Mental Health; Early Interventions and School Mental Health Programs.

Dr. B. N. Roopesh, Associate Professor:

Child & Adolescent Mental Health; School Mental Health, Autism; Conduct Disorders; ADHD; Marginalized Children and Development of Psychological Scales; Child Neuropsychology; Development of Neuropsychological tests and Cognitive Retraining; EEG & Event Related Potentials (ERPs) of Psychiatric Disorders.

Dr. Shanthala Hegde: Assistant Professor:

Neuropsychology and Neuropsychological Rehabilitation; Music Cognition/Neuromusicology (EEG, ERP Method of Investigation).

Dr. A. S. Veena, Assistant Professor:

Women's Mental Health; Adult Individual and Couples Psychotherapy; Promotion of Mental Health in Vulnerable Populations.

Dr. Aruna Rose Mary Kapanee, Assistant Professor:

Community Mental Health; Individual and Family Psychotherapy; Creative and Expressive Art in Psychotherapy; Cultural Psychology; and Peace and Conflict Resolution.

Dr. Nitin Anand, Assistant Professor:

Development and Standardization of Psychological Assessments; Cognitive Behavioral and Mindfulness-based Interventions for Anxiety and Depressive Disorders with Special Interest in Obsessive Compulsive Disorder and Human Rights Concerns of Mentally Ill Persons.

Dr. Rajkumari P. Reddy, Assistant Professor:

Forensic Psychology; Neuropsychological Assessment and Neuropsychological Rehabilitation; Cognitive Neuroscience; EEG–Neurofeedback Training; Functional Neuroimaging; and Forensic Neuropsychology.

Dr. Nithya Poornima M, Assistant Professor:

Parenting children and adolescents with mental health issues, Mindfulness; Yoga; Ayurveda for children and adolescents with mental health issues, School mental health services, Consumer friendly child and adolescent clinical services, Self-care in Mental Health Professionals.

Dr. Gitanjali Narayanan, Assistant Professor:

Personality Traits and Personality Disorders especially in connection to Addiction; Qualitative Methods to Study Substance Use Disorders; Application of Integrated Psychotherapy; Dialectical Behavior Therapy in Co-morbid Mental Health Conditions; Ethics in Research Across Different Populations.

Dr. Jyotsna Agrawal, Assistant Professor:

Positive Psychology; Indian Psychology; and Public Mental Health.

Dr. Ajay Kumar, Assistant Professor :

Department of Epidemiology

The department of Epidemiology at NIMHANS, established in 1987, conducts, strengthens and supports epidemiological and public health research in mental health and neurological sciences. Epidemiological and public health research, training, service, policy support and program development form the major domains of the department. The primary objectives of the department are to:

- a. Develop epidemiological information on prioritized mental and neurological disorders and injuries,
- b. Carry out research independently, as well as on a collaborative nature with other departments, organizations, national and international agencies,
- c. Provide inputs for service and teaching programs of the Institute
- d. Collaborate with national and international agencies in promoting evidence based programs

The aim of the department is to develop relevant information on various aspects of different disorders and to incorporate these issues in policy making, planning, programming and implementation of health programs. The current areas of work include injury surveillance, suicide prevention, road traffic injuries, maternal mental health, stroke surveillance, headache disorders, substance abuse, geriatric mental health, health economics, youth health issues. During the previous years, the department provided inputs for health and health related planning, policies and programs in the areas of mental health, Injury Surveillance, Road Safety, Alcohol control, geriatric mental health, prevention and control of non-communicable diseases, Youth Health issues, Occupational health, child mental health and movement disorders .

Courses

1. **Master of Public Health (MPH) : 10 Seats (05 Seats for sponsored candidates from the government sector and 05 Seats for non-sponsored candidates).**

***If the seats are not filled by the sponsored candidates, then those seats will be filled by the eligible candidates from non-sponsored category and vice versa.**

Duration: 2 Years

Minimum Qualification for Admission:

1. Minimum Qualification for Admission for sponsored Candidates: MBBS degree from a recognized University or from any other University recognized as equivalent thereto by NIMHANS/MCI and registered with a State Medical Council and currently working with Central or State Government's health departments or Bachelor of Dental Sciences or Bachelor of Veterinary Sciences or Post Graduate degree in Sociology/Statistics/Environmental Sciences from a recognized University or recognized as equivalent thereto by NIMHANS
2. Minimum Qualification for Admission for non-sponsored. Candidates: MBBS degree from a recognized University or from any other University recognized as equivalent thereto by NIMHANS/MCI and registered with a State Medical Council or Bachelor of Dental Sciences or Bachelor of Veterinary Sciences or Post Graduate degree in Sociology/Statistics/Environmental Sciences from a recognized University or recognized as equivalent thereto by NIMHANS

Program of Study: With a vision to establish a Centre of excellence to foster evidence based public health practices, policies and programs focusing on Mental Health, Neurological, Substance Use and Behavioral Disorders, Injuries and Emerging NCDs, NIMHANS started the Centre for Public Health. The Centre for Public Health started the Master of Public Health (MPH) course from the academic year 2013-14 to bridge the gap in human resources and to strengthen public health capability of health and health related sectors. The Master of Public Health is recognized qualification under the Medical/Dental/Nursing Council of India as deemed in Clause 25 of the NIMHANS Act.

The MPH course aims to develop quality public health specialists who will be able to efficiently and effectively manage the constantly evolving health situation and systems of the country. The course based on adult-learning principles would be skill-based and adopt a modular learner-centered methodology. The course will have mental health, neurosciences as the thrust areas and will also focus on practice of public health principles and tools.

Centre for Public Health (CPH)

The Centre for Public Health was established at NIMHANS to provide strong inputs for strengthening public health components in formulating policies and program development focusing on problems, priorities, challenges and solutions in the areas of mental health, neurological sciences, substance use and behavioral disorders and injuries as well as other NCDs. The major spheres of influence and domains of activities would be public health research, human resource development, advocacy apart from development, implementation, monitoring and evaluation of policies and programs.

A two-year Master of Public Health (MPH) course was started with effect from the academic year 2013-14. The CPH has the expertise to plan and conduct large scale epidemiological studies, undertake operational research (feasibility of public health programs, evaluate health interventions, etc.), establish health surveillance, disease registries, monitor community based interventions, undertake systematic reviews and meta-analysis, support policy analysis as well as guide and advise on program planning, implementation, monitoring and

evaluation at regional, national and international levels. A district level field practice area with a population of 2 to 2.5 million will soon be initiated, which would enable an in-depth examination of the dynamics of the functioning of health services, help us understand determinants of health, provide macro and micro level analyses of health situations and events and serve as a observatory for health managers public health students and researchers.

The CPH offers excellent opportunities for researchers, academicians and policy analysts to address emerging problems. Apart from a large hospital facility that caters to about 5,00,000 patients per year, the department has well established facilities like lecture halls with audio-visual aids, a public health laboratory, demonstration rooms, conference room and several small group discussion rooms. Along with several work stations, standard statistical software is available for data analysis and data presentation. The department also maintains e-databases of several population and hospital-based research programs along with the main Library and Information Centre at NIMHANS. A Public Health Observatory at Kolar district with a population of 1.5 million has been initiated, which provides opportunity for in-depth examination and understanding of the determinants, dynamics of functioning of health services, provides macro and micro level analysis of health situation and events, specifically focused on MNSuDI disorders.

Academic faculty and their research interests

Dr. G. Gururaj, Senior Professor and Head:

Traumatic Brain Injury; Road Traffic Injury; Suicides; Stroke; Prevention of Harm from Alcohol; Epilepsy.

Dr. N. Girish, Professor:

Maternal Mental Health; Geriatric Mental Health; Epilepsy; Prevention of Harm from Alcohol, Health Economics.

Dr. Pradeep B. S., Additional Professor:

Youth Mental Health; Infectious Diseases; Public Mental Health Interventions; Community-Based Rehabilitation for MNSuDIs.

Dr. Gautham M. S., Associate Professor:

Occupational Mental and Neurological Problems; Tobacco Control; Mental Health in Disasters.

Dr. Senthil Amudhan R., Associate Professor:

Child Mental Health including School Mental Health; Role of AYUSH in Mental Health; Psychiatric and Neurological Rehabilitation.

Dr. B. A. Arvind, Assistant Professor:

Urban Mental Health, Stroke.

Department of Human Genetics

The Department of Human Genetics is mainly involved in research, manpower development, teaching and patient care. The research activities of the department are focused on the molecular understanding of the human brain and nervous system disorders. During this year the department has received funding from the national and international agencies to conduct molecular genetics and immunological research on brain tumors and schizophrenia. Five students supported by UGC, CSIR and DST fellowships are currently pursuing their Ph.D in the department. The faculty and students have made significant contribution in their research and published their findings in various international and national journals. The faculty members were invited to contribute book chapters and review articles by reputed international publishers. A number of UG and PG students were trained in the research methodologies pertaining to the complex human genetic disorders. Genetic counseling, both personal and online was provided to the patients and families having sporadic and familial genetic disorders.

Courses

1. Ph.D in Human Genetics: Only external fellowship

Duration: 3 – 5 Years

Minimum Qualification for Admission:

M.Sc in any Life Sciences discipline.

Program of study: Initially, the candidate will be provisionally registered for Ph.D Before confirmation of registration, all the candidates have to complete Pre Ph.D examination after one year from the date of provisional registration. The candidate would be trained in both theory and in practical aspects of the curriculum pertaining to the discipline. Later, the candidate would pursue regular Ph.D research work and submit the thesis for award of Ph.D degree.

Academic faculty and their research interests

Dr. Rajalakshmi Gope, Professor & Head:

Molecular Genetics of Human Brain Tumors; Genetic Counselling; Molecular Biology of Wound Healing.

Dr. G. K. Chetan, Additional Professor:

Constitutional Cytogenetics; Genetic Counseling, Genotoxicity; Genetics of MR and Fragile X Syndrome; Brain Tumor Biology.

Dr. Monojit Debnath, Associate Professor:

Immuno-Genetic Understanding of Psychiatric Disorders; Human Genetic Diversity.

Department of Mental Health Education

The department of Mental Health Education aims to promote the health and wellbeing of individuals and communities through excellence in teaching, research and service in the area of mental and neurological disorders. The department is an integral part of the institute and actively involved in teaching, research and training activities in the field of health education. Over a period of time, the quality and nature of work has improved with advanced technology and digitalization. With minimal resources in the past, the department has large research projects to its credit and developed collaborations with other clinical departments providing quality work. The department provides intensive specialized training in the development of strategies ranging from an individual to systemic level that can assist individuals, communities and societies in adopting and maintaining healthy lifestyles.

The focus of the department of Mental Health Education is to prepare students, health care professionals, caregivers and the community at large to promote health in individual and group settings and among diverse populations using culturally appropriate health education methodologies. Its goal is to facilitate voluntary health-related behavioral and social change through the application of principles of behavioural and social sciences. The department aims at developing health education and training materials that will help in meeting the goals of the National Mental Health Plan. The department has expanded its services and strengthened existing activities with new collaborations.

Courses

1. **Ph.D in Mental Health Education: Only external fellowship***

Duration: 3 – 5 Years

Minimum Qualification for Admission:

Master of Public Health, Health or Behavioural Sciences

Program of Study: Initially the candidate will be provisionally registered for Ph.D. The candidate will be trained in both the theoretical and practical aspects of Mental Health Education as well as research methodology. Before confirmation or registration, all the candidates have to complete Pre-Ph.D examination. After successful completion of the proposed research and approval of the synopsis, the candidate shall submit thesis for Ph.D degree.

2. **Fellowship in Mental Health Education: 04 Seats *(02 seats for sponsored candidates from State/Central Govt./NGO)**

*** If sponsored candidates are available, it will go to the General Pool.**

Duration: 1 Year

Minimum Qualification for Admission:

MBBS/MA/M.Sc/MSW degree in Social Work/Psychology/Public Health/Nursing or any other behavioral sciences obtained through a regular full time course from a recognized university.

Sponsored candidates from State/Central Government/Armed Forces/Other NGO's. Direct candidates as well as those deputed from other organizations can be admitted to the course.

Program of Study: The course shall be conducted at the National Institute of Mental Health and Neuro Sciences (NIMHANS) and as approved by the Institute. During the study period the candidates will work under the guidance of consultant, with academic and clinical responsibilities. The structure of training program includes active participation in departmental and clinical work, seminars, journal clubs, case conferences, didactic lectures, and hands-on training in mental health education strategies. Upon successful completion of the course, candidate shall be awarded the fellowship certificate in Mental Health Education.

Academic faculty and their research interests

Dr. S. K. Chaturvedi, Professor of Psychiatry and I/C Head:

Cancer and Mental Health; Chronic Pain; Psychosomatics; Quality of Life & Consultation – Liaison Psychiatry.

Dr. K. S. Meena, Associate Professor:

Community Mental Health; Suicide Prevention; Developing and Evaluation of IEC; Adolescent Mental Health.

Department of Neuroanaesthesia and Neurocritical Care

The Department of Neuroanaesthesia and Neurocritical Care is involved in providing services to primarily neurosurgery, neurology, psychiatry and neuroradiology departments. The department handles 7 operation theatres for Neurosurgery including 24 hours emergency services (head injury, trauma etc.). Neuroanaesthetists are also involved in the maintenance of neurointensive care (30 beds) which is utmost essential for critical care patients.

Neurology Intensive Care caters to patients with Guillian-Barre syndrome (GBS), myasthenia gravis, stroke, status epilepticus and other neurological patients are admitted to the ICU. The Neuroimaging and Interventional Radiology department performs large number of MRI under anesthesia, 4 vessel angiogram and therapeutic embolization and coiling under anesthesia for various conditions. Psychiatry department requires the help of anesthetists to carry out modified ECT.

Courses

1. DM in Neuroanaesthesia: 04 Seats

Duration: 3 Years

Minimum Qualification for Admission:

MD/DNB in Anesthesia/Anesthesiology

Program of Study: The course envisages training the candidates in the following areas:

- (i) Basic sciences related to Neuroanesthesia
- (ii) Clinical Neuroanaesthesia for neurosurgery
- (iii) Anesthesia for neuroradiological procedures including interventional neuroradiology and magnetic resonance imaging
- (iv) Neuromedical and neurosurgical intensive care
- (v) Principles of research in Neuroanaesthesia
- (vi) Experience in handling modern anesthesia and intensive care equipment.

Research Facilities: The clinical material of the department offers a wide scope for investigation. The department is also equipped with extensive cardiovascular, respiratory and neurological monitoring facilities including pulmonary function testing Transcranial Doppler, bispectral index, spectral entropy, minimally-invasive and non-invasive cardiac output, regional cerebral oxygenation, intraoperative and critical care EEG, bed-side blood gas and electrolyte analysis, anesthetic agent monitoring and cardiac enzyme assessment. Trans-thoracic and transoesophageal echocardiography are being used regularly. In collaboration with other clinical departments, it is possible to study intracranial pressure and related intracranial dynamics.

2. PDF in Neuroanaesthesia: 04 Seats (02 seats for foreign / sponsored candidates)

Duration: 1 Year

Minimum Qualification for Admission:

MD / DNB in Anaesthesia

3. PDF in Neurocritical Care: 03 Seats (02 seats ICMR Fellowship under Centre for Advanced Research and 01 seat sponsored by TVS Group)

Duration: 1 Year

Minimum Qualification for Admission:

MD / DNB in Anaesthesia, MD in Internal Medicine, DM in Neuroanaesthesia, DM / DNB in Neurology or M.Ch / DNB in Neurosurgery.

Program of Study: Students are trained in the following areas:

- (i) General principles of critical care including organization of critical care, scoring systems, admission and discharge criteria, transport of patients.
- (ii) Basic Neuroanatomy and Physiology.
- (iii) Pre hospital and Neurointensive care in patients with neurologic injury.
- (iv) Cerebrovascular accidents.
- (v) Traumatic brain and spinal cord injury.
- (vi) Neurological disease including seizure disorder, peripheral motor neurone disease, infectious diseases of CNS.
- (vii) Monitoring in critical care.
- (viii) Neuroimaging and other radiological investigations.
- (ix) Neurorehabilitation and treatment of complications.
- (x) Research in the Neurocritical care.

Research facilities: The clinical material of the department offers a wide scope for investigation. The department is also equipped with extensive cardiovascular, respiratory and neurological monitoring facilities including pulmonary function testing Transcranial Doppler, bispectral index, spectral entropy, cardiac output monitor, Arterial blood gas machine, anaesthetic agent monitoring and cardiac enzyme assessment. Transthoracic and Transoesophageal echocardiography has been procured and used in the ICU. The department has state-of-the-art high end ventilator for 30 bedded ICU. Ultrasound machine with all probes was procured recently.

4. B.Sc in Anaesthesia Technology: 10 Seats

Duration: 3 Years(plus 1 year of internship)

Minimum Qualification for Admission:

Pass in 2-year Pre-University examination or equivalent with a Science group having secured an aggregate of 45% in Science subjects.

Academic faculty and their research interests

Dr. V. J. Ramesh, Professor and Head:

Outcome in Intensive Care; Subarachnoid Haemorrhage; Mechanical Ventilation.

Dr. G. S. Umamaheswara Rao, Senior Professor & former Director:

Intensive Care; Head Injury; Mechanical Ventilation; Cerebral Blood Flow Studies; Indigenization of Medical Equipment; Music and Anaesthesia; Depth-of-anesthesia Monitoring; Infections in ICU; Critical Care in Neuro-muscular Diseases.

Dr. V. Bhadrinarayan, Professor:

Head Injury; Intensive Care.

Dr. K. R. Madhusudan Reddy, Professor:

Neuroendoscopy; Studies in Intraoperative ICP Measurement.

Dr. M. Radhakrishnan, Additional Professor:

Clinical Investigation in Neuroanaesthesia.

Dr. K. Sriganesh, Additional Professor:

Traumatic Brain Injury (TBI); Neuromonitoring.

Dr. V. Sudhir, Associate Professor

Traumatic Brain Injury (TBI); Neuromonitoring; Ultrasound in Neurocritical Care

Dr. Gopala Krishna K N, Associate Professor:
Traumatic Brain Injury (TBI); and Neurosonology

Dr. Sonia Bansal, Assistant Professor:
Head Injury.

Dr. Rohini M. Surve, Assistant Professor of Critical Care:
Traumatic Brain Injury (TBI); Critical Care.

Dr. Dhritiman Chakrabati, Assistant Professor

Dr. Suparna Bharadwaj, Assistant Professor

Department of Neurochemistry

The department of Neurochemistry is involved in diagnostics, research and teaching. The department offers diagnostic services to all the clinical departments through its 24-hour Clinical Biochemistry Unit (CBU) which is accredited by the National Accreditation Board for Testing & Calibration of Laboratories (NABL), New Delhi. The CBU is furnished with state-of-the-art equipment for analysis of blood, urine and CSF samples. The department also offers high throughput mass spectrometry-based screening tests for Inborn Errors of Metabolism.

The faculty members of the department train Ph.D students and teach basic and applied Neurochemistry for students enrolled in different courses of the Institute and conduct research to understand the pathogenic mechanisms underlying brain disorders.

Courses

1. Ph.D in Neurochemistry: Only External Fellowships

Duration: 3 – 5 Years

Minimum Qualification for Admission:

M.Phil in Neurosciences / M.Sc in Biochemistry / M.Sc in Medical Biochemistry / M.Sc in Biotechnology

Program of Study: Initially, the candidate will be provisionally registered for Ph.D before confirmation of registration; all the candidates have to clear the pre Ph.D examination, after one year from the date of provisional registration. The candidate would be trained in both theoretical and practical aspects of the curriculum of Pre-Ph.D course work. After satisfactory completion of proposed work and approval of synopsis, the candidate shall submit thesis for Ph.D degree.

Area of Research Interests: Research activities of the department involve both applied and basic aspects of mental health and neurosciences. Some of the current areas of research are molecular and genetic basis of cerebrovascular disorders, biochemical basis of neurometabolic disorders, molecular mechanisms in brain aging, Parkinson's disease, Alzheimer's disease, traumatic brain injury, neuromuscular disorders and primary brain tumors and their therapeutic implications.

2. Post Graduate Certificate Course in Clinical Biochemistry : 04 Seats

Duration: 1 Year

Minimum Qualification for Admission:

M.Sc in Biochemistry with a minimum of 50% aggregate marks

Academic faculty and their research interests

Dr. Rita Christopher, Professor and Head:

Targeted Metabolomics in Neurometabolic and other Neurological Disorders.

Dr. Sarada Subramanian, Additional Professor:

Development of Animal Models; Elucidation of the Molecular Mechanisms; Design of Therapeutic Strategies for Alzheimer's Disease and related Cognitive Disorders.

Dr. M. M. Srinivas Bharath, Additional Professor:

Red-ox and Mitochondrial Dynamics in the Pathophysiology of Brain and Muscle.

Dr. D. N. Nanda Kumar, Additional Professor:

Molecular Mechanisms of Primary Brain Tumors with Emphasis on Growth Angiogenic Signaling and Invasion of Glioblastoma and its Therapeutic Targets.

Dr. H. Ravish, Assistant Professor:

Assessment of Health Status of Brain and Nervous System, using Chemical Nano-biosensors

Department of Neuroimaging and Interventional Radiology

The department of the Neuroimaging and Interventional Radiology is an important department of the Institute delivering both diagnostics and interventional services for the management of neurological and non-neurological disorders. The department performs vascular and nonvascular neuro radiological interventions, and it is actively involved in endovascular management of neurovascular disorders such as of cerebral AVM's, aneurysms, dural AVFs, CCFs, vein of Galen aneurysmal malformation, spinal AVM and AVFs, various intracranial and extracranial, facial AVM & fistulas. In addition, minimally invasive non vascular procedures like facetal injection, vertebroplasty, trigeminal rhizotomy etc, for pain management are performed. Pre-surgical embolization and intraoperative embolisation for devascularization of vascular tumors are also done. The above mentioned diagnostics and interventional services are being provided at minimal cost to the patients and there is a steady increase in the number of patients availing care at Neuroimaging and Interventional Radiology. To keep up with the technological advances in the field, the department takes utmost care in procuring state of the art, top of the line equipment. Molecular Imaging facility for simultaneous acquisition of PET MRI has been added last year. Cyclotron facility to provide the radiopharmaceuticals will be functional in the coming year and Animal MR PET facility will be added in due course. The department takes lead role in training manpower for the country and is running a 3-year DM Neuroimaging and Interventional Radiology (NIIR) course. It is also involved in providing education related to imaging and intervention to postgraduate students from Radiology, Neurology, Psychiatry and Neurosurgery from NIMHANS and other institutions and medical colleges as part of their course requirement. Students from various parts of the country come to NIMHANS for short-term training.

The department has:

- a. Three state-of-the-art 16 slice CT scanners with CT Angiography, CT Perfusion, BMD and CT guided minimally invasive procedures like biopsy.
- b. Two Biplane digital Subtraction Angiography for diagnostic and interventional management of neurovascular diseases with 3T rotational angiography, Dyna/Extent CT and DSA guided fluoroscopic intervention facilities. Five bedded post procedure observation ward.
- c. Five state-of-the-art top of the line MRI Scanners, out of which two are 3T units with facilities like MR Angiography, Perfusion, Proton, Phosphorous, Carbon Spectroscopy and Sodium Imaging. Image processing facilities for functional MRI including both task and resting state functional analysis, connectivity analysis and multimodal network analysis.
- d. Molecular imaging and SPECT and MR-PET for tumor, epilepsy imaging, imaging of neurodegenerative and psychiatric disorders.

- e. Computerized Radiography and Digital Radiography system.
- f. Picture Archival and Communication System with Radiology System integrated with HIS.
- g. Two state-of-the-art ultrasound equipment for routine imaging, nerve and muscle imaging and transcranial doppler.

Courses

1. **Ph.D in Neuroimaging and Interventional Radiology: Only External Fellowships**

Duration: 3 – 5 Years

Minimum Qualification for Admission:

MBBS/MD or DNB in Radiodiagnosis/M.Sc in Medical Subjects/BE/B.Tech/M.Tech Degree

2. **DM in Neuroimaging and Interventional Radiology: 04 Seats (01 Seat for sponsored candidate)**

Duration: 3 Years

Minimum Qualification for Admission:

MD in Radiodiagnosis/DNB in Radiodiagnosis Clinical and Research Facilities:

3. **B.Sc in Radiography: 10 Seats (04 seats for sponsored; 05 seats for Post Diploma candidates)**

Duration: 3 years

Minimum Qualification for Admission:

- a) Pre-University examination conducted by the Department of Pre-University Education or any recognized State Board with English and Physics, Chemistry, Biology and Mathematics as optional subjects with 45% aggregate.
- b) Job oriented Diploma course from a recognized Board with Diagnostic Radiography as vocational subject or equivalent.
- c) Any equivalent examination recognized by the NIMHANS, Bengaluru for the above purpose with Physics, Chemistry, Biology and Mathematics as principal subjects of study with 45% aggregate.
- d) The candidate should be medically fit.

Academic faculty and their research interests

Dr. Arun Kumar Gupta, Professor and Head:

Interventional Neuroradiology; Advanced Neuroimaging; Materials for Interventional Radiology; PACS.

Dr. Rose Dawn Bharath, Additional Professor:

Functional MRI Applications in Pre-operative Work Up; Psychiatric Neuroimaging; Cognitive & Behavioral Sciences; Advanced Imaging Techniques like Spectroscopy; DTI in Neurosciences; CT and MR Perfusion Imaging in Tumors and Vascular Disorders and Infections.

Dr. Hima Shriniwas Pendharkar, Additional Professor:

Diagnostic Noninvasive Imaging of neurovascular Lesions; Interventional Endovascular Treatment of all Neurovascular – Arterial & Venous Lesions.

Dr. H. R. Aravinda, Additional Professor:

Diagnostic Neuroimaging – Application of Perfusion and Diffusion MR Imaging of Brain Tumors and Mass Lesions; Endovascular Treatment of Brain and Spinal AVM; Dural AV Fistulae and Aneurysm Coiling.

Dr. Jitender Saini, Additional Professor:

Diagnostic and Interventional Neuroradiology.

Dr. Chandrajit Prasad, Additional Professor:

Proton and Phosphorus MRS, Perfusion Study in Mass Lesion; Diffusion Tensor Imaging; Neurointervention including Thrombolysis; Aneurysm Coiling and Treatment of AVM and Fistulas.

Dr. Maya Dattatraya Bhat, Associate Professor:

Pediatric Neuroradiology Imaging of Neuroinfections; Diffusion Tensor Imaging.

Dr. M. Sandhya, Assistant Professor:

fMRI, Molecular Imaging; Cognitive Neurology; Multimodal Imaging; Simultaneous EEG-fMRI, Resting fMRI and Connectivity; Image Processing DTI VBM FSL; Epilepsy.

Dr. Chandana, Assistant Professor (Nuclear Medicine):

Molecular Imaging, Neuro Oncology, Epilepsy, Radionuclide Labeling, Movement Disorders, Nuclear Medicine Therapy- Dosimetry Studies.

Department of Neurological Rehabilitation

Neurological Rehabilitation Department, the only such department in the country caters to the rehabilitation needs of patients with disabilities due to a wide range of neurological and neurosurgical disorders. The department receives referrals from not only across the length and breadth of the country but also from overseas. The work in the department also includes corrective surgeries for patients with cerebral palsy and decubitus ulcers. Urodynamic Lab facilitates provides opportunities for precise diagnosis and clinical research work. The department has got 22-bedded indoor facilities for inpatient rehabilitation. With significant contribution from paramedical staff like physiotherapists, occupational therapists and orthotic technician, and one faculty each from psychiatric social work department and Clinical Psychology department working with rehabilitation team, this is a multi-disciplinary Neurological Rehabilitation facility in true sense.

Courses

1. Ph.D in Neurological Rehabilitation: Only External Fellowships

Duration: 3 – 5 Years

Minimum Qualification for Admission:

A Candidate who has obtained following degrees from recognized university securing not less than 55% marks, MBBS, Master in Physiotherapy (MPT), Masters in Occupational therapy (MOT), Masters in Orthotics & Prosthetics, M.Phil in Clinical Psychology, M.Phil in Psychiatric Social Work, M.Phil in Clinical Neurosciences, M.Sc in Nursing and M.Sc in Speech Therapy, MD/DNB in Physical Medicine & Rehabilitation can register for Ph.D examination after one year from the date of provisional registration.

Program of Study: The candidate would be trained in research methodology, theoretical and practical aspects of the curriculum on Ph.D for the duration of 3 years. All the candidates have to complete Pre-Ph.D examination after one year from the date of provisional registration.

Exemption: Faculty working in the department of Neurological Rehabilitation in NIMHANS will not be required to appear for Pre-Ph.D examination (to be considered as per institutes' guidelines). For such candidates the duration of Ph.D will be for two years.

Research Facility: Clinical Neurological rehabilitation OPD and inpatient facilities, dynamic posturography, treadmill with bodyweight support, urodynamic laboratory, gait analysis laboratory, CANTAB for cognitive assessment, Hand robot and fully equipped occupational therapy and physiotherapy sections.

2. PDF in Neurological Rehabilitation: 02 Seats

Duration: 1 year

Minimum Qualification for Admission:

MD / DNB (Physical Medicine & Rehabilitation)

Program of Study: To train physiatrists in neurological rehabilitation. Training is offered to post graduates in Physical Medicine and Rehabilitation.

Research Facility: Comprehensive Neurological Rehabilitation Unit with out-patient and in-patient services; well-equipped Physiotherapy, Occupational Therapy and Orthotic Sections with equipment like body weight support treadmill, dynamic posturography, robotic hand therapy and CANTAB for cognitive assessment; state-of-the-art Gait Analysis Laboratory and Urodynamic Study Lab.

Academic faculty and their research interests

Dr. Anupam Gupta, Professor & Head:

Traumatic Brain Injury; Stroke Rehabilitation; Spinal Cord Injury; Cerebral Palsy & Neurogenic Bladder.

Dr. Meeka Khanna, Associate Professor:

Spinal Cord Injury; Urodynamics.

Department of Neurology

Courses

1. **DM Degree in Neurology: 14 Seats** : 4 Seats for Post MBBS
10 Seats for Post MD/DNB – Within this 01 seat is for sponsored candidate. However, if sponsored candidates are not available, it will go to the general pool

Duration : 5 years for post MBBS candidates
3 years for post MD/DNB candidates

Minimum Qualification for Admission:

- 1) MBBS or
- 2) MD/DNB in Internal (General) Medicine or Pediatrics

Facility: The department of Neurology has experienced faculty with varied research interests. It offers research facilities in the areas of diagnosis and management of various acute and chronic neurological disorders. This is backed by well-developed electro diagnostic laboratory with facilities for EEG, electroneuromyography, evoked potentials; long term video EEG, transcranial magnetic stimulation, sleep laboratory, motor physiology laboratory, magnetoencephalography and Doppler ultra-sonography. The department runs specialty clinics for patients with neuromuscular disorders, refractory seizures, movement disorders and Wilson's disease and also has specialized stroke unit, neuro critical care and exclusive neuro infection wards.

2. **PDF in Neurology**
- a) Epilepsy : 02 Seats (01 seat for sponsored)
 - b) Movement Disorders : 02 Seats (01 seat for sponsored)
 - c) Neuromuscular Disorder : 01 Seats
 - d) Stroke : 01 Seats
 - e) Paediatric Neurology : 01 Seats

Duration: 1 Year

Minimum Qualification for Admission:

DM/DNB in Neurology

3. Diploma Course in Clinical Neurophysiology Technology: 06 Seats (02 seats for sponsored candidates)

Duration: 2 Years

Minimum Qualification for Admission:

B.Sc with Physics/Electronics/Computer Sciences with minimum II Class in the qualifying examination
OR

Diploma in Electronics/Electrical/Instrumentation/Computer (approved by Board of Technical Education)

OR

3 years' experience as EEG Technician after PUC.

Academic faculty and their research interests

Dr. Pramod Kumar Pal, Professor and Head:

Parkinson's Disease and other Movement Disorders; Ataxias Psychogenic Movement Disorders; Human Motor Physiology including Transcranial Magnetic Stimulation; Genetics and Neuromaging of Extraparamidal Disorders.

Dr. P. Satish Chandra, Senior Professor & former Director:

Epilepsy; Neuroepidemiology; Neuroinfections; Neuro-AIDS; Epilepsy and Genetics; Electroencephalography and Evoked Potentials.

Dr. S. R. Chandra, Professor:

Cognitive and Behavioural Sciences and Dementia.

Dr. Arun Kumar B. Taly, Professor:

Neurological Rehabilitation; Neuromuscular Disorders; Sleep, Mitochondrial Disorders; Wilson's Disease.

Dr. M. Veerendra Kumar, Professor:

Neurocysticercosis; Clinical Electrophysiology; Advanced EMG.

Dr. A. Nalini, Professor:

Motor Neuron Disease; Neuromuscular Disorders.

Dr. Sanjib Sinha, Professor:

Epilepsy; Sleep; Electroencephalography; Wilson's Disease; Magneto-encephalography.

Dr. Suvarna Alladi, Professor:

Cognitive Neurology with reference to Alzheimer's Disease; Frontotemporal Dementia and Vascular Cognitive Impairment; Protective and Risk Factors for Cognitive Decline in Aging.

Dr. P. S. Bindu, Professor:

Pediatric Neurology; Mitochondrial Disorders; Neurometabolic and Neurogenetic Disorders; Leukoencephalopathies.

Dr. P. S. Mathuranath, Additional Professor:

Cognitive Neuroscience.

Dr. Girish Baburao Kulkarni, Additional Professor:

Stroke; Headache; Neuroepidemiology.

Dr. Ravi Yadav, Additional Professor:

Parkinsonism and Related Disorders; Headache; Neurocritical Care.

Dr. M. Netravathi, Associate Professor:

Demyelinating Disorders; Auto Immune Encephalitis; Pediatric Movement Disorders and Neuroinfections.

Dr. N. Madhu, Associate Professor:

Inherited and Acquired Neuropathies, Mitochondrial Disorders, Neurogenetics, Immune Mediated Neurological Diseases viz. Guillain-Barre Syndrome and Myasthenia Gravis; Sleep; Magnetoencephalography.

Dr. R. Subasree, Assistant Professor:

Guillain-Barre Syndrome; Peripheral Neuropathy; Clinical Neurophysiology; Cognitive Neuroscience and Neuro-ophthalmology.

Dr. Ravindranadh Chowdary, Assistant Professor:

Epilepsy; Electrophysiology (including VEEG and MEG); Stroke; Movement Disorders; Neuroimmunology.

Dr. M. Pooja, Assistant Professor:

Movement Disorders; Neuro-ophthalmology; Cognition.

Dr. Nitish Kamble, Assistant Professor

Dr. K. Raghavendra, Assistant Professor

Department of Neuromicrobiology

The department of Neuromicrobiology has been functioning at this Institute since 1978 and continues to provide clinical diagnostic services in central nervous system infections. Teaching facilities for the post-graduate students of the departments of Neurology, Neurosurgery, Psychiatry and Nursing are provided. The department is actively involved in conducting research in certain identified thrust areas of Neuro-infections, Neuroimmunology, Immunodiagnostics of neuroinfections, Molecular diagnosis of Neurotuberculosis and other opportunistic infections in Neuro AIDS. The immunology section established in the year 1991-1992, especially for the immune diagnosis of Tuberculous meningitis has been expanded to include other CNS infections and has been further strengthened with the available facilities. Many other centres in the country are availing this diagnostic facility. Molecular diagnostic section carried out routine Polymerase chain reaction in cases of tuberculous meningitis and chronic meningitis both for Institute patients and also for all the referred cases from different neuro centres from Bengaluru and other parts of the State.

Another thrust area of this department is neurocysticercosis and its immune diagnosis. After intensive research, an immunodiagnostic test with a high specificity and sensitivity, which can be performed both on CSF and serum, is being used at this department for the diagnosis of neurocysticercosis. Many such cases are referred from other hospitals and institutes from various parts of India for this diagnostic test.

The emergency laboratory services at the Neuro Centre are provided round the clock. Hospital Infections Surveillance System unit of this department, which was started in 2002, has been in regular service with timely visits by the team to the operation theatres, postoperative wards, and ICUs. The team also conducts regular classes and updates on the practice of prevention of hospital infections and need for universal precautions regularly from time to time. The meetings with the Medical Superintendent and the teams from anesthesia, Neurosurgery, Neurology and Psychiatry are held every 3-4 months. Hospital infections strains area is being preserved routinely for further molecular typing for epidemiology of hospital infections.

Courses

1. Ph.D in Neuromicrobiology: Only External Fellowships

Duration: 3 – 5 Years

Minimum Qualification for Admission:

MBBS / MD Microbiology / BE Biotechnology / M.Phil Neuroscience / M.Sc in Medical Microbiology / Microbiology / Biotechnology / Molecular Biology / MLT / Applied Microbiology / Biochemistry / Biomedical Genetics / Neuroscience

Program of Study: Initially, the candidate will be provisionally registered for Ph.D before confirmation of registration all the candidates have to complete Pre-Ph.D examination after one year from the date of provisional registration. The candidate would be trained in both theoretical and practical aspects of the curriculum of Pre-Ph.D examination. After satisfactory completion of proposed work and approval of synopsis, the candidate shall submit thesis for Ph.D candidates with fellowship from registered/ recognized agencies only are eligible to apply for Ph.D in Neuromicrobiology.

Research Facilities: The department has state-of-the-art facilities for microbiological diagnosis of routine samples. It also has facilities like 24x7 CSF processing laboratory, Mycobacteriology laboratory with automated culture system, bacteriology laboratory with automated culture and sensitivity systems, mycology section and ELISA, DNA/RNA isolation, amplification using thermocycler (PCR), genotyping, among others.

2. PDF in Neuroinfections: 02 Seats (01 seat for sponsored)

Duration: 1 Year

Minimum Qualification for Admission:

MD in Microbiology

Program of study: The Fellowship program shall be conducted at NIMHANS and such other Centres approved by NIMHANS. During the period of study, the candidate has to work under the guidance of the faculty of Neuromicrobiology and Neurovirology, with academic and diagnostic responsibilities. Active participation in seminars, journal clubs, case conferences, didactic lectures shall form the main structures of the fellowship program. The candidate shall be required to share the duties of Senior Resident and participate in all the teaching and training programs of the two departments where they are posted.

3. PDF in Hospital Infection Control: 01 Seat (01 seat for sponsored)

Duration: 1 Year

Minimum Qualification for Admission:

MD / DNB in Microbiology

Academic faculty and their research interests

Dr. Shripad A. Patil, Professor and Head:

Immunology of Autoimmune Diseases of the Central and Peripheral Nervous System including Leprosy; Development of Immunodiagnosics for Chronic Infectious Disease of CNS with special reference to CNS TB Meningitis and Neurocysticercosis; Molecular and Cultural Diagnostic Tests for TB like MGIT, PCR and other Drug Resistant Detection Tests.

Dr. R. Ravikumar, Professor:

Opportunistic Bacterial, Parasitic, Fungal and Protozoal Infections like Tuberculosis, Toxoplasmosis, Amoebic Encephalitis and other Neuroinfections in Immunocompromised Individuals.

Dr. S. Nagarathna, Professor:

CSF Cell Analysis; Cytological Studies and Bacterial Isolation in Pyogenic Infections of the Brain; Delineating Cryptococcal Meningitis in AIDS Patients with Clinical Correlation; Study of Mortality and Morbidity; Study of Neurofructaloris and Troplarmoris.

Dr. H. B. Veena Kumari, Additional Professor:

Isolation and Molecular Analysis of Microbial Strains Isolated from Hospital Infections in a Neurosurgery and ICU set up of NIMHANS.

Department of Neuropathology

The Department of Neuropathology encompasses the following sections: 1) Histopathology, 2) Electron Microscopy 3) Human Brain Tissue Repository 4) Neuropathology Museum and 5) Autopsy Service Sections (Mortuary). Transfusion Medicine Centre and Hematology which was a part of the department of Neuropathology is now a separate department, since September 2015.

The department provides expert Neuropathology services to neuroscientists within and outside the institute. The year 2014-15 saw an increasing demand for its diagnostic, teaching and research activities. The autopsy service is available at all hours to facilitate clinical autopsies. The histopathology section of the department has obtained the prestigious NABL (National Accreditation Board for Testing and Calibration Laboratories) Accreditation for Medical Laboratory as per ISO 15189:2012, and is currently the sole super specialty government histopathology laboratory with this credit.

The Histopathology section provides high quality diagnostic Neuropathology services. It serves as a nodal referral centre for several hospitals and Institutions throughout the country and abroad.

The Electron microscopy section, a common research facility, contributes to the ultrastructural study of muscle, nerve, skin and brain tissues. The department has a state-of-the-art Mortuary which runs 24x7 and conducts clinical autopsies and medicolegal autopsies.

The Human Brain Tissue Repository (HBTR/Brain Bank), a unique national facility, provides tissues and fluids from normal and diseased states for researchers in the field of Neurobiology.

The Neuropathology Museum, with well-maintained specimens, is a star attraction for a large number of curious minds. The research activities of the faculty has translated into the establishment of newer tests and establishment of a self-sustaining advanced diagnostic facility for Neuromuscular, Autoimmune and Neuro-oncology diseases utilizing molecular and specialized serological testing.

Comprehensively, the department offers the much needed and appreciated resources and expertise for training Post-Doctoral fellow (PDF), DM and Ph.D students. After successfully conducting the PDF course in Neuropathology for more than a decade, the department has initiated the course of DM in Neuropathology for the first time in the country for capacity building and manpower development. The course started in July 2015 and the first DM student is pursuing the program. The department has also initiated 'Post Graduate Certificate course Neuro-Histopathology and Electron Microscopy Technology' starting from the academic year 2016.

Courses

1. Ph.D in Neuropathology: Only External Fellowships

Duration: 3 – 5 Years

Minimum Qualification for Admission:

MD in Pathology / M.Sc in Life Sciences/MBBS

Program of Study: The student upon admission will be provisionally registered to the course. A Pre-Ph.D examination is conducted within one year from the date of provisional registration. The registration is confirmed only after successfully completing the Pre-Ph.D examination. As per curriculum, the student also has to undergo the various theory and practical training modules pertaining to the discipline that is conducted at the Institute for Ph.D scholars. The Ph.D course work of these scholars is closely monitored by a Ph.D Doctoral committee, comprising internal and external experts, nominated by the institute. Successful completion of the Ph.D course requires submission of the research work and acceptance of dissertation towards the award of the Doctoral Degree.

Research Facilities: A well-established Histopathology Laboratory for processing muscle, peripheral nerve, brain, spinal cord and other tissues with special stains, enzyme histochemistry and immunohistochemistry, Transmission Electron Microscopy Facility, Human Brain Tissues Repository for neurobiological studies (Human Brain Bank) – A National Research Facility and Diagnostic Molecular Pathology Laboratories and autopsy facilities constitute the major research facilities extended. Well-characterized brain tissues and CSF/serum collected post mortem are frozen and achieved in the Brain Bank and are available for research. Facilities for research in neuro-oncology, neuromuscular disorders and autoimmune disorders are available in the Neuro-oncology/Neuromuscular Research Laboratories located in the Neurobiology Research Centre. Platforms for immunohistochemistry, fluorescent in-situ hybridization, tissue micro array, PCR and advanced imaging, Western blot, Immunoblots, Mitochondrial enzyme arrays, DNA sequencing facility and Auto immune testing facility are some of the other facilities available.

2. DM in Neuropathology: 02 Seats (01 seat for sponsored candidate)

Duration: 3 Years

Minimum Qualification for Admission:

MD/DNB in Pathology

Program of Study: The students are trained in diagnostic, molecular and ultrastructural Neuropathology and are exposed to teaching and research activities. They also receive comprehensive training in related aspects of clinical and basic neurosciences. The students gain proficiency in diagnostic neuropathology from the extensive exposure to large number of biopsies received for diagnosis. Participation in the clinicopathologic slide sessions and brain cutting conferences provides insight into clinical, radiological and therapeutic implications of diagnosis. Taking part in regular academic activities of the department augments their learning/teaching capabilities. The clinical autopsy rotations provide exposure and training in the techniques of brain removal, anatomy and evaluation of cause of death. The abundant surgical and autopsy material provides ample opportunity for research. The program is aimed at holistically nurturing the students to gain expertise in diagnostic neuropathology, to carry out research and imparting teaching, thus enhancing capacity building in the nation in the field of Neuropathology.

3. PDF in Neuropathology: 02 Seats

Duration: 1 Year

Minimum Qualification for Admission:

MD/DNB in Pathology

Program of Study: The fellows are trained in diagnostic, molecular and ultrastructural Neuropathology. They actively participate in routine work, assist in diagnosis, undertake autopsies and participate in teaching sessions of Neuropathology department and allied departments. Adequate diagnostic and research facilities are available for the students.

Diagnostic and Research Facilities: Well-established Histopathology laboratory for processing muscle, peripheral nerve, brain, spinal cord from human and animal origin with special stains and Immunohistochemistry, Transmission Electron Microscopy Facility, Human Brain Tissue Repository for Neurobiological Studies (Human Brain Bank) – a national research facility, Transfusion Medicine Centre, Clinical Pathology and a Diagnostic Molecular Pathology Laboratory. Clinical /autopsies are regularly carried out for establishing the cause of death and progression of the disease. Well-characterized brain tissues and CSF/serum collected post-mortem are frozen and archived in Brain bank and are available for research. Facilities for research in neuro oncology and neuromuscular disorder are available in the Neuro-oncology/Neuromuscular research laboratory located in the Neurobiology Research Centre. Other facilities available include platforms for immunohistochemistry, fluorescent in-situ hybridization, tissue micro array, PCR and advanced imaging platforms, Western blot, Immunoblots, Mitochondrial enzyme arrays, Auto immune tests and Molecular Genetics.

4. Certificate Course in Neuropathology Technology: 02 Seats

Duration: 1 Year

Minimum Qualification for Admission:

B.Sc MLT/B.Sc Life Sciences, DMLT(with one year experience) with a minimum of 50% aggregate marks

Mode of Selection:

Minimum 50% aggregate marks, highest marks in qualifying examination

Program Structure:

The program will provide the aspirants with theory knowledge and practical skills in specialized histopathology techniques with special reference to neuropathology and electron microscopy.

Students enrolled in this program will participate in a curriculum designed to expose them to the everyday workflow of a Neuro-histopathology Laboratory and teach them the knowledge and skills necessary to work as a fully competent Histopathology Technician with expertise in Techniques and other specialized techniques such as immunohistochemistry, electron quality control & quality assurance, laboratory safety, audit and inventory management, as part of the curriculum. The program awards a certificate of completion to students completing the program.

Academic faculty and their research interests

Dr. Vani Santosh, Professor and Head:

Molecular Neuro Oncology; Pathology of Cerebrovascular Disorders.

Dr. S. K. Shankar, Emeritus Professor & former Director:

Brain Banking; Prion Diseases; Neuroinfections; Epilepsy; Neurodegeneration.

Dr. T. C. Yasha, Professor:

Pathology of Peripheral Nerves; Neurodegenerative Diseases; Pathology of Neurometabolic Disorders.

Dr. N. Gayathri, Professor:

Neuro Muscular Diseases; Neuro Metabolic Disorders; Ultrastructural Pathology.

Dr. Anita Mahadevan, Additional Professor:

Neuroinfections; Peripheral Neuropathology; Epilepsy; Developmental Disorders of CNS; Fetal Neuropathology; Brain Banking.

Dr. B. K. Chandrasekhar Sagar, Additional Professor:

Ultrastructural Neurobiology; Developmental Neurobiology; Ultrastructural Pathology.

Dr. B. N. Nandeesh, Assistant Professor:

Neuroncology; Neuromuscular Disorders; Enteric Nervous System and Ultrastructural Neuropathology.

Department of Neurophysiology

The Department of Neurophysiology was started in the year 1975 with the objectives of providing teaching program in the discipline of neurophysiology for students undertaking various courses in NIMHANS, to conduct state-of-the-art research with a high degree of translational content and to play an important role in manpower capacity building in the area of neuroscience. The department also provides clinical/diagnostic services in the area of autonomic and pulmonary function as well as sleep evaluation for neuropsychiatric patients.

M.Phil and Ph.D courses in Neurophysiology were initiated in 1980 and so far 80 Ph.D and 50 M.Phil degrees have been awarded. The department provides short-term training opportunities to students (MD physiology, B.Tech/M.Tech Biotechnology, M.Sc Life Sciences, etc.) from various Indian Universities and other recognized educational institutions. The members of the faculty successfully obtains extramural research grants from major National funding agencies like DBT, SERB, DST, CCRYN, DRDO, CSIR, ICMR and CCRAS as well as industries such as Pfizer, Asia and ITC Life Science and Technology Centre for supporting their research studies. The Department has collaborative research programs with several Departments within NIMHANS as well as with other Institutions in India and abroad like National Centre for Biological Sciences (NCBS), Bangalore; Banaras Hindu University, Varanasi; Massachusetts Institute of Technology, U.S.A; University of Sydney and Trinity College, Dublin. The recognition of the departmental activities at the national level is reflected by the fact that the faculty of the department is constantly sought after to conduct training programs/workshops/conferences by professional bodies and funding agencies.

Courses

1. **Ph.D in Neurophysiology: 02 Seats (under institute fellowship).**
Candidates with external fellowship are also admitted.

Duration: 3 – 5 years

Minimum Qualification for Admission:

M.Phil in Neuroscience / Neurophysiology / MBBS / MD in Physiology / MD in Ayurveda/ Yoga & Naturopathy /BE /B.Tech. Electronics /Electrical / Computer Science / Biotechnology / M.Sc in Physiology / Biochemistry / Anatomy / Neuroscience / Life Science / Biotechnology / Zoology / Masters in Physiotherapy / Masters in Unani Medicine

Program of study: Initially the candidates will be provisionally registered for Ph.D. Before confirmation of the registration, all the candidates have to complete Pre -Ph.D examination. The candidate would be trained in both theoretical and practical aspects of the curriculum pertaining to the discipline. After

satisfactory completion of proposed research work and approval of synopsis, the candidate shall submit the thesis for award of Ph.D degree.

2. M.Phil in Neurophysiology:02 Seats

Duration: 2 years

Minimum Qualification for Admission:

MBBS / BAMS (Ayurveda) / BDS / M.Sc in Physiology / Masters in Neuroscience / Anatomy / Biochemistry / Zoology / Biotechnology / Life Science / Molecular Biology / Bachelors in Unani Medicine

Program of study: The course consists of lectures, seminars, laboratory work and dissertation. The course aims at training students to acquire comprehensive knowledge of Neurophysiology from the organism to the cellular level. The areas covered include: (i) cellular and developmental neurobiology (ii) mechanisms of the systems of sensation, movement and posture (iii) mechanisms of nervous systems governing visceral and endocrinal processes (iv) neurophysiology of consciousness and higher nervous activity (v) clinical neurophysiology, electroencephalography and neural imaging and (vi) research methodology covering research techniques in neurophysiology.

The candidates will actively participate in seminars and journal clubs and acquire skills in critically evaluating research findings. They would be exposed to research methodologies covering various aspects of Neurophysiology through postings in several laboratories of the department. Each candidate is expected to acquire a wide range of experimental neuroscience skills. The candidates will carry out specific research project, which will be presented in the form of a dissertation.

Research Facilities: Laboratory facilities are available to carry out research in the following areas:

- 1) Neurophysiology of sleep, cognition and consciousness
- 2) Autonomic functions including HRV and BP variability
- 3) Evaluation of pulmonary functions in neuropsychiatric disorders
- 4) Neurobiology of sleep and memory systems
- 5) Cellular and molecular mechanisms of learning and memory
- 6) Neuronal plasticity in developing and adult nervous system
- 7) Neurobiology of motor neuron disease
- 8) Neurobiology of stress, anxiety, depression, epilepsy and brain stimulation reward
- 9) Central nervous system regeneration and the role of stem cells
- 10) Synaptic physiology
- 11) Neural plasticity and brain repair mechanisms
- 12) Activation of resident stem cells in the adult brain: Implications for the treatment of neuropsychiatric disorders
- 13) Single unit recording of action potentials in a freely moving animal.

- 14) Neurobiology of Emotion
- 15) Neurobiology of Yoga & Ayurveda
- 16) Neural mechanisms of aging and Parkinson's disease
- 17) Synaptic plasticity using extracellular field potentials and patch-clamp recordings
- 18) Neurobiology of addiction and drug dependency

Academic faculty and their research interests

Dr. Bindu M. Kutty, Professor and Head:

Role of Subiculum in Spatial Learning and Memory Functions; Neurobiology of Sleep/Neurophysiology of Meditation/Consciousness.

Dr. T. R. Raju, Senior Professor:

Animal Model of Motor Neuron Disease; Trophic Factors; CNS Regeneration and Role of Stem Cells; Neuronal Plasticity.

Dr. T. N. Sathyaprabha, Professor:

Autonomic and Pulmonary Functions in Neuropsychiatric Disorders; Neurophysiology of Yoga; Neurobiology of Motor Neuron Disease.

Dr. B. S. Shankaranarayana Rao, Professor:

Cellular and Molecular Mechanisms of Learning and Memory; Amelioration of Stress Epilepsy and Depression Induced Cognitive Deficits; Mechanisms of Synaptic Plasticity in the Hippocampus; Activation of Resident Stem Cells in the Adult Brain: Implications for Treating Neuropsychiatric Disorders; Synaptic Plasticity in Transgenic and Knockout Mouse Models of Neuropsychiatric Disorders; Neural Plasticity and Brain Repair Mechanism.

Dr. Laxmi T. Rao, Additional Professor:

Information Processing at the Neuronal Circuitry of the Hippocampus, Amygdala and Prefrontal Cortex due to Early Adverse Experience; Information Processing in the Somatosensory Cortex during and following Focal Ischemia.

Dr. K. Vijayalakshmi, Assistant Professor:

Patient Specific iPSCs in Modeling Neurodegenerative Diseases; Delineating the Etiopathogenesis of Sporadic ALS using Cell Culture and Animal Models; Ayurvedic Interventions for Treating ALS.

Dr. B. N. Srikumar, Assistant Professor:

Neurosteroids in Neuropsychiatric Illnesses; Neurobiology of Addiction; Drug Discovery and Pharmacology of Ion Channels and Channelopathies.

Department of Neurosurgery

The Department of Neurosurgery is one of the premier neurosurgical training centres in the country. The department provides quality patient care, provides one of the most comprehensive neurosurgical residency programs and is involved in cutting edge basic and translational research. The residency program aims to equip the next generation of neurosurgeons with contemporary neurosurgical skills and foster a healthy research interest.

Courses

1. **M.Ch in Neurosurgery: 10 Seats** : **04 Seats for Post MBBS**
06 Seats for Post MS/DNB – Within this 01 seat for sponsored candidate. However, if sponsored candidates are not available, it will go to the general pool

Duration: 5 years for post MBBS candidates
3 years for post MS/DNB candidates

Minimum Qualification for Admission:

- 1) MBBS or
- 2) MS/DNB in General Surgery

Training facilities: There are 7 functioning neurosurgical theatres which host the most advanced surgical equipment. Gamma Knife Unit is unique to South India which caters to patients of India and abroad. The program offers comprehensive training in all aspects of neurosurgical care. A state-of-the-art microneurosurgical lab with dedicated microscopes and endoscopes is available for a structured training in neurosurgical procedures.

Contemporary neurosurgical procedures for cerebrovascular diseases, endoscopic surgery, skull base surgery, epilepsy and surgery for movement disorders are performed on a regular basis.

Academic faculty and their research interests

Dr. Malla Bhaskara Rao, Professor and Head:
Epilepsy Surgery.

Dr. S. Sampath, Professor:
Endoscopic Vascular Surgery; Extended Endoscopic Skull Base Surgery; Endoscopic Transcranial Surgery; Skull Base Surgery; Cerebrovascular Surgery; Gamma Knife Radiosurgery and Spinal Instrumentation.

Dr. B. Indira Devi, Professor:

Peripheral Nerve Surgery; Skull Base Surgery; Craniovertebral Junction Surgery; Neurotrauma and Rehabilitation.

Dr. Dhananjay I Bhat, Professor:

Cerebrovascular Surgery; Endoscopic Neurosurgery; Skull Base Neurosurgery; Peripheral Nerve Surgery; CVJ and Complex Spine Surgery; GKRS.

Dr. Dwarakanath Srinivas, Professor:

Cerebrovascular Surgery; Skull Base Surgery; Movement Disorder Surgery; Paediatric Neurosurgery; GKRS.

Dr. Dhaval Shukla, Professor:

Endoscopic Neurosurgery; Cerebrovascular Surgery; Skull Base Surgery; Peripheral Nerve Surgery; Paediatric Neurosurgery; Neurotrauma and Neurocritical Care.

Dr. A. Arivazhagan, Additional Professor:

Neuro-endoscopy; Skull Base Surgery; Neuro-oncology; Functional Neurosurgery.

Dr. Nupur Pruthi, Additional Professor:

Cerebrovascular Surgery; Craniovertebral Junction and Spine

Dr. Kannepalli Venkata Laxmi Narasinga Rao, Additional Professor:

Cerebrovascular Surgery; Complex Spine Surgery; Neuro-Endoscopy

Dr. V. Vikas, Associate Professor:

Neurosurgical Robotics; Neuro-oncology; Skull Base; Cerebrovascular Surgery; Artificial Intelligence, Medical Device Design.

Dr. A. R. Prabhu Raj, Assistant Professor:

Neuro-oncology, Complex Spine Surgery, GKRS, Head Injury

Dr. Amey Rajan Savardekar, Assistant Professor

Dr. Nishanth Sadashiva, Assistant Professor:

Neuro-oncology; Complex Spine Surgery

Dr. Manish Beniwal, Assistant Professor:

Neuro-oncology; Neuro-endoscopy; Head Injury

Dr. Subhas Kanti Konar, Assistant Professor:

Department of Neurovirology

The department of Neurovirology was started in 1986. It has completed 30 years of existence in the Institute. The main objectives of the department are:

- a. To provide diagnostic services for viral infection of CNS and other viruses
- b. Research and Training in the field of Neurovirology
- c. Man power development

During year, the department continued its service, teaching and research activities. The NABL accreditation for all the viral diagnostic assays was renewed for a further period of two years. In the area of research the department currently has two prestigious international grants: (i) An Indo-USA Vaccine action program grant on “Immune signatures in Dengue virus infection” in collaboration with Yale University, USA (US\$ 2,50,000) and (ii) Centre for Disease Control (CDC), USA, funded project on “Strengthening surveillance for Japanese encephalitis in India” (US\$ 1.25 million for five years). The department continued to maintain its good publication record in national and international peer reviewed journals. During the year two doctoral students completed their work and were awarded PhD degrees and two new students enrolled for Ph.D

Courses

1. Ph.D in Neurovirology: External Fellowship Only.

Duration: 3 – 5 Years

Minimum Qualification for Admission:

MBBS / MD in Microbiology / M.Sc in Medical Microbiology / Microbiology / Biotechnology / Virology

Program of study: Initially, the candidate will be provisionally registered for Ph.D Before confirmation of registration all the candidates have to complete Pre -Ph.D examination after one year from the date of provisional registration. The candidate would be trained in both theoretical and practical aspects of the curriculum of Pre-Ph.D examination. After satisfactory completion of proposed work and approval of synopsis, the candidate shall submit thesis for Ph.D degree.

2. **Post-Doctoral Fellowship in Neuroinfections : 02 Seats (01 seat for sponsored)**
For course details, please refer to Department of Neuromicrobiology (Page52)

Academic faculty and their research interests

Dr. Anita S. Desai, Professor and Head:

Laboratory Diagnosis of Viral Infections of the Nervous System; Molecular Virology of Neurotropic Viruses to understand Pathogenesis.

Dr. V. Ravi, Professor:

HIV Diagnosis; Development of Kits; Antiretroviral Therapy; Japanese encephalitis.

Dr. Reeta Subramaniam Mani, Associate Professor:

Molecular Diagnosis of Viral Infections; Acute Encephalitis Syndrome; Rabies.

Department of Nursing

The Department of Nursing extends comprehensive, holistic and evidence based nursing service round the clock to patients with neurological, neurosurgical and psychiatric disorders in the inpatient wards, outpatient department, rural and urban mental health Centres and in rehabilitation day care Centres. The Department of Nursing caters to the needs of the family members of both in-patients as well as out-patients including those in the community.

The Department of Nursing empowers nurses from India as well as other countries with competencies to provide standard nursing care in the neurological and psychiatric nursing super-specialties'. Nursing students are trained to apply theory in the clinical scenario using critical thinking, problem solving and decision making abilities. Nursing students as well as nursing personnel are encouraged to conduct quality research and disseminate the findings either through indexed journals or conference presentations. The Department efficiently co-ordinates various educational programs namely Post Basic Diploma in Psychiatric/ Mental Health Nursing, Post Basic Diploma in Neuroscience Nursing, M.Sc in Psychiatric Nursing & Ph.D in Psychiatric Nursing.

The Department of Nursing provides consultative services for organizing neuro, psychiatric nursing care services and educational program in various parts of the country as well as within NIMHANS through the multi-disciplinary team approach.

Courses

1. **Ph.D in Nursing: External Fellowship only.**

Duration: 3 – 5 Years

Minimum Qualification for Admission:

Master's Degree in Psychiatric Nursing

Program of study: During the first year, the candidate will be given training in the theoretical and practical aspects of the problem and the research methodology related to the proposed topic. All the candidates have to appear for Pre-Ph.D Examination after one year from the date of provisional registration. The candidate will have two years of supervised clinical work in nursing with special emphasis on areas of related to the topic of research. After the completion of the proposed research work, the candidate will submit the thesis for award of Ph.D.

Research facilities: The Department of Nursing has a well-developed infrastructure to support teaching and research activities. There is good clinical facility and adequate reference books in the library for the students. The faculty members guide the research activities of the students in the areas of Neuro critical, infection control, effectiveness of structured teaching program, self-care ability development among neurologically dependent and psychiatrically ill patients. Counseling psychiatric patients and their families, follow up work on domiciliary care services in OPD and community.

There are excellent clinical facilities in the areas of psychiatric nursing, neuro sciences nursing, community mental health – neuro nursing both in rural and urban and neuro-psychiatric rehabilitation nursing. The department has close collaboration with all other departments of the Institute for further support in the research activities and it is a part of multi-disciplinary team.

2. M.Sc in Psychiatric Nursing: 09 Seats

Duration: 2 Years

Minimum Qualification for Admission:

- a) The candidate should be a Registered Nurse and Registered Midwife or equivalent with any State Nursing Registration Council.
- b) The minimum education requirements shall be the passing of B.Sc Nursing/B.Sc Hons. Nursing/Post Basic B.Sc Nursing with minimum of 55% aggregate marks.
- c) The candidate should have studied B.Sc Nursing/B.Sc Hons. Nursing/Post Basic B.Sc Nursing in an institution which is recognized by INC.
- d) Minimum of one year experience after Basic B.Sc Nursing as on the day of counseling.
- e) Minimum of one year of work experience prior to or after post basic B.Sc Nursing as on the day of counseling.
- f) Candidate shall be medically fit.

3. Post Basic Diploma in Psychiatric/Mental Health Nursing: 45 Seats

Duration: 1 Year

Minimum Qualification for Admission:

Should be registered with State Nursing Council and have one year experience as staff nurse.

4. Post Basic Diploma in Neurosciences Nursing: 09 Seats

Duration: 1 Year

Minimum Qualification for Admission:

Should be registered with the State Nursing Council and have one year experience as staff nurse.

Nurses applying for the above courses from other countries have to obtain an equivalence certificate from INC before applying.

5. B.Sc in Nursing: 77 Seats (Under the College of Nursing)

Duration: 4 Years

Minimum Qualification for Admission:

- a) Passed Pre-University examination conducted by Department of Pre-University Education with Physics, Chemistry, Biology and English with a minimum 45% aggregate in the above subjects.
- b) Passed Higher Secondary School Certificate Examination (12 years course) with Physics, Chemistry, Biology and English with a minimum 45% aggregate.
- c) Senior School Certificate examination Pre-Degree Examination (10+2) with Physics, Chemistry, Biology and English with a minimum 45% aggregate.
- d) An Equivalent with 12 years of Schooling from a recognized Board or University with Physics, Chemistry, Biology and English with a minimum 45% aggregate.
- e) The Candidate shall be medically fit.

Academic faculty and their research interests

Dr. Ramachandra, Professor and Head:

Electro-Convulsive Therapy; Substance Abuse Related Problems; Rehabilitation; HIV& Mental Health.

Dr. K. Lalitha, Professor:

Mental Health Counseling and Disaster Intervention; Developing Empathy Skills in Nursing Personnel; School Mental Health Programs; Stress Management.

Dr. Sai Laxmi Gandhi, Additional Professor:

Occupational Stress; Stress Management Programs; School Mental Health; Child & Adolescent Psychiatric Nursing and Psychiatric Rehabilitation.

Dr. Prasanthi Nattala, Associate Professor:

Developing and Testing Interventions for Individuals with Substance Use Disorders.

Dr. G. Radhakrishnan, Assistant Professor:

Relapse Prevention in Alcoholism; Geriatric Mental Health Nursing; Family Mental Health Interventions; School Mental Health Counseling and Forensic Psychiatric Nursing.

College of Nursing: Academic Faculty and their Research Interests

Dr. B. V. Kathyayani, Principal:

Geriatrics; Quality of Life; Women Health; Team Building; Dimensions of Quality Care; Alternative Health Care Practices (Yoga); Evidence Based Practice; Independent Nurse Practitioner.

Lecturers:

Dr. K. N. Jayanthi: Rehabilitation of Psychiatric Patients; Legal and Ethical Issues in Nursing.

Mr. B. Jayakumar: Health Education.

Mrs. H. N. Poornima: Lifestyle of Adolescents; Guidance and Counselling.

Dr. Priya Baby: Stroke Nursing; Traumatic Brain Injuries; Nursing in Movement Disorder.

Mrs. D. Kanitha: Mentorship in Nursing, Incivility in Nursing.

Dr. S. Valliammal: Quality of Life of School Children and Adolescents; Psycho-Social Needs of Adolescents.

Dr. C. Rajeswari: Prisoners and Correctional Nursing.

Ms. S. Jeeva: Neonatology and Non-Communicable Diseases.

Clinical Instructors:

Mrs. T. S. Sunitha: Care of Elderly.

Mrs. P. Vijayalakshmi: Human Rights of Mentally Ill; Women's Mental Health.

Mrs. A. Shamala: Child Psychiatry, Electro Convulsive Therapy.

Mrs. N. Padmavathi: Behaviour Therapy for Children.

Mrs. P. Jayanthi: Hospital Budgeting; Non-pharmacological Management in Diabetes.

Mrs. G. Jothimani: Guidance and counselling for Wives of Alcoholics; Quality of Life of Substance Abuse Individuals.

Mrs. S. Jeyamari: Case studies.

Mrs. Pamela John: Telephonic Conversation in Nursing; Surgical Intensive Care Nursing.

Mrs. C. Y. Kesiya: Guidance & Counselling in Hospice and Palliative Care.

Ms. P. Vimal Devi: Health Education.

Mrs. R. Rajalakshmi: Rehabilitation of Patients.

Dr. D. Mythili: Innovations in Nursing Education; New Teaching Strategies in Nursing Education.

Mrs. S. Sivakami: Evaluation Techniques.

Mrs. N. Sathyavathy: Stress Management in Nurses; Effective Parenting Techniques.

Mrs. K. SuguvanaSelvi: Performance Appraisal.

Mrs. P. Annie John: Case Discussion.

Mr. K. Kannan: Geriatric Psychiatry; Quality of Life of Mentally Ill Persons Attending PRS.

Mr. N. Rajesh: Health Administration in Community.

Ms. T. Suseela: Role Play in Health Teaching.

Mrs. S. Vijayalakshmi: Pain Management during Labour; Postpartum Depression and Management.

Mrs. Bingi Rajeshwari: Stress Counselling.

Mrs. K. Deiva: Rehabilitation of Neuro Patient; AYUSH for Psychiatric Patients.

Department of Psychiatric Social Work

The department of Psychiatric Social Work has been established with a vision of promoting psychosocial well-being of individuals, families and communities. The department has translated its vision into reality by providing the best possible psychosocial services and offering advanced level of teaching and training through pre doctoral, doctoral and fellowship programs. It is creating evidence based research for building theory and practice. It has enriched the collaboration and cooperation with a network of Schools and departments of Social Work both in India and across the globe. It is working in close collaboration with the State/Central Government departments, Non-Governmental and Governmental Organisations. The members of the department through the nodal centres for psychosocial support for disaster survivors play a pivotal role in provision of service, training and research in the newer areas of psychosocial disaster risk reduction and preparedness in the state of Karnataka. The department has been recognized for its innovative activity of capacity building the grass root, mid and senior level personnel of the Women and Child Department of the Government in actualizing the Integrated Child Protection Scheme. The members of the department are significantly contributing to other Central, State and Deemed University, Department of Social Work in their Boards of Study, Exam, Appointment and Selection. The Department is an Institutional Member of the International Association of Schools of Social Work and the Asia Pacific Association of Social Work Education.

Courses

1. **Ph.D in Psychiatric Social Work : 01 Seat under Institute Fellowship.**
Candidates with External Fellowship are also considered

Duration: 3 – 5 Years

Minimum Qualification for Admission:

2 years Master's Degree in Social Work/ M.Phil in Psychiatric Social work

Program of Study: The candidate would be trained in research methodology, theoretical and practical aspects. All the candidates have to complete Pre-Ph.D examination after one year from the date of provisional registration.

2. **M.Phil in Psychiatric Social Work: 21 Seats (including 03 Seats for foreign/sponsored candidates)**

Duration: 2 Years

Minimum Qualification for Admission:

2 years MA/MSW degree in Social Work.

Program of Study: In the two-year program, the candidates are exposed to application of methods, techniques and skills of social work for promotion of mental health, prevention of mental disorders, therapeutic interventions at individual, group and family level as well as after care and rehabilitation in institutional, semi institutional and non-institutional settings. At the end of the second year, they have to submit a dissertation using explorative-descriptive, experimental-evaluative research studies related to Psychiatric Social Work.

Research facility: The department's active collaboration with voluntary agencies, governmental agencies, schools of social work and Universities facilitates the process of undertaking interdisciplinary research in priority areas of mental health in general and Psychiatric Social Work in particular.

3. Fellowship in Psychosocial Support in Disaster Management: 08 Seats (04 Seats for sponsored)

Duration: 1 year

Minimum Qualification for Admission:

M.Phil in Psychiatric Social Work / Clinical Psychology / Psychosocial Rehabilitation / Disaster Management or M.Sc in Psychiatric Nursing with one year experience after completion of M.Sc course.

Academic faculty and their research interests

Dr. D. Muralidhar, Professor and Head:

Substance Abuse; Chronic Mentally Ill; Psychosocial Interventions for Mental Disorders; Sexual Minorities.

Dr. K. Sekar, Professor:

Community Mental Health; Disaster Psychosocial Support; Mental Health Services.

Dr. A. Thirumoorthy, Professor:

Suicide Prevention; Stress Management; Geriatric and Palliative Care.

Dr. N. Krishna Reddy, Additional Professor:

Psychiatric Social Work Interventions in Neurosurgery and Fieldwork Training.

Dr. R. Dhanasekara Pandian, Additional Professor:

De-addiction Community Care; Counselling; Allied Training Program.

Dr. Mohammed Ameer Hamza, Additional Professor:

Rehabilitation of Persons with Psychosis; Caregiver Intervention; Adolescent Health.

Dr. B. P. Nirmala, Additional Professor:

Psychiatric and Neurological Rehabilitation and Field Work Training in Social Work.

Dr. N. Janardhana, Additional Professor:

Community Based Rehabilitation; Child and Adolescent Mental Health; Preventive and Promotive Mental Health Activities.

Dr. M. N. Vranda, Associate Professor:

Psychosocial Interventions and Women with Intimate Partner Violence.

Dr. E. Arvind Raj, Associate Professor:

Community Mental Health, Disability and Functionality.

Dr. Gobinda Majhi, Assistant Professor:

Psychiatric Social Work Interventions with Caregivers of Adult Psychiatric Population; Rehabilitation.

Dr. Kavitha Jangam, Assistant Professor:

Child Abuse and Neglect; Women Mental Health.

Dr. Priya Treesa Thomas, Assistant Professor:

Psychosocial Interventions in Neurological Disorders; Children with Disability.

Dr. Aarti Jagannathan, Assistant Professor:

Psychiatric Rehabilitation (for Patients and Caregivers); Yoga for Mental Health.

Dr. E. Sinu, Assistant Professor:

Children and Women with Substance Use ;Street Children ;Social Work Research and Training.

Dr. C. Jayakumar, Assistant Professor:

Disaster Mental Health; Stress Management and Wellbeing; Policy and Legislation.

Dr. Bino Thomas, Assistant Professor:

Adolescent Mental Health; Martial Family Interventions; Parenting Skills Development.

Dr. Sojan Antony, Assistant Professor:

Psychosocial Care for Elderly; Youth Mental Health Interventions; Capacity Building Social Work.

Dr. T. R. Kanmani, Assistant Professor:

Psychosocial Interventions to Caregivers of Traumatic Brain Injury; Psychiatric Social Work Interventions and Rehabilitation for Patients with Spinal Cord Injury; Therapeutic Interventions and Palliative Care for Patients and Care Givers of Neuro Oncology.

Dr. Anish V. Cherian, Assistant Professor:

Common Mental Disorders; Psychosocial Intervention by Lay Health Work; e-Mental Health.

Department of Psychiatry

The Department of Psychiatry, NIMHANS is one of the largest in South East Asia with 37 faculty members, 25 senior residents, 3 DM Residents, 11 Post-doctoral Fellows and 81 Post Graduate trainees.

I. Clinical

Clinical services in the department are extended through Outpatient Clinics, Inpatient Services and Emergency Psychiatry Services. The general outpatient services, both evaluation and follow-up, are run 6 days a week.

Special clinics run by the department are as follows:

- a. De-Addiction Clinic
- b. Tobacco Cessation Clinic
- c. OCD Clinic
- d. Metabolic Clinic in Psychiatry
- e. Schizophrenia Clinic
- f. Psychiatric Rehabilitation
- g. Perinatal Psychiatry Clinic
- h. Geriatric Psychiatry Clinic

The department has a large inpatient set-up with 550 beds, De-addiction Services, Family Psychiatric Centre and Psychiatric Rehabilitation Day Care Centre. Psychiatric Rehabilitation Services are provided in OPD, Day care and inpatient settings. The department also runs Community Mental Health Services.

II. Training

a. Teaching and Training for MD Psychiatry and PDF Students

The department has a vibrant teaching program for MD students. The program runs two parallel streams of training one for first year and the other for second/third years.

Debates, workshops, invited talks and courses on leaderships and professionalism add to the variety. Newer training methods related to medical teaching like Objective Structure Clinical Examination (OSCE) and Problem based learning are also conducted on a regular basis.

b. For External Training

The Department is active in the training of mental health professionals from other disciplines in the Institute and from other parts of India and the SAARC region. Training activities of the department include:

1. Training of PHC doctors under the National Mental Health Program.
2. Certificate courses in Family Psychiatry and Substance Abuse.
3. Regular training in addiction medicine for both medical and non-medical health professionals
4. Periodic training workshops on diverse topics life Communication Skills, Grief & Bereavement, Clinical Audits, Psycho oncology, Chronic Pain, Perinatal Psychiatry, Palliative Care, ECT and other brain stimulation techniques, Yoga and Forensic Psychiatry.
5. Caregivers' education and support program workshops.
6. Use of Virtual Knowledge Network (VKN) to provide onsite and distance learning.

III. Research

The faculty in the department are involved in a large number of research activities which include- research in pedagogy, brain stimulation, genetics, neurobiology of major psychiatric disorders, cultural aspects of mental illness, social determinants of mental health, psychiatric epidemiology, dementia and old age psychiatry, addiction (socio cultural, neurobiology and treatment methods, suicide prevention, electrophysiological methods in brain disorder, consultation liaison psychiatry (Diabetes, Cancer, Chest Diseases, HIV, Maternal & Infant mental health, Psychiatric Rehabilitation, Somatization and associated disorders), Women's Mental Health (gender specific disorders, domestic violence), forensic psychiatry and several other areas.

Courses

1. **Ph.D in History of Psychiatry : External Fellowship Only**

Duration: 3 – 5 Years

Minimum Qualification for Admission:

MBBS or Post graduation in Social Sciences/Humanities (History/Psychology/Sociology/ Social Work/ Cultural Studies)

2. **Ph.D in Mental Health Rehabilitation : 02 Seats under Institute Fellowship.**
Candidates with External Fellowship are also considered

Duration: 3 – 5 years

Minimum Qualification for Admission:

M.Sc in Psychosocial Rehabilitation / M.Phil in Clinical Psychology / M.Phil in Psychiatric Social Work / M.Sc in Psychiatric Nursing / MBBS

Program of study:

A candidate who has obtained M.Sc in Psychosocial Rehabilitation, M.Phil in Clinical Psychology, M.Phil in Psychiatric Social Work, M.Sc in Psychiatric Nursing and MBBS from any recognized University or any other University recognized as equivalent thereto by NIMHANS securing not less than 55% marks can register for Ph.D examination after one year from the date of provisional registration. The candidate would be trained in research methodology, theoretical and practical aspects of the curriculum on Ph.D for duration of 3 years. The candidate has to complete Pre-Ph.D examination after one year from the date of provisional registration.

Research facility: Day care centre for people with chronic mental illness, clinical facilities for psychiatric rehabilitation, multidisciplinary team for rehabilitation, Services for Enhanced Recovery with Intensive and Continued Engagement, OPD, Inpatient referrals, Inpatient rehabilitation, home based rehabilitation, community based rehabilitation, social skills training, vocational training, community based day care centres and rehabilitation facilities by NGO's where NIMHANS provides technical support.

3. Ph.D in Psychiatry: External Fellowship only.

Duration: 3 – 5 Years

Minimum Qualification for Admission:

MBBS / MD / Postgraduate degree in the Basic Sciences or Humanities / BE / B.Tech. / ME / M.Tech.

4. DM in Addiction Psychiatry: 02 Seats

Duration: 3 years

Minimum Qualification for Admission:

MD/DNB in Psychiatry

5. DM in Geriatric Psychiatry: 02 Seats

Duration: 3 Years

Minimum Qualification for Admission:

MD Psychiatry/DNB in Psychiatry from a University/ institute / college recognized by the Medical Council of India

6. MD in Psychiatry:

Total : 37 Seats – Break-up indicated below:

- i) 21 seats All India selection
- ii) 08 seats for Karnataka Domicile
- iii) 06 seats for Candidates from Arunachal Pradesh, Chhattisgarh, Jammu and Kashmir, Manipur Meghalaya, Mizoram, Nagaland, Sikkim, Tripura & Uttarakhand domicile only*
- iv) 02 seats for sponsored candidates of which one seat is for domicile of Karnataka, however, if sponsored candidates are not available, the seats will go to the general pool

*Decided solely on overall Merit and not necessarily State-wise

Duration : 3 Years for Post MBBS Candidates
2 Years for Post DPM Candidates

Minimum Qualification for Admission:

- 1) MBBS or
- 2) DPM

7. PDF in Acute Care & Emergency Psychiatry: 02 Seats (01 seat for sponsored)

Duration: 1 Year

Minimum Qualification for Admission:

MD/DNB in Psychiatry

8. PDF in Community Mental Health: 03 Seats (02 seats for sponsored)

Duration: 1 Year

Minimum Qualification for Admission:

MD/DNB in Psychiatry

9. PDF in Addiction Medicine: 04 Seats (02 seats for sponsored)

Duration: 1 Year

Minimum Qualification for Admission:

MD/DNB in Psychiatry

10. PDF in Consultation Liaison Psychiatry: 02 Seats (01 seat for sponsored)

Duration: 1 Year

Minimum Qualification for Admission:

MD/DNB in Psychiatry

11. PDF in Geriatric Psychiatry: 02 Seats (1 seat for sponsored)

Duration: 1 Year

Minimum Qualification for Admission:

MD/DNB in Psychiatry

12. PDF in Obsessive Compulsive Disorder & Related Disorders: 03 Seats (02 seats for sponsored)

Duration: 1 Year

Minimum Qualification for Admission:

MD/DNB in Psychiatry

13. PDF in Clinical Neuro Sciences & Therapeutics in Schizophrenia: 03 Seats (02 Seats for sponsored)

Duration: 1 Year

Minimum Qualification for Admission:

MD/DNB in Psychiatry

14. PDF in Women's Mental Health: 02 Seats (01 seat for sponsored)

Duration: 1 Year

Minimum Qualification for Admission:

MD/DNB in Psychiatry

15. PDF in Non-Invasive Brain Stimulation of Psychiatric Disorders: 02 Seats (01 seat for sponsored)

Duration: 1 year

Minimum Qualification for Admission:

MD/DNB in Psychiatry

16. PDF in Forensic Psychiatry: 02 Seats (01 seat for sponsored)

Duration: 1 Year

Minimum Qualification for Admission:

MD/DNB in Psychiatry

**17. Fellowship in Psychiatric Rehabilitation* - 02 Seats (Under Medical) (01 seat for sponsored)
- 02 Seats (Under Non-Medical) (01 seat for sponsored)**

Duration: 1 Year

Minimum Qualification for Admission:

Candidates who possess the following degrees / diplomas:

- a) Diploma in Psychiatry / Psychological Medicine or MD (Psychiatry) or DNB (Psychiatry)
- b) M.Phil in Clinical Psychology / Psychiatric Social Work,
- c) M.Sc in Psychosocial Rehabilitation.

Direct candidates as well as those deputed from other organizations can be admitted to the course. Those with MBBS and those with MA in Psychology / MSW/ M.Sc Nursing who have had minimum of 2 years of experience of having worked in a mental health setting are eligible. (If M.Phil or Diploma is for only 1 year duration, then 1 additional year of experience in mental health setting is necessary).

*Candidates sponsored by the NGO's also can apply for this course. The sponsorship letter should be in the NIMHANS prescribed format as shown under sponsorship certificate. If no candidates are qualified under medical category, the seats will be filled by candidates from the non-medical category and vice-versa.

18. Fellowship in Geriatric Mental Health Care: 02 Seats (01 seat for sponsored)*

Duration: 1 Year

Minimum Qualification for Admission:

MD /DNB in General Medicine or Geriatric Medicine/or MBBS with minimum of 2 years of experience of having worked in a general hospital as medical officer. Direct candidates are well as those deputed from other organizations are also eligible.

***Candidates sponsored by the NGO's can also apply for this course. The sponsorship letter should be in NIMHANS prescribed format as shown under sponsorship certificate.**

Special Facility

Yoga Centre

The Advanced Centre for Yoga at NIMHANS is a facility that offers Yoga therapy to patients with psychiatric and neurological disorders. This was set up in collaboration with the Morarji Desai National Institute of Yoga, New Delhi and the Dept. of AYUSH, Govt. of India. The faculty associated with the Centre have also established a technical collaboration with Swami Vivekananda Yoga Anusandhana Samsthana, Bangalore. Each day, close to 40 patients receive yoga services under the aegis of the Centre.

Along with patient services, multidisciplinary research on Yoga has been initiated, involving several departments of NIMHANS. The Centre provides opportunities to pursue not only independent research but also course-related research as part of MD, DM, M.Sc and Ph.D courses. Areas of research include clinical studies of yoga in different disorders with neurobiological correlates the neurobiological mechanisms of yoga therapy in psychiatric and neurological disorders and the neurobiology of consciousness as related to yoga.

Academic faculty and their research interests

Dr. B. N. Gangadhar, Professor and Director:

Schizophrenia; Electro Convulsive Therapy; Yoga & Complementary Medicine; Community Mental Health.

Dr. Prabha S. Chandra, Professor and Head:

Women's Mental Health; Perinatal Psychiatry; Psychiatric Training; Bio-ethics; Mental Health Promotions; Palliative Care; HIV Psychiatry and Psycho-oncology.

Dr. S K. Chaturvedi, Professor:

Psycho-oncology; Chronic Pain, Psychosomatics; Quality of Life & Consultation – Liaison Psychiatry; Bio-ethics; Psychiatric Training.

Dr. Sanjeev Jain, Professor:

Genetics of Psychiatric Disorders; History of Psychiatry; Phenomenology; Biological Psychiatry.

Dr. Mathew Varghese, Professor:

Family Psychiatry; Geriatric Psychiatry and Community Psychiatry.

Dr. Pratima Murthy, Professor:

Substance Abuse; History of Psychiatry; Psychiatric Training; Neuropsychiatry.

Dr. Y. C. Janardhan Reddy, Professor:

Obsessive Compulsive Disorders; Anxiety Disorders and Bipolar Disorder.

Dr. Vivek Benegal, Professor:

Substance Abuse Related Disorders; Neurobiology and Genetics of Addiction.

Dr. Jagadisha Thirthalli, Professor and Head of Psychiatric Rehabilitation Services:

Schizophrenia; Somatic therapies (ECT, rTMS, Yoga); Community Psychiatry; Urban Mental Health.

Dr. John P. John, Professor:

Phenomenology; Nosology and Neurobiology EEG; Structural and Functional MRI; Neuropathology; Neuropsychology; Molecular Genetics of Schizophrenia.

Dr. Suresh B M, Professor:

Obsessive Compulsive Disorder; Genetics; Forensic Psychiatry & Community Psychiatry.

Dr. G. Venkatasubramanian, Professor:

Evolutionary Psychiatry; Psychoneuroendocrinology; Psychoneuroimmunology; Metabolic Disorders in Psychiatry; Neuroimaging (MRI, fMRI, DTI & MRS) and Genetics in Psychiatry; Schizophrenia; Biology of Obsessive Compulsive Disorder; Human Evolutionary Genetics; Evolutionary Biology.

Dr. P. T. Sivakumar, Professor:

Geriatric Psychiatry.

Dr. Geetha Desai, Additional Professor:

Women's Mental Health; Chronic Pain; Somatoform Disorders; Perinatal Psychiatry and Psychotherapy.

Dr. Shivarama Varambally, Additional Professor:

Early Onset Psychosis and Schizophrenia; Neurological Signs in Schizophrenia; Yoga in Psychiatry; Electro Convulsive Therapy.

Dr. Prabhat Kumar Chand, Additional Professor:

Substance/Drug Abuse related Disorder; Bipolar Disorder; Dual Diagnosis and Virtual Training Methods.

Dr. K Muralidharan, Additional Professor:

Vulnerability to Alcoholism and Substance Use Disorders; Treatment of Substance Use Disorders; Transcranial Magnetic Stimulation; Electro-Convulsive therapy.

Dr. T. Harish, Additional Professor:

Maternal Infant Bonding; Neurobiology of Postpartum Psychiatric Disorders; Acute Psychosis; Acute Psychosis; Consultation-Liaison Psychiatry; Bioethics.

Dr. Santhosh Loganathan, Additional Professor:

Stigma and Mental Illness; Geriatric Psychiatry; Family Therapy; Mental Health Literacy and Advocacy.

Dr. V. Senthil Kumar Reddi, Additional Professor:

Emergency Psychiatry; Consultation Liaison Psychiatry and Suicide Prevention.

Dr. C. Naveen Kumar, Additional Professor:

Severe Mental Disorders in Rural Communities; Electro Convulsive Therapy and other Brain Stimulation Techniques; Forensic Psychiatry; Psychiatric Rehabilitation.

Dr. A. Shyam Sundar, Associate Professor:

Obsessive Compulsive Disorders; Anxiety Disorders; Trans Cranial Magnetic Stimulation.

Dr. Preeti Sinha, Associate Professor:

Psychopharmacology; Geriatric Psychiatry and Brain Stimulation.

Dr. P. Naren, Associate Professor:

Schizophrenia; Obsessive Compulsive Disorder; Magnetic Resonance Imaging and Positron Emission, Tomography (PET).

Dr. T. S. Jaisoorya, Associate Professor:

Obsessive Compulsive Disorder and Public Health.

Dr. M. Krishna Prasad, Associate Professor:

Psychiatric Rehabilitation; Geriatric Psychiatry and Emergency Psychiatry.

Dr. T. Sivakumar, Associate Professor:

Psychiatric Rehabilitation; Psychiatric Disability; Caregivers Education and Support Programs; Teaching/ Training in Psychiatric Rehabilitation; Daycare in Psychiatry; Community Based Rehabilitation.

Dr. K. Arun, Associate Professor:

Adolescents and Addiction; Dual Diagnosis, Teaching and Training.

Dr. Sydney Moirangthem, Associate Professor:

Community Psychiatry.

Dr. N. Manjunatha, Assistant Professor:

Academic Psychiatry; Anxiety Disorders; Public Mental Health.

Dr. C. N. Janardhanan, Assistant Professor:

Obsessive Compulsive Disorder; Biomarkers of Treatment Response; Neuroimaging in Psychiatric Disorders (functional MRI); Transcranial Direct Current Stimulation; Cognitive Behavior Therapy.

Dr. Biju Viswanath, Assistant Professor:
Cell Models in Psychiatry and Bioplar Disorder.

Dr. Urvakhsh Meherwan Mehta, Assistant Professor of Psychiatry & welcome Trust DBT India alliance
Early Career Fellow:
Social Cognitive Neuroscience; Brain Stimulation and Neurobiology of Schizophrenia

Dr. Sundarnag Ganjekar, Assistant Professor:
Perinatal Psychiatry; Consultation Liaison Psychiatry.

Dr. Angothu Hareesh, Assistant Professor:
Forensic Psychiatry; Social Psychiatry; Rehabilitation Psychiatry; Personality and Deviant Personality
Traits in Adolescents.

Dr. Dahale Ajit Bhalchandra, Assistant Professor:
Geriatric Psychiatry; Consultation Liaison Psychiatry.

Dr. Deepak Jayarajan, Assistant Professor:
Substance Use disorder; Rehabilitation, Adolescents Substance Use.

Dr. Vijay Kumar.K.G, Assistant Professor:

Department of Psychopharmacology

The Department of Psychopharmacology has conducted much research in basic science on topics such as the mechanism of action of electroconvulsive therapy (ECT), cognitive adverse effects of ECT and methods for the attenuation thereof, neurocognitive benefits of herbal medicines, clinical psychopharmacology and related subjects. At present, the department is increasing its focus on clinical (rather than animal) research in the fields of psychopharmacology, electroconvulsive therapy and transcranial direct current stimulation. Hundreds of studies have been completed and several are ongoing. The research interests of the department can be understood from a perusal of the publications from the department. These are listed at the NIMHANS website in the web pages of the department and the faculty of the department.

Courses

1. Ph.D in Psychopharmacology: External Fellowship Only

Duration: 3 – 5 Years

Minimum Qualification for Admission:

MD in Pharmacology / Physiology / Biochemistry / MBBS / BE Biotechnology / Bioinformatics / B.Tech/Biotechnology / Bioinformatics / ME Biotechnology / Bioinformatics / M.Sc in Pharmacology / Physiology / Biochemistry / Life Sciences / Biotechnology / Bioinformatics

Program of Study:

1. Anatomy and physiology of the central nervous system.
2. Neurotransmitters and molecular signaling in the central nervous system
3. Animal models in psychopharmacology
4. Clinical and experimental psychopharmacology
5. Brain stimulation, with especial reference to electroconvulsive therapy (ECT) and transcranial direct current stimulation (tDCS)

Fields of investigation:

1. Electroconvulsive therapy (clinical and animal investigations)
2. Transcranial direct current stimulation (clinical investigations)
3. Clinical and experimental psychopharmacology (with allopathic and herbal medicinal substances)
4. Learning and memory (clinical and animal investigations)

Research facilities:

1. Instrumentation for computerized ECT and tDCS
2. Animal models of depression, learning, memory and locomotor activity
3. Common laboratory facilities as available in the Institute

Academic faculty and their research interests

Dr. Chittaranjan Andrade, Professor and Head:

Electroconvulsive Therapy; Clinical Psychopharmacology; Transcranial Direct Current Stimulation; Herbal Medicines (clinical research favored over animal research).

Department of Speech Pathology & Audiology

The main activities of the department are in the domains of clinical service, training and research. The department has been contributing to manpower development programs in the country through its internship program for graduates in speech and hearing, and allied sciences. The department is most sought after for this program as evident from the large number of applications for internship training. The department's contribution to national and international programs is through membership in the advisory councils of several organizations as well as through multidisciplinary research projects.

Courses

1. **Ph.D in Speech Pathology & Audiology** : 01 seat under Institute Fellowship.
Candidates with External Fellowships are also considered

Duration: 3 – 5 Years

Minimum Qualification for Admission:

M.Sc in Speech Pathology & Audiology or M.Sc in Speech-Language Pathology or M.Sc in Audiology.

Program of Study: The Candidate admitted for the program will be thoroughly trained in clinical and theoretic aspects of the field of Speech-Language Pathology and Audiology. However, the emphasis of theoretical training will be on the topics related to the doctoral program. This is in addition to the training program that the candidate has to undergo which is stipulated by the Institute. The department has full-fledged laboratories for work in the areas of Speech-Language Pathology and Audiology. The strength of the department is in the number and variety of the clinical population it caters to.

Research Facilities: Full-fledged speech pathology and audiology laboratory; multidisciplinary interaction; excellent clinical material in the area of neuropsychiatric communication disorders.

Academic faculty and their research interests

Dr. M. Jayaram, Senior Professor and Head:

Neurogenic Communication Disorders, Stuttering, Voice Disorders, Speech Perception and Production, Instrumentation, Auditory Dyssynchrony.

Dr. N. Shivashankar, Professor:

Clinical Neuroaudiology, Central Auditory Processing Disorders, Adult and Childhood Speech-Language Disorders.

Dr. V. P. Vandana, Associate Professor:

Neurogenic Communication Disorders, Autism, Dysarthria, AAC, Neuroimaging Studies of Speech-Language.

Dr. B. K. Yamini, Associate Professor:

Neurogenic Communication Disorders, Neurogenic Dysphagia, Childhood Communication Disorders.

Department of Transfusion Medicine and Haematology

Department consists of two sections:

1. Transfusion Medicine Centre (TMC), situated in the Neurocentre, occupying part of the first and second floor, roughly measuring 7000 Sq ft.
2. Clinical Pathology and Haematology section (CPH), situated in the first floor of Silver Jubilee Emergency Block, roughly measuring 1500 Sq ft.

Both the sections provide 24X7 services, 365 days a year. TMC is involved in procurement of blood from blood donors at TMC and from outdoor camps, splitting the blood into different components like packed red cells, platelet concentrate and fresh frozen plasma etc., and subject all the donated blood for mandatory tests for HIV1&2, Hepatitis B, Hepatitis C, malaria and syphilis. NAT test for HIV_{1 & 2}, Hepatitis B and Hepatitis C is being tested in common facility at Bowring & Lady Curzon Hospital, Bengaluru, for Government Hospitals of Karnataka.

TMC is also involved in therapeutic procedures like plasma exchange and phlebotomy thereby helping the neurologist.

Transfusion Medicine Centre, recognized as a training centre for Karnataka, conducts induction and refresher training for Blood Storage Centres (BSC) and Blood Banks of Karnataka, mainly NACO assisted. TMC is involved in research in immunohematology and transfusion medicine.

CPH section processes the blood samples for (1) Complete Blood Count, Peripheral Smear, ESR, Sickling test, Reticulocyte Count, Saline Dilution test for Acanthocytes, (2) Bone Marrow Study, (3) Routine Urine Examination and (4) Routine Stool Examination. The tests done in CPH are accredited by NABL as per the guidelines of both ISO: 15189:2007 and 2012. The Clinical Pathologist is involved in teaching programs of BSc Nursing and BSc Anaesthesia and training of NACO assisted Blood Banks and Blood Storage Centres.

Department has initiated one year fellowship program: Post-doctoral fellow in Transfusion Medicine, since two years. Department has got all the facilities like blood component preparation, apheresis, automated immunohematology and ELISA equipment, for this program. And there is ample scope for research.

TMC has project funded by Government of Karnataka: NHM-NVBDCP Program to start Single Donor Platelet (apheresis) at NIMHANS. The aim of the program is to provide single donor platelet to patients admitted in any hospital in Karnataka, at an affordable cost of Rs. 8,000, 24 hours a day.

Courses

1. PDF in Transfusion Medicine: 02 Seats (01 seat for sponsored candidate)

Duration: 1 Year

Minimum Qualification for Admission:

MD / DNB in Pathology / Medicine / Paediatrics / Microbiology / Anaesthesia / Emergency Medicine or any other clinical equivalent degree recognized from a recognized institution in India

Program of Study: The candidate will work full time in the Transfusion Medicine Centre (TMC), actively participating in counseling, screening and bleeding of voluntary blood donors, therapeutic procedures that include phlebotomy and therapeutic plasma exchange, blood component separation, screening for transfusion transmitted infections and other blood safety activities and other responsibilities similar to Senior Resident including participation in teaching and training activities of the centre. The course content will be such as to cover training in all related disciplines of transfusion medicine. A short posting will be done in other hospitals where specific facility relevant to transfusion medicine is available.

Clinical and Research Facilities: TMC and the blood component separation facility is licensed by DCI and is recognized by NACO as a training centre. The TMC is well equipped with state-of-the-art equipment necessary for therapeutic activities and blood safety.

A large number of blood donation camps are held to procure blood from voluntary blood donors. More than ten thousand units of blood per year are issued to various wards and other hospitals in and around Bangalore.

In addition, a large number of therapeutic plasma exchanges are carried out for various neurological conditions.

NACO has identified TMC as training centre for the state of Karnataka. TMC conducts several training programs for blood bank officers, technologists and nursing staff working in blood banks throughout the state of Karnataka. TMC also provides training for staff of Blood Storage Centres (BSCs) throughout the state; several private blood banks – stand alone, hospital and medical college based, utilize and benefit training from TMC.

Academic faculty and their research interests

Dr. Sundar Periyavan, Professor and Head:
Immuno-haematology and Therapeutic Aphaeresis.

Sponsorship / Deputation Criteria for all courses

Minimum qualifications for sponsored / deputed candidates are the same as indicated for all the courses.

Sponsored / deputed candidate means permanent employees sponsored by the State / Central Government or Public Sector undertakings of State / Central Government.

Sponsored / deputed candidates should also qualify in the entrance test.

The candidate should produce the sponsorship / deputation certificate in the prescribed format (Annexure 1)

Application can be forwarded by immediate superior officer. However, the sponsorship / deputation letter from the competent authority has to be furnished by the candidate at the time of counselling.

The candidature of applicants failing to produce sponsorship / deputation letter at the time of counselling will be treated as cancelled and not allowed for counselling.

10% relaxation in the qualifying marks of the Entrance Test will be given for all Sponsored/ deputed Candidates applying for PDF courses.

Sponsorship for Ph.D for Foreign Nationals is permitted only from Governmental Organizations, recognized Universities and National Scholarships of any reputed/recognized organization will be considered. No other source of funding will be considered.

Notwithstanding anything stated relating to Sponsorship/Deputation anywhere else in this document, the definition of Sponsorship/ Deputation given above shall stand.

External fellowship for Ph.D Program

Candidates with sponsorship / deputation from Government of India / State Govt. Institutions / Universities, candidates with Fellowships from Government Agencies like UGC, CSIR, ICMR, DBT (JRF / SRF only) and permanent employees / tenured employees of NIMHANS can apply for Ph.D in the various departments of this Institute, Candidates sponsored by NGO's also can apply for this course. However, such applications will be considered at the discretion of the competent authority at NIMHANS for permitting them to appear for Entrance Test and interview. Candidates who have cleared the UGC, CSIR, ICMR, DBT (JRF/ SRF only) qualifying exams are exempted from entrance test.

All the candidates have to attend an interview and qualify by obtaining a minimum of 50% marks to be eligible for admission to the Ph.D program. Mere qualifying in Entrance test and interview does not entitle admission to Ph.D course. Selection is subject to availability of eligible guides in the respective departments. The admitted students have to work on full-time basis for a minimum period of three years. Entrance test and interview for selection of candidates for Ph.D programs will be held in the months of March and June.

Eligibility - Medical Courses

- (a) MBBS degree from a recognized University or from any other University recognized as equivalent thereto by NIMHANS and by the Medical Council of India.
- (b) The candidate should have completed compulsory rotation internship of one year after MBBS or its equivalent as recognized by Medical Council of India on or before the date of commencement of course. A certificate to that effect has to be produced. The candidate should have permanent registration with State Medical Council. Candidates who do not submit the certificate of completion of internship on the day of admission to the course will not be admitted under any circumstance.
- (c) Candidates who have MD/MS/DNB/DPM from a recognized University or from any other University recognized as equivalent thereto by NIMHANS and by the Medical Council of India may apply for the course. However, Candidates who are awaiting the results may also appear for the entrance test subject to production of proof of having passed the examination on or before the date of admission to the course.

Eligibility - Non Medical Courses

- (a) Candidates with M.Sc / MA/ MSW/ BAMS / BE/ B.Tech/ B.Sc Engineering should have passed the examination from a University recognized by the University Grants Commission (UGC) or the Rehabilitation Council of India (RCI) with not less than 55% of marks in aggregate on or before the date of counseling/interview. Candidates who have appeared for the qualifying examination and are awaiting results, may also apply. However, such candidates will be eligible to appear for the counseling/interview only if they produce the proof of having passed the examination in writing.

In case, grades are awarded in lieu of marks in the qualifying examination, candidates have to produce a certificate from the University clearly stating the range of marks into which each of the grades fit, failing which, such applications will be rejected.

- (b) Candidates with Master's degree obtained through research and awarded on the basis of the evaluation of the thesis (from a University recognized by NIMHANS which does not award marks at the master's level) are also eligible to apply for Ph.D Program.
- (c) Candidates with PUC or 10 + 2 with Physics, Chemistry, Biology and English with 45% aggregate in the above subjects can apply for B.Sc in Nursing course.
- (d) Candidates with PUC or 10 + 2 with English, Physics, Chemistry, Mathematics and Biology or job oriented diploma courses from a recognized board with an aggregate of 45% can apply for B.Sc in Radiography course.
- (e) Candidates with PUC or 10 + 2 or equivalent with a Science group having secured an aggregate of 45% in Science subjects for B.Sc in Anesthesia Technology course.

A relaxation of 5% marks in aggregate will be given for candidates belonging to SC/ST category.

Foreign Nationals

All foreign nationals (holding passports of countries other than India), non-resident Indians and overseas citizens of India should apply under "Foreign National" category.

They shall appear for a common entrance test along with the other candidates. Admission will be subject to the candidate obtaining "No Objection Certificate for pursuing the course applied" from Government of India.

Students possessing foreign qualifications who intend to seek admission to academic courses at NIMHANS are required to produce an EQUIVALENCE CERTIFICATE from the Association of Indian Universities/ Medical Council of India to facilitate their admission to the course.

The guidelines to obtain an Equivalence Certificate from the Association of Indian Universities are as follows:

1. The candidate should submit degree/diploma certificate together with year-wise academic transcript / mark sheet duly authenticated by Indian Mission abroad / concerned foreign Mission in India.
2. Accreditation status of the degree awarding foreign University/authority.
3. A Bank draft of US \$ 50 or equivalent Indian currency in favor of the Secretary General, Association of Indian Universities, New Delhi as fee.

The Association of Indian Universities does not recognize any degree/diploma awarded by accredited foreign Universities for programs / courses conducted in India.

For the recognition of Medical degrees, Secretary, Medical Council of India, Pocket-14, Sector - 8, Dwarka Phase -I, New Delhi – 110 077 may be contacted.

Age limit

For PG Medical and Superspeciality Courses, age should not be more than 32 years for MBBS degree holders and 35 for PG medical degree holders. Age is relaxable by a maximum of 5 years in the case of SC/ST candidates and by a maximum of 3 years for OBC candidates as on the date of commencement of courses. Age should not be more than 45 years as on the date of commencement of courses in case of sponsored / deputed candidates.

For B.Sc in Nursing, B.Sc in Radiography and B.Sc in Anaesthesia Technology courses, age of the candidates should be between 17 and 25 years as on the date of commencement of course.

Employees of NIMHANS applying for Ph.D should have at least 10 years of service left before registering for Ph.D

Reservation of Seats

1. There is no reservation of seats for superspeciality courses of DM in Child and Adolescent Psychiatry, DM in Neuroanaesthesia, DM in Neurology, DM in Neuroimaging and Interventional Radiology, DM in Neuropathology, DM in Addiction Psychiatry and M.Ch in Neurosurgery.
2. Reservation Roster prescribed by the Government of India will be followed for each course as applicable.

If suitable candidates are not available under the reserved category, they will be filled up by General category candidates.

3. Number of seats and reservation may vary from time to time as per the directions of the Government of India through relevant notifications.
4. Nine seats in MD in Psychiatry (1 for sponsored) and three seats in M.Phil in Clinical Psychology are reserved for domiciles of Karnataka State. Six seats in MD in Psychiatry are reserved for domiciles of Arunachal Pradesh, Chhattisgarh, Jammu and Kashmir, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim, Tripura, & Uttarakhand

Domicile Certificate has to be produced from the respective state without fail, certified translation copy in English has to be produced if the Domicile Certificate is in the Language of the state by the issuing authority.

5. 3% of the PG seats are reserved for persons with above 40% and less than 70% disability (sensory & orthopedic) (except Nursing, DM in Neurology, DM in Neuroimaging and Interventional Radiology, DM in Neuropathology, DM in Addiction Psychiatry, DM in Geriatric Psychiatry, DM in Neuroanaesthesia, MD in Psychiatry and M.Ch in Neurosurgery and all PDF courses) subject to the statement below:

One seat will be reserved every second year on rotation system subject to the candidate qualifying in the Entrance Test in the following courses (Only for the orthopedically handicapped):

MD in Psychiatry, M.Phil in Clinical Psychology, M.Phil in Psychiatric Social Work

The eligibility for admission of a candidate under PWD category will be determined by the committee constituted for this purpose by the competent authority. Mere production of disability certificate does not ensure eligibility/admission to the course.

Note

1. To claim that candidates are residents/domiciles of Karnataka State, he/she should produce a certificate from the Tehsildar to the effect that he/she or his/her father/mother has been a resident of Karnataka State for a period of 10 years or has owned or possessed land or property or house in Karnataka State. Candidates submitting Domicile Certificate in any other language than English need to provide a certified Translation of the Certificate at the time of the Counseling/Interview.
2. There will be a common entrance test for candidates appearing for undergraduate courses, i.e., B.Sc in Nursing, B.Sc in Anesthesia Technology and B.Sc in Radiography.
3. There will not be any entrance test for Post Basic Diploma in Psychiatric/Mental Health Nursing, Post Basic Diploma in Neuroscience Nursing and Diploma in Clinical Neurophysiology Technology.

Emoluments

Candidates admitted to Medical courses will be paid as per the Residency Scheme of the Government of India. They will be placed in the pay band of Rs.15,600 – Rs.39,100/-. The Junior Residents will be paid a Grade pay of Rs.5,400/- and the Senior Residents Rs.6,600/-

Junior Residents will be paid a basic pay of Rs. 15,600/- per month in the first year, Rs.16,230/- per month in the second year and Rs. 16,880/- in the third year (Rs.5,400/- as Grade pay) along with admissible allowances. Post MBBS candidates of DM in Neurology and M.Ch in Neurosurgery who are given senior residentship will be paid a basic pay of Rs.18,750/- in the 4th year and Rs.19,510/- in the fifth year (Rs.6,600/- as Grade pay) along with admissible allowances. The stipend is subject to Government orders from time to time.

Candidates admitted for Fellowship in Geriatric Mental Health Care and MD in Psychiatry will be paid the salary equivalent to first year Junior Resident.

Candidates with PG degree (MD/MS) admitted to the 3 years course in DM Neurology, and M.Ch in Neurosurgery will be considered for the post of Senior Resident, subject to availability of vacancies.

Candidates admitted to the PDF courses, DM in Neuroimaging and Interventional Radiology, DM in Neuroanaesthesia, DM in Child and Adolescent Psychiatry, DM in Neuropathology, DM in Geriatric Psychiatry and DM in Addiction Psychiatry will be considered as Senior Residents.

Post MD/MS senior residents will get a basic pay of Rs.18,750/- per month in the first year, Rs.19,510/- per month in the second year and Rs.20,300/- in the third year (Rs.6,600/- as Grade pay) along with admissible allowances. The stipend is subject to Government orders from time to time.

Candidates admitted for Fellowship in Psychiatric Rehabilitation will be paid the following stipend: a) Medical category: basic pay of Rs.15,600/- per month with admissible allowances equivalent to I year Junior Resident stipend. b) Non-Medical category: Rs.12,000/- per month (consolidated). Candidates admitted for Fellowship in Psychosocial Support in Disaster Management will be paid Rs. 12,000/- per month (consolidated).

Candidates admitted to the M.Phil and Fellowship in Mental Health Education Courses will be paid a stipend of Rs.25000/- per month during the course period.

Candidates admitted to Post Graduate Diploma in Clinical Biochemistry course will be paid consolidated stipend of Rs.15000/- per month

Candidates admitted to Ph.D courses under Institute fellowship will be paid stipend of Rs.25,000/- per month for first two years and Rs.28,000/- per month from the third year till fifth year or submission of thesis whichever is earlier. Contingency grant of Rs.20,000/- per year will be paid to Research scholars.

Candidates admitted to Ph.D in Clinical Neurosciences course (under the ICMR Fellowship) will be paid on par with post MBBS residents in Neurology and Neurosurgery. In addition, these research scholars are entitled for a contingency grant of Rs.15,000/- per year.

Candidates admitted to M.Sc in Psychiatric Nursing, M.Sc in Biostatistics and Certificate Course in Neuropathology Technology course will be paid Rs.3,000/- as stipend per month during the period of the course with the exception of the candidates who are on sponsorship/drawing pay and allowances from their employers.

Candidates admitted to Diploma in Psychiatric Nursing Course/Diploma in Neurological and Neurosurgical Nursing Course will be paid Rs.2,000/- per month. Candidates admitted to Diploma in Clinical Neurophysiology Technology Course will be paid Rs.2,000/- per month, during the period of the course with the exception of the candidates who are on sponsorship/drawing pay and allowances from their employers.

Students undergoing B.Sc in Nursing, B.Sc in Radiography and B.Sc in Anaesthesia Technology courses should undergo compulsory Internship of one year duration immediately on successful completion of course failing which Rs.5,00,000/- has to be paid as penalty (An agreement has to be furnished at the time of joining the course). A stipend of Rs.12,000/- per month will be paid during the internship.

Foreign Nationals and sponsored candidates from State Government/Government of India are not eligible for any stipendiary benefits. The fee structure for foreign nationals will be in US dollars and for sponsored Indian candidates will be in Indian Rupees.

Enclosures

Medical courses:

- Marks Sheet of all the years
- Degree Certificate
- Master's Degree Certificate (If applicable)
- Master's Degree Marks Sheet (If applicable)
- Attempt Certificate (Compulsory)
- Internship Completion Certificate
- Registration Certificates
- SSC Marks sheet
- Caste Certificate in case of SC/ST/OBC category (with certified translation copy in English if the Certificate is in the language of the state by the issuing authority)
- Domicile Certificate (if applicable) (with certified translation copy in English if the Certificate is in the language of the state by the issuing authority)

Non Medical courses:

- All the year/semester qualifying exam mark sheets
- Degree Certificate
- Caste Certificate in case of SC/ST/OBC category (with certified translation copy in English if the Certificate is in the language of the state by the issuing authority)
- Domicile Certificate (if applicable) (with certified translation copy in English if the Certificate is in the language of the state by the issuing authority)

Experience certificate (if applicable)

Applications without these enclosures will be rejected without intimation.

Five set of photocopies along with original certificates are to be deposited at the time of admission

Sponsorship / Deputation Certificate Format

This is to certify that:

1. Dr./Mr./Ms. _____ is a permanent employee with the _____ (Name of the Government Organization) and the date of joining service is _____.
2. The candidate is being sponsored / deputed for _____ course at NIMHANS, Bangalore.
3. The candidate is being sponsored / deputed for the entire duration of the course, if selected.
4. The candidate will be paid all emoluments by the State/Central Government or Public Sector Undertaking of State/Central Government and no expenses will devolve upon NIMHANS, Bangalore.
5. The candidate after getting training at NIMHANS, Bengaluru shall continue to be in regular service with the State/Central Government or Public Sector Undertaking of State/Central Government and will work in the State/Central Government or Public Sector Undertaking of the State/Central Government.

Date:

Place:

Signature with Seal of
Competent Authority

(Format of OBC Certificate) (Latest)

Form of Certificate to be produced by Other Backward Classes Applying for Admission to Central Education Institutes Under the Government of India.

This is to certify that Shri/Smt./Kum. _____ Son/Daughter of Shri/Smt. _____
_____ of Village/Town _____ District/Division
_____ in the _____ State belongs to the _____

Community which is recognized as a backward class under:

1. Resolution No. 12011/68/93-BCC(C) dated 10/09/93 published in the Gazette of India Extraordinary Part I Section I No. 186 dated 13/09/93.
2. Resolution No. 12011/9/94-BCC dated 19/10/94 published in the Gazette of India Extraordinary Part I Section I No. 163 dated 20/10/94.
3. Resolution No. 12011/7/95-BCC dated 24/05/95 published in the Gazette of India Extraordinary Part I Section I No. 88 dated 25/05/95.
4. Resolution No. 12011/96/94-BCC dated 9/03/96.
5. Resolution No. 12011/44/96-BCC dated 6/12/96 published in the Gazette of India Extraordinary Part I Section I No. 210 dated 11/12/96.
6. Resolution No. 12011/13/97-BCC dated 03/12/97.
7. Resolution No. 12011/99/94-BCC dated 11/12/97.
8. Resolution No. 12011/68/98-BCC dated 27/10/99.
9. Resolution No. 12011/88/98-BCC dated 6/12/99 published in the Gazette of India Extraordinary Part I Section I No. 270 dated 06/12/99.
10. Resolution No. 12011/36/99-BCC dated 04/04/2000 published in the Gazette of India Extraordinary Part I Section I No. 71 dated 04/04/2000.
11. Resolution No. 12011/44/99-BCC dated 21/09/2000 published in the Gazette of India Extraordinary Part I Section I No. 210 dated 21/09/2000.
12. Resolution No. 12015/9/2000-BCC dated 06/09/2001.
13. Resolution No. 12011/1/2001-BCC dated 19/06/2003.
14. Resolution No. 12011/4/2002-BCC dated 13/01/2004.
15. Resolution No. 12011/9/2004-BCC dated 16/01/2006 published in the Gazette of India Extraordinary Part I Section I No. 210 dated 16/01/2006.

NIMHANS

Shri/Smt./Kum. _____ and/or his family ordinarily reside(s) in the
_____ District/Division of _____ State.

This is also to certify that he/she does not belong to the persons/sections (Creamy Layer) mentioned in Column 3 of the Schedule to the Government of India, Department of Personnel & Training O.M. No. 36012/22/93-Estt.(SCT) dated 08/09/93 which is modified vide OM No. 36033/3/2004 Estt.(Res.) dated 09/03/2004.

Dated:

Seal

District Magistrate/
Deputy Commissioner, etc

NOTE:

- (a) The term 'Ordinarily' used here will have the same meaning as in Section 20 of the Representation of the People Act, 1950.
- (b) The authorities competent to issue Caste Certificates are indicated below:
 - (i) District Magistrate / Additional Magistrate / Collector / Deputy Commissioner / Additional Deputy Commissioner / Deputy Collector / Ist Class Stipendiary Magistrate / Sub-Divisional magistrate / Taluka Magistrate / Executive Magistrate / Extra Assistant Commissioner (not below the rank of Ist Class Stipendiary Magistrate).
 - (ii) Chief Presidency Magistrate / Additional Chief Presidency Magistrate / Presidency Magistrate.
 - (iii) Revenue Officer not below the rank of Tehsildar and
 - (iv) Sub-Divisional Officer of the area where the candidate and / or his family resides.

Fee Structure for Indian Nationals

(All figures are in rupees)

Sl. No	Nature of Fees	Ph.D	DM/M.Ch MPH	MD/PDF/	M.Phil/PG Diploma Fellowship courses
1.	Eligibility fee for all courses:	1) Universities of Karnataka Rs.100/- 2) Universities outside Karnataka Rs.500/- 3) Foreign students Rs. 5000/-			
2.	Registration fee*	1,000/-	1,000/-	1,000/-	1,000/-
3.	Tuition fee per year	18,000/-	50,000/-	50,000/-	10,000/-
4.	Laboratory fee per year [#]	500/-	500/-	500/-	400/-
5.	Gymkhana & recreation Fee per year [#]	250/-	250/-	250/-	250/-
6.	Library fee per year [#]	1,000/-	1,000/-	1,000/-	1,000/-
7.	Caution Money & Hostel Deposit**	5,000/-	5,000/-	5,000/-	5,000/-
8.	Identification card fee*	100/-	100/-	100/-	100/-
9.	Examination fee				
	Part I	---	4,000/-	4,000/-	1,750/-
	Part II	---	6,000/-	6,000/-	1,750/-
	Part III	---	12,000/-	---	---
10.	Pre-Ph.D exam fee	2,000/-	---	---	---
11.	Ph.D Thesis evaluation	10,000/-	--	---	---

* Payable at the time of joining.

The total fee under these sub heads, for the entire course will have to be paid at the time of admission itself.

** Refundable on completion of the course.

Fee once paid will not be refunded at any cost. In case, if a candidate leave the course after joining and if the seat is offered to the wait listed candidate and if the wait listed candidate join the course, then, the refund will be made subject to approval by the competent authority after deductions.

Fee for the corresponding years should be paid immediately on completion of the Academic year failing which fine will be levied as applicable.

Application fee of Rs.50/- has to be paid for all PG / UG/ Diploma exit examinations

Markscard fee of Rs.100/- will be charged to MPH/ MPhil/ M.Sc/ B.Sc/ Diploma students

No examination fee for Ph.D, PDF and Fellowship courses.

Fee Structure for Indian Nationals (Continued)

(All figures are in rupees)

Sl. No	Nature of Fees	M.Sc Nursing	B.Sc Nursing	B.Sc Anaesthesia Tech./ Radiography	CCNT/DCNT/ DPN/DNN
1.	Eligibility fee for all courses	1) Universities of Karnataka Rs.100/- 2) Universities outside Karnataka Rs.500/- 3) Foreign students Rs.5000/-			
2.	Registration fee*	1,000/-	1,000/-	1,000/-	---
3.	Tuition fee per year	10,000/-	35,000/- ^{##}	10,000/-	---
4.	Laboratory fee per year [#]	300/-	300/-	300/-	---
5.	Gymkhana & recreation Fee per year [#]	250/-	250/-	250/-	250/-
6.	Library fee per year [#]	1,000/-	1,000/-	1,000/-	1,000/-
7.	Caution Money & Hostel Deposit**	5,000/-	5,000/-	5,000/-	5,000/-
8.	Identification card fee*	100/-	100/-	100/-	100/-
9.	Examination fee	1,500/-	1,000/-	1,000/-	500/-
	Part I				
	Part II	1,500/-	1,000/-	1,000/-	---
	Part III	---	1,000/-	---	---
	Part IV	---	1,000/-	---	---

* Payable at the time of joining.

The total fee under these sub heads, for the entire course, will have to be paid at the time of admission itself.

** Refundable on completion of the course. ^{##}Rs.20,000/- for SC/ST candidates.

Fee once paid will not be refunded at any cost. In case, if a candidate leave the course after joining and if the seat is offered to the wait listed candidate and if the wait listed candidate join the course, then, the refund will be made subject to approval by the competent authorities after necessary deductions.

Fee for the corresponding years should be paid immediately on completion of the Academic year failing which fine will be levied as applicable.

SNA Rs.1,000/- one-time payment for B.Sc Nursing students. Hostel Rent (water & electricity charges) Rs.5,000/- per annum and Rs.1000/- mess advance for B.Sc students.

Fee Structure for Foreign Nationals

(All figures are in US Dollars)

Sl.No.	Name of the Course	* Tuition fee	Registration fee
1	Ph.D	30,000	500
2	For super speciality courses		
	a. DM/M.Ch (5 years duration)	60,000	1000
	b. DM/M.Ch (3 years duration)	50,000	1000
3	PDF in Neuropathology/Neuroanaesthesia	30,000	1000
4	M.Phil	20,000	500
5	M.Sc Psychiatric Nursing	15,000	500
6	B.Sc in Nursing	20,000	
7	DPN/DNN/DCNT		100

* Tuition fee to be paid in equal annual installments. The amount indicated is for the entire duration of the course

The fees once paid will not be refunded at any cost

The fee for SAARC Nationals applying for various courses at NIMHANS will be on par with Indian Nationals.

Method of Selection

Selection

- Selection will be based purely on merit based on the ONLINE entrance test. There will be counseling for students to ascertain their preference of subject, verification of documents and to implement statutory reservation provisions. General candidates securing less than 50% of marks and SC/ST candidates securing less than 45% of marks in the entrance test shall not be eligible to be called for counseling.
- If no eligible candidates are available against reserved seats, they shall be filled up from general merit category.
- Candidates who have cleared the UGC, CSIR, ICMR, DBT qualifying exams and secured JRF/SRF are exempted from the entrance test to Ph.D courses. All the candidates have to attend an interview and qualify in it by obtaining a minimum of 50% marks to be eligible for admission into the Ph.D Program. Merely qualifying in the entrance test and interview does not entitle admission to Ph.D course, selection is subject to availability of eligible guides in the respective departments.
- A merit list will be prepared course wise and reserved category wise based on the marks scored by the candidates in the ONLINE entrance test. Eligible candidates will be called for counseling (interview in case of Ph.D candidates) until all the seats are filled up in all the categories. Counseling will be stopped as soon as the last seat is filled. Waiting list will be based on the merit list so prepared. A separate merit list will be prepared for MD in Psychiatry & M.Phil in Clinical Psychology for the seats reserved for Karnataka domiciles.
- In the case of two or more candidates obtaining equal marks in the Entrance test, their interse merit will be determined as under:
 - a. No. of attempts in the qualifying exam.
 - b. If the number of attempts are same, candidates securing higher marks in the qualifying exam will be considered*.
 - c. If marks are also same, then, age will be the criterion i.e., person who is senior in age shall be ranked higher.
 - d. In the event of one of the candidates or all of the candidates have not been awarded marks in the qualifying exam relevant to the course, then, age will be the sole criterion i.e., person who is senior in age shall be ranked higher.

Eligible candidates in each category shall be called to appear before a duly constituted Selection Committee for the counselling.

- * **In case of non-medical courses, consolidated marks of all the years/semesters of the qualifying examination will be considered. In case of medical courses, marks of the qualifying examination Final year Part II of MBBS or final year MD/MS (if available) will be considered as the case may be.**
- Admission will be on the basis of merit as determined by the marks secured in ONLINE Entrance test. The list of selected candidates will be prepared separately for each course and displayed in the order of merit on the notice boards of the Institute and the NIMHANS website. In case of Ph.D candidates, the admission will be based on ONLINE Entrance test and Interview (only interview for candidates with UGC, CSIR, ICMR, DBT JRF/SRF) and subject to availability of Guides.

Online entrance examination

- The question paper for ONLINE Entrance test will contain multiple choice objective type questions. The duration of the test for each course will be 90 minutes and the number of questions to be answered is 100. There will be negative marking and 0.25 marks will be deducted for all wrong answers. No marks will be deducted for unanswered questions.
- **A single common online entrance test of 2 hours duration and 150 questions will be conducted for MD in Psychiatry, Ph.D in clinical Neurosciences, DM in Neurology and M.Ch in Neurosurgery courses for candidates with MBBS qualification.**
- Separate ONLINE Entrance Tests will be conducted for admission to DM in Neurology and M.Ch in Neurosurgery courses with PG qualification. **Candidates possessing PG qualification in Medicine (MD/DNB) and Surgery (MS/DNB) will be considered only under PG category for admission to Ph.D in Clinical Neurosciences, DM in Neurology and M.Ch in Neurosurgery courses, respectively. If any candidate applied under the MBBS category, then his/her candidature will be disqualified.**
- Separate entrance tests will be conducted for each of the courses mentioned under courses offered 2017-18 except as follows:
 - There will be a Single Entrance Test for selection of Candidates for DM in Neuroanaesthesia and PDF in Neuroanaesthesia courses.
 - Similarly, there will be a single Entrance Test for DM in Child and Adolescent Psychiatry and PDF in Child and Adolescent Psychiatry.
 - There will be a single Entrance Test for DM in Neuropathology and PDF in Neuropathology.
 - Common Entrance Test will be conducted for M.Phil in Biophysics, M.Phil in Neurophysiology and M.Phil in Neurosciences courses.

- A candidate can apply for a maximum of 3 (three) courses only. MD in Psychiatry, Ph.D in Clinical Neurosciences, DM in Neurology and M.Ch in Neurosurgery are all treated as separate courses.

Admission to B.Sc Courses

The selection will be based on the marks obtained by the common entrance examination conducted by NIMHANS. The list of selected candidates will be prepared separately for each course and displayed on the notice boards of the Institute and the NIMHANS website.

Admission to Diploma Courses

All applications received for DPN/DNN and CCNT courses shall be considered by a Committee constituted by the Director. Weightage in selection shall be given to those candidates sponsored by the Government and other Institutions. The selected candidates shall be informed directly by Registered Post Acknowledgement Due.

All applications received for DCNT course shall be considered by a Committee constituted by the Director and the applicants fulfilling the basic qualifications shall appear before the committee constituted by the Director. The selected candidates shall be informed directly by Registered Post Acknowledgement Due.

Date of Joining

Selected candidates must join the course, after paying the necessary fees on or before the date stipulated in the selection letter failing which the selection shall automatically stand cancelled. The Institute shall offer such seats to the candidates in the waiting list in the order of merit.

Prizes

The following prizes are awarded by NIMHANS to the best outgoing students in various examinations:

1. Dr. D. L. N. Murthy Rao Memorial Prize for the best outgoing student in Diploma in Psychiatry (DPM) examination.
2. Dr. M. V. Govindaswamy Memorial Prize for the best outgoing student (for securing the highest marks in the aggregate of Part I and Part II in M.Phil) in Clinical Psychology examination.
3. Dr. M. V. Govindaswamy Memorial Prize for the best outgoing student (for securing the highest marks in the aggregate of Part I and Part II in M.Phil) in Psychiatric Social Work examination.

4. Dr. M. V. Govindaswamy and Dr. D. L. N. Murthy Rao Memorial Prize for the candidate who secures the highest marks in the examination of Post Basic Diploma in Psychiatric/Mental Health Nursing.
5. Infosys Foundation Award for excellence in Post Basic Diploma in Psychiatric/Mental Health Nursing and Post Basic Diploma in Neurosciences Nursing for securing highest marks.
6. Shri. Mukund Memorial Prize for the candidate who secures the highest marks in Post Basic Diploma in Neurosciences Nursing examination.
7. Silver Jubilee Award for the best outgoing student in DM in Neurology.
8. Silver Jubilee Award for the best outgoing student in M.Ch Neurosurgery.
9. Silver Jubilee Award for the best outgoing student in MD in Psychiatry.
10. Dr. R. N. Moorthy Award for the candidates who secure the highest marks (in the aggregate of Part I and Part II) of M.Phil in Neurophysiology, M.Phil in Biophysics and M.Sc in Psychiatric Nursing examinations.
11. Dr. Anisya Vasanth Memorial Award for the best Postgraduate Resident in Neurology.
12. Golden Jubilee Award for the best outgoing student in DM Neuroradiology.
13. Best outgoing student in Diploma in Clinical Neurophysiology Technology.
14. Dr. V. Sivarajan Award for securing highest marks in 'Microbiology' subject of B.Sc in Nursing course.
15. Best out-going student Award for academic excellence in B.Sc in Nursing.
16. Dr. M. V. Govindaswamy Memorial Prize for best outgoing student in DM in Child & Adolescent Psychiatry.
17. Dr. Usha Punja Award for the best outgoing student in DM Neuroanaesthesia.

General Instructions

1. Application should be submitted online along with all the enclosures and photograph. No hard copy needs to be sent.
2. Candidates called for Interview/Counseling on qualifying in the Entrance test should submit a copy of their application abstract along with copies of certificates at the time of interview/counseling.
3. All claims made in the application must be supported with documentary proof in original at the time of interview/counseling.
4. Employees of State or Central Government or of any Public Sector Undertaking of State or Central government should send their applications through their employers. However, the advance copy of the application (complete in all respects) can be submitted. In case the application is not received through the employer before the date of the ONLINE Entrance test, a NO OBJECTION CERTIFICATE from the employer should be produced at the time of interview/counseling failing which the candidate will not be allowed to appear for interview/counseling.
5. Candidates called for ONLINE Entrance test and interview/counseling will have to make their own arrangements for stay at respective Test Centre. No TA/DA will be paid by NIMHANS.
6. The decision of the Director of the Institute shall be final in all matters of selection of candidates for admission to the various courses and no appeal shall be entertained on this subject.
7. No individual intimation will be sent to candidates who are not selected and no correspondence on this subject will be entertained.
8. All courses are conducted on a full time basis. Private practice in any form is prohibited. The candidates are strictly not permitted to undertake any other part time or correspondence courses.
9. All candidates admitted to the Institute shall maintain good conduct, attend their classes regularly and abide by the regulations of the Institute.
10. Selected candidates shall have to submit migration certificate and TC from the University from which they have passed the last qualifying examination, at the time of joining the Institute.

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11. All the Junior/Senior Residents receiving emoluments from the Institute and admitted to any course will be on contract service for the duration of the studies. They are required to submit a contract bond on a non-judicial stamp paper of the value of Rs.200/-. The bond, duly completed in all respects, shall be submitted at the time of joining, failing which they will not be allowed to join the course. Similarly, all candidates for Ph.D, M.Phil and M.Sc in Psychiatric Nursing are required to submit a bond on a non-judicial stamp paper of the value of Rs.200/-. The bond, duly completed in all respects, shall be submitted at the time of joining, failing which they will not be allowed to join the course.

A sample Copy of the bond is available at the end of the Prospectus.

12. Eligible candidates for ONLINE Entrance Test can download the e-hall ticket online to produce at the time of Entrance Test.
13. List of all the qualified candidates and list of candidates called for interview/counseling will be notified on the Institute's Notice Board and the Website. No separate individual intimation will be given. Non receipt of notice by any individual candidate will not vitiate the selection process having regard to publication of result as also schedule on the notice board and the website. The decision of the Director in all matter regarding selection will be final and no representation in any form will be entertained.
14. Any changes in date, time, venue and or schedule of the ONLINE Entrance Tests, Counseling, and Interview will be announced on our website and notice boards, no individual intimation will be given to the candidates.
15. The candidates are requested to keep themselves updated by visiting our website regularly from time to time or keeping in touch with the Academic section of NIMHANS on 080 26995013.
16. The rules and regulations in this prospectus are subject to change in accordance with the decision of the Institute from time-to-time.

Guidelines for Online Entrance Test

The Entrance test will be held online (i.e., computer based). The seven cities identified for conduct of ON-LINE Entrance Test in the year 2017-18 are BANGALORE, CHENNAI, COCHIN, HYDERABAD in the South, PUNE in the West, DELHI in the North, and KOLKATA in the East. There may be multiple test centres in these cities and NIMHANS reserves the right to distribute applicants to any test centre. A candidate has to select three cities, for taking examination, in the order of priority, i.e., first, second and third choices. However, the choice of city for taking examination, or the centre in a given city, cannot be claimed as a matter of right. Under exceptional circumstances like lack of minimum number of applicants for a given centre in a given city, NIMHANS reserves the right to cancel the choice of city / centre.

Entrance test for admission to courses at NIMHANS will be held in the cities of Bengaluru, Chennai, Cochin, Hyderabad, Pune, Delhi, and Kolkata in 2017-18.

1. Common Entrance Test will be conducted for all the 10 PDF courses under Psychiatry and choice of course will be given to candidates based on the order of merit in the entrance examination those i.e., the candidate securing highest marks will have the first option of selecting any of the 10 PDF courses.
2. Common Entrance Test will be conducted for all the 5 PDF courses under Neurology and choice of course will be given to candidates based on the order of merit in the entrance examination those i.e., the candidate securing highest marks will have the first option of selecting any of the 5 PDF courses.

A mock test demo will be hosted on the NIMHANS website 15 days prior to the Online Entrance Test. The Online Entrance Test will be conducted for 2 days at all the Test Centres across the country.

In the event of unforeseen problem/force majeure, a re-exam will be held at a later date only for those who attended the abandoned exam. NIMHANS reserves the right to decide whether the re-exam relates to one or more cities, or one or more centre, or one or more courses.

Possession/use of mobile phones/spy cameras/ Bluetooth and any other electronic devices is strictly prohibited on the premises of NIMHANS entrance test centres and candidates shall be liable for penal action for any such act.

All the candidates applying for admission to a course at NIMHANS have to give the following declaration:

“I fulfil all the eligibility criteria and I am applying for the courses at NIMHANS. I understand that my candidature will be cancelled. If I am found to have given wrong information. I also substantiate my claim by attaching necessary certificates”

Annual & Supplementary Examinations

1. Annual Examinations	
Superspeciality courses – Part II (New regulations)	Second Monday of January
PG Medical & Non-Medical/PG Diploma courses	Second Monday of June
CCNT/DCNT/DPN/DNN courses	Second Monday of July
Superspeciality courses (Part I, III/new) (Part II/old)	Second Monday of July
B.Sc Nursing courses (I,II, III, IV Years)	Second Monday of June onwards
B.Sc Anaesthesia Tech. course (I, II, III Years)	Second Monday of June onwards
B.Sc Radiography course (I, II, III Years)	Second Monday of June onwards
Pre-Ph.D	Fourth Monday of June/December
2. Supplementary Examinations	
Superspeciality courses (Part I, III/new) (Part II/old)	Second Monday of January
Superspeciality courses – Part II (New regulations)	Second Monday of July
PG Medical & Non-Medical courses	Second Monday of October/ December
B.Sc courses	Second Monday of December onwards

Warning

In case any candidate is found to have supplied false information or a false certificate or is found to have withheld or concealed some information, he/she shall be debarred from continuing the course and shall face such appropriate action initiated against him/her by the Director of the Institute.

Ragging

Ragging is banned in this institution and if any incident of ragging comes to the notice of the authority, the student concerned shall be given opportunity to explain and if his/her explanation is not found satisfactory, the authority would expel him/her from the Institute.

The candidates along with their parents/guardians have to sign a declaration that they are aware about ragging being banned at this Institution and if found indulging in ragging, the student concerned shall be given liberty to explain and if his/her explanation is not found satisfactory, the authority would expel him/her from the Institute.

Anti-Ragging Committee has been constituted with Dr. Sanjib Sinha, Prof. of Neurology as Chairman.

Grievance Redressal Committee

NIMHANS has constituted a Grievance Redressal Committee with Dr. T. R. Raju, Sr. Prof. of Neurophysiology as Chairman.

Internal Complaints Committee

NIMHANS has constituted an Internal Complaints Committee with Dr. Pratima Murthy, Prof. of Psychiatry, Centre for Addiction Medicine as Chairperson. The name of Sexual Harassment Committee was changed as Internal Complaints Committee under Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act 2013, on 07.10.2016.

Accommodation

There are six hostels attached to the Institute – Kabini hostel and its annexe, staff hostel, hostel for men, hostel for ladies and two hostels for female nurses. Hostel accommodation is provided only to resident doctors, students, research fellows/officers and to trainees from other institutes. Employees (both permanent and ad-hoc) are not eligible for hostel accommodation.

All residents are expected to stay in the hostel and its annexe, subject to availability of accommodation. Kabini hostel and its annex are meant for resident doctors. Senior residents will be given priority in allocation of accommodation for family rooms.

Students admitted to post-graduate courses or the Ph.D Program or to M.Phil courses are provided accommodation in staff hostel, men's or ladies' hostels. The accommodation generally will be a single room facility and is partially furnished. Family accommodation cannot be guaranteed. Preference is given for senior residents and Ph.D students. The accommodation is free for junior residents. However, they are required to pay Rs.250/- per month towards electricity and water charges. Candidates who are admitted to the Ph.D and M.Phil courses are required to pay Rs.250/- per month towards electricity and water charges and the hostel rent is as per the rates fixed by the Institute. Candidates admitted to the nursing course are provided rent free and partially furnished accommodation.

Those residing in the hostels should compulsorily join the mess, which is run on a sharing basis. The warden appointed by the Director shall have general supervising authority over the hostel inmates. Those residing in the hostel are required to adhere to hostel rules and regulations.

Kannada Language Learning Program

Kannada is one of the oldest Dravidian languages. It is the state's official language. It is desirable that Non-Kannada speaking PG students make efforts to learn this language for better communication with patients and their family members. The Department of Publication organizes a three-month Kannada Language Learning Program in collaboration with the Department of Kannada & Culture, Government of Karnataka. Students are required to attend these sessions. As majority of the patients seen at NIMHANS speak Kannada, it is mandatory that students learn to comprehend and speak Kannada.

Alumni Association

All graduates of NIMHANS are requested to become members of the NIMHANS Alumni Association.

Central Facilities

Advanced Centre for Ayurveda in Mental Health and Neuro Sciences

The Centre was established in the year 1959 as a regular department under NIMHANS and subsequently amalgamated in 1971, with the Central Council for Research in Ayurvedic Sciences, New Delhi, for financial and technical assistance. The Centre extends Research and Therapeutic Services predominantly in Psychiatric and Neurological disorders.

The Centre has full-fledged Outpatient and Inpatient facilities. The Inpatient Unit consists of two General Wards and four Pay Wards supported with well-equipped Panchakarma Therapy rooms. It functions under the overall administrative and technical guidance of the Director, NIMHANS

Biomedical Engineering

The Biomedical Engineering department manages and provides the Computer Network (LAN) and Wi-Fi connectivity to more than 3000 nodes having 1 Gbps speed through National Knowledge Network of Government of India. All the hardware, network and software issues related to the systems connected in the network are taken care of by the department. Closed user group communication (mobile telephone) is provided to all the clinicians, residents and essential service staff in the Institute and this is monitored by the department of Biomedical Engineering. The Biometric attendance and access control systems are maintained by Biomedical Engineering.

Canteen

There is a good canteen facility catering to the needs of the staff, students and the public.

Central Animal Research Facility

At the Central Animal Research Facility (CARF), a 60-hour certificate course on Care, Breeding and Management of Laboratory animals is conducted. In addition to this, practical training programs will be conducted using routine laboratory animal techniques.

Cognitive Neurosciences

The Laboratory is located in the Ashwini Block, next to Emergency Services. A 3T MRI with capability to record EEG simultaneously with fMRI is established to undertake studies in Cognitive Neurosciences.

Convention Centre

The state-of-the-art NIMHANS Convention Centre offers exceptional facilities for scientific conferences, seminars, trade shows, expositions, and media events. The Centre houses three auditoriums with advanced amenities and seating capacities ranging from 150 to 850. The Centre also has well-appointed dining hall, ample parking facility, and storage and guest rooms.

Engineering Section

A full-fledged Engineering Section encompassing Civil, Electrical and Horticultural Engineering divisions is functional at this Institute. Engineers deputed from the Government of Karnataka handle the construction works and maintenance of existing buildings/infrastructure.

Free Legal Aid Cell - NIMHANS

Advocates listed by Karnataka State Legal Aid Authority provide free legal services to needy patients and the caregivers. The facility is located in the OPD complex of NIMHANS.

Library & Information Services

Library and Information Centre, NIMHANS, recognized as National Neurosciences Information Centre (NNIC), functions as a national clearing-house for mental health and neurosciences information in India. It has 51,000 volumes and subscribes to both print and electronic journals.

Online access to 4700 e-journals related to the field of mental health and neuro sciences is provided through campus network, which has a fiber optic backbone with more than 700 nodes. The full text of the journals is integrated to single interface and bibliographical database for easy access to the users on any topic of interest for academic, research and health care purposes.

Library and Information Centre has published two full text databases on CD viz., (1) 'Neurology India on CD' with full text of 45 years covered from Vol.1 – Vol.45 (1953-1997) (2) 'NeuroMed on CD' which covers three Indian Journals for 15 years.

Neurobiology Research Centre, NIMHANS

The Centre is located opposite to the Library and Information Centre in the Administrative Wing of NIMHANS. The Research Centre has 14 laboratories working in frontiers of Neuro biology promoting inter-disciplinary research, sharing scientific ideas and sophisticated equipment. The building is Wi-Fi enabled and under video surveillance.

NIMHANS 'Centre for Well Being'

The Centre located at BTM Layout (4 kilometers from NIMHANS), is utilized by the faculty of Clinical Psychology, Psychiatry and Psychiatric Social Work to promote preventive and positive mental health and offer counseling services to the needy in an urban city.

NIMHANS Gymkhana

NIMHANS has a state-of-the-art 'GYMKHANA'. Multi-gym for ladies and gents and indoor/outdoor games facilities like badminton court, carom, chess, table tennis, football, cricket, hockey volleyball etc., are made available. The Gymkhana also organizes various sports competitions and cultural activities for both students and staff of NIMHANS.

Photography

The Photography Section assists in video coverage and taking photographs of all the major programs of the Institute. It also assists clinicians in their dissertations/research activities and in the production of Information, Education & Communication materials.

Publication

The Publication Department brings out Annual Reports, Institute activity reports, research publications and health education materials periodically. More than 70 publications have been brought out so far. In addition, the department coordinates the translation work of materials from English to Hindi and regional languages. Hindi Cell, now part of the Publication Department, undertakes various activities under the guidance of the Department of Official Language, Union Ministry of Health and Family Welfare, Government of India with a view to ensure compliance with the Official Language Implementation policies and Constitutional provisions, and to promote progressive use of Hindi for the official purposes.

Agreement Bond formats for various courses

Ph.D courses

Know all men by those presents that We/I.....Son/Daughter of
.....residingat(FullAddress)
..... hereinafter called the 'STIPENDIARY'(which expression shall unless excluded
by or a repugnant to the context include his/her heirs, executors, administrators and legal re presentatives)
and (Full name and address):

(1)
and (Full name and address)

(2)
hereinafter called 'the First Surety' and 'the Second Surety' respectively (which expression shall unless
excluded by or repugnant to the context include their respective heirs, executors, administrators and legal
representatives) bind ourselves jointly and severally to pay the Board of Management of the National
Institute of Mental Health and Neuro Sciences, Bengaluru- 560 029 (hereinafter called the 'NIMHANS')
on demand and without demur in the event of breach of contract as provided in Clause.4 of the agreement
all the amount spent on the stipendiary together with further sum not exceeding 30% thereof drawn as
penalty during the course. Further it is also agreed upon to pay a sum equal to six full months stipend in
the event of discontinuance of the course as provided in Clause.5 of the agreement.

2. Signed this day ofin the year two thousand and seventeen.

3. Whereas the stipendiary is nominated to the NIMHANS stipend at the rate of Rs.25,000/- per month
for I and II years and Rs.28,000/- for III, IV and V Years for the study of postgraduate Ph.D in
..... at the National Institute of Mental Health
and Neuro Sciences, Bengaluru- 560 029 on the condition of his/her executing a bond supported by two
sureties on the terms appearing hereinafter which the stipendiary has agreed to do.

4. Now the condition of the above written obligation is that in the event of the above bounden stipendiary participating in a strike or being made to leave the training course on account of indiscipline or misconduct on his/her part or refusing to serve the Institute for a period of 3 years is required to do so within a period of six months after qualifying for full registration completing the course or for other reasons not considered valid and satisfactory by the Director, National Institute of Mental Health and Neuro Sciences, Bengaluru- 560 029, whose decision in this behalf shall be final, the stipendiary and the sureties jointly and severally pay and refund to the Director , NIMHANS, on demand and without demur all the amount spent on the stipendiary together with a further sum not exceeding in the aggregate 30% thereof as penalty on account of the said training of studies as the Director, NIMHANS may direct. The decision of the Director, NIMHANS as to the commission of breach or any indiscipline, misconduct on the part of the stipendiary as also the amount of penalty payable and as to whether the stipendiary has or has not performed and observed the conditions and obligations under these presents shall be final and binding on the stipendiary and the sureties.
5. The stipendiary except as provided in the agreement, discontinues the course to which he/she has been admitted without completing in the middle shall be liable to pay a sum of six full months stipend to the Institute as penalty besides forfeiture of stipend for the month in which he/she discontinues the course with interest until realisation, and the sureties are equally responsible.
6. And upon making such payment, the above written obligation shall be void and of no effect, but otherwise, it shall be and remain in full force and virtue.
7. And the sureties hereby covenant with the Director, NIMHANS that liability of the sureties hereunder shall not be impaired or discharged by reason of time being granted or any forbearance, act or omission of the Institute (whether with or without the knowledge or consent of the sureties) in respect of or in relation to the several obligations and conditions to be performed or discharged by a stipendiary or by any other matter or thing whatsoever which under the law relating to sureties, shall but for this provision, have the effect of releasing the sureties from such liability, nor shall it be necessary for the Institute to sue the stipendiary before suing either of the sureties for amount due hereunder.
8. It is agreed that the stamp duty shall be borne by the student.
9. In witness whereof the said stipendiary and the sureties have put their respective hands the day and year herein above written hereunto and Sri/Smt/Dr.....

Signed by the Stipendiary in the

Presence of

(Permanent address proof should

be produced at the time of admission).

.....

Signature of the Stipendiary

Signed by the First Surety (Parent)
in the presence of
(ID, Address proof should be enclosed)

.....
Signature of first surety

Signed by the Second Surety (Guardian)
in the Presence of
(ID, Address proof should be enclosed)

.....
Signature of second surety

Certified that the above named sureties are solvent and acceptable.

.....
Signature of the Magistrate/Notary
(With Seal)

Agreement for Senior Residents

Articles of agreement made this day of year 2017 between Dr.....
son ofresiding at.....
.....(hereinafter
called the 'SENIOR RESIDENT') on the one part and the Governing Body of the National Institute of Mental
Health and Neuro Sciences, Bengaluru-560 029 (hereinafter called "the NIMHANS") on the other part.

Whereas the NIMHANS intend to appoint the part of the first part as Senior Resident for a period from
..... to till the completion of the course.

And whereas it has been agreed by and between the parties hereto that the Senior Resident shall serve the
NIMHANS on the terms and conditions herein contained.

Now these present witness and parties hereto respective agree as follows:

1. The Senior Resident shall submit himself/herself to the orders of the NIMHANS and the Officers and
authorities under whom he/she from time to time be placed by the NIMHANS and shall serve as
Senior Resident for a period till completion of the PG course commencing from day of
..... year 2017 until his/her services are terminated previously as herein after provided. The

NIMHANS may in its discretion however extend this term by a short period until arrangements for a substitute is made.

2. The services of the Senior Resident may be terminated as follows:
 - (i) By the NIMHANS or its authorised Officers without any previous notice if the NIMHANS is satisfied on medical evidence that the Senior Resident is unfit and is likely for a considerable period to continue unfit by reason of ill health for the discharge of his/her duties provided always that the decision of the NIMHANS that the Senior Resident is unfit and is likely to continue unfit shall be conclusive and binding on him/her.
 - (ii) By the NIMHANS or its authorised Officers without any previous notice if the Senior Resident shall be guilty of any insubordination, intemperance or other misconduct or any breach or non-performance of any of the provisions of this agreement or of any rules pertaining to the Institution where he/she may from time to time be placed by the NIMHANS.
 - (iii) By thirty days notice in writing given at any time during service under this agreement by the NIMHANS or its authorised officers to him/her without cause assigned.
3. Provided always that the NIMHANS may in lieu of any notice herein provided for, give the Senior Resident a sum equivalent to the amount of his salary for thirty days or shorter notice than thirty days if it pays him a sum equal to the amount of his salary for the period by which such notice falls short of thirty days. The term salary for the purpose of this provision shall mean the salary the Senior Resident would be receiving under Clause.6 of this agreement.
4. If the Senior Resident be suspended from duty in connection with the investigation into his/her conduct, he/she shall not be entitled to any salary during such period of suspension but shall be entitled to receive a subsistence grant at such rate as the NIMHANS may decide to allow him/her.
5. The Senior Resident shall devote his/her whole time to the duties of the said service and shall not engage, directly or indirectly in any trade, business, occupation or profession (including any private practice) on his/her own account and shall not (except in case of accident or sickness certified by competent medical authority) absent himself/herself from his/her said duties without having first obtained permission from the NIMHANS or its authorised Officers.
6. The Senior Resident shall not except as provided in this agreement resign his/her appointment without completing the postgraduate course to which he/she has been admitted by the University concerned. Defaulters shall be liable to pay a sum equal to six full months salary last drawn by him/her to NIMHANS as penalty besides forfeiture of his/her emoluments for the month in which he/she leaves the Institution with interest until realisation and the sureties are equally responsible.

7. With effect from theday of2017 the NIMHANS shall pay the Senior Resident so long as he/she remains in the said service and actually performs his/her duties as aforesaid at the monthly rate of Rs.18,750/- + Grade pay Rs.6,600/- for the I Year, Rs.19,510/- + Grade pay Rs.6,600/- for the II Year Resident and Rs.20,300/- + Grade pay Rs.6,600/- as III Year Resident as the case may be. This will be inclusive of allowance like PGA. They are eligible for allowances like NPA, DA and CCA as applicable from time to time.
8. The Senior Resident shall be eligible for such concession in relation to Medical attendance and treatment as may be prescribed by the NIMHANS.
9. Subject to availability, the Senior Resident will be entitled to free furnished Hostel Accommodation with free electricity and water within the prescribed limits.

Family quarters close to the Hostel at concessional rate may be given wherever possible. The Senior Resident shall have to abide by the rules and regulations of the Hostel where he/she is accommodated and shall occupy the room allotted to him/her only as a licensee.

10. The Senior Resident shall vacate the accommodation given to him/her as aforesaid within ten days of the expiry of the term or earlier in the event of early termination of employment. The Head of the Institution where such accommodation is provided shall be entitled to take action for eviction in case the Senior Resident fails or neglects to vacate such accommodation and delivery of peaceful possession thereof to the Head of the Institution.
11. Besides academic working in pursuance of the postgraduate studies the Senior Resident shall carry out all the duties and responsibilities required of him/her to be performed and under taken by the Head of the Institution where he/she will be placed in the discharge of the patient care and maintenance of records and such other clinical and technical duties as may be assigned to him/her by the aforesaid authorities from time to time in the interest of efficient patient care and running of the Hospital. The decision of such authority as to whether the Senior Resident has satisfactorily carried out all the duties and responsibilities aforesaid shall be final and binding on the Senior Resident for the completion of that course.
12. The working hours of the Senior Resident will not normally exceed continuous duty for more than 12 hours in a day subject to such exigencies as may arise in the working of the Institution where he/she may be placed and in this respect also, the decision of the Head of the Institution shall be final and binding on the Senior Resident.
13. The Senior Resident may be allowed one day off in a week on rotation basis subject to exigencies of work.
14. The Senior Resident shall be liable to be on call duty which shall not normally exceed 12 hours at a time.

15. During the term of employment Senior Residents are eligible for leave as per the Residency scheme.
16. The Senior Resident shall not be allowed to apply for a job position/assignment elsewhere during the course of his/her postgraduate studies and such applications shall not be forwarded during the validity of the agreement.
17. The Senior Resident shall not be issued certificate/testimonials of any kind bearing evidence of satisfactory work, experience, performance, etc., in case of discontinuation of his/her studies.

Signed by the Stipendiary in the
Presence of
(Permanent address proof should
be produced at the time of admission).

.....
Signature of the Stipendiary

Signed by the First Surety (Parent)
in the presence of
(ID, Address proof should be enclosed)

.....
Signature of first surety

Signed by the Second Surety (Guardian)
in the Presence of
(ID, Address proof should be enclosed)

.....
Signature of second surety

Certified that the above named sureties are solvent and acceptable.

.....
Signature of the Magistrate/Notary
(With Seal)

Agreement for Junior Residents

Know all men by those presents that I/We Son/Daughter of
.....residing at (Full Address).....
.....

hereinafter called the Junior Resident (which expression shall unless excluded or a repugnant to the context include his/her heirs, executors, administrators and legal representatives) and (Full name and address):

- (1)
.....and (Full name and address)
- (2)

hereinafter called 'the First Surety' and 'the Second Surety' respectively (which expression shall unless excluded by or repugnant to the context include their respective heirs, executors, administrators and legal representatives) bind ourselves jointly and severally to pay Board of Management of the National Institute of Mental Health and Neuro Sciences, hereinafter called the 'NIMHANS' on demand and without demur in the event of breach of contract as provided in clause.4 of the agreement all the amount spent on the stipendiary together with further sum not exceeding 30% thereof drawn as penalty during the course. Further, it is also agreed upon to pay a sum equal to six full months salary in the event of discontinuance of course as provided in the Clause.6 of the agreement.

ARTICLES OF AGREEMENT SIGNED THIS day of in the year two thousand and seventeen.

WHEREAS the NIMHANS intend to appoint the party of the first part as Junior Resident for the period of years commencing from the date of 2017.

Now these present witness and the parties here to respectively agree as follows:

1. The Junior Resident shall submit himself/herself to the orders of the NIMHANS and the Officers and authorities under whom he/she may from time to time be placed by the NIMHANS and shall serve as Junior Resident for a period of years commencing from the day of 2017 until his/her services are terminated previously as hereinafter provided. The NIMHANS may in its discretion however extend this term by a short period until arrangements for a substitute is made.

2. The services of the Junior Resident may be terminated as follows:
 - (i) By the NIMHANS or its authorised Officers without any previous notice if the NIMHANS is satisfied on medical evidence that the Junior Resident is unfit and is likely for a considerable period to continue unfit by reason of ill health for the discharge of his/her duties provided always that the decision of the NIMHANS that the Junior Resident is unfit and is likely to continue unfit shall be conclusive and binding on him/her.
 - (ii) By the NIMHANS or its authorised Officers without any previous notice if the Junior Resident shall be guilty of any insubordination, intemperance or other misconduct or any breach or non-performance of any of the provisions of this agreement or of any rules pertaining to the Institution where he/she may from time to time be placed by the NIMHANS.
 - (iii) By thirty days notice in writing given at any time during service under this agreement by the NIMHANS or its authorized officers to him/her without cause assigned provided always that the NIMHANS may in lieu of any notice herein provided for, give the Junior Resident a sum equivalent to the amount of his/her salary for thirty days or shorter notice than thirty days if it pays him/her a sum equal to the amount of his/her salary for the period by which such notice falls short of thirty days. The term salary for the purpose of this proviso shall mean the salary the Junior resident would be receiving under clause.6 of this agreement.
3. If the Junior Resident be suspended from duty in connection with investigation into his/her conduct, he/she shall not be entitled to any salary during such period of suspension but shall be entitled to receive a subsistence grant at such rate as the NIMHANS may decide to allow him/her.
3. Now the condition of the above written obligation is that in the event of the above bounden beneficiary participating in a strike or being made to leave the training course on account of indiscipline or misconduct on his/her part or refusing to serve the Institute for a period of _____ years is required to do so within a period of six months after qualifying for full registration completing the course or for other reasons not considered valid and satisfactory by the Director, National Institute of Mental Health and Neuro Sciences, Bengaluru- 560 029, whose decision in this behalf shall be final, the beneficiary and the sureties jointly and severally pay and refund to the Director, NIMHANS, on demand and without demur all the amount spent on the beneficiary together with further sum not exceeding in the aggregate 30% thereof as penalty on account of the said training of studies as the Director, NIMHANS may direct. The decision of the Director, NIMHANS as to the commission of breach or to any indiscipline, misconduct on the part of the beneficiary as also the amount of penalty payable and as to whether the beneficiary has or has not performed and observed the conditions and obligations under these presents shall be final and binding on the beneficiary and the sureties.
5. The Junior Resident shall devote his/her whole time to the duties of the said service and shall not engage, directly or indirectly in any trade, business, occupation or profession (including any private practice) on his/her own account and shall not (except in case of accident or sickness certified by competent medical

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authority) absent himself/herself from his/her said duties without having first obtained permission from the NIMHANS or its authorized Officers.

6. The Junior Resident shall not except as provided in this agreement resign his/her appointment without completing the postgraduate course to which he/she has been admitted by the University concerned. Defaulters shall be liable to pay a sum of six months salary to the NIMHANS as penalty besides forfeiture of his/her emoluments for the month in which he/she leaves the Institutions with interest until realisation and the sureties are equally responsible.
7. With effect from the day of 2017 the NIMHANS shall pay the Junior Resident so long as he/she remains in the said service and actually perform his/her duties as aforesaid at the monthly rate of Rs.15,600/- for the I Year, Rs.16,230/- for the II Year Resident and Rs.16,880/- as III Year Resident as the case may be. This will be inclusive of allowance like PGA. They are eligible for allowances like NPA, DA and CCA as applicable from time to time.
8. The Junior Resident shall be eligible for such concession in relation to Medical attendance and treatment as may be prescribed by the NIMHANS.
9. Subject to availability, the Junior Resident will be entitled to free furnished Hostel Accommodation with free electricity and water within the prescribed limits.
10. Family quarters close to the Hostel at concessional rate may be given wherever possible. The Junior Resident shall have to abide by the rules and regulations of the Hostel where he/she is accommodated and shall occupy the room allotted to him/her only as a licensee.
11. The Junior Resident shall vacate the accommodation given to him/her as aforesaid within ten days of the expiry of the term or earlier in the event of early termination of employment. The Head of the Institution where such accommodation is provided shall be entitled to take action for eviction in case the Junior Resident fails or neglects to vacate such accommodation and delivery of peaceful possession thereof to the Head of the Institution.
12. Besides academic working in pursuance of the postgraduate studies the Junior Resident shall carry out all the duties and responsibilities required of him/her to be performed and under taken by the Head of the Institution where he/she will be placed in the discharge of the patient care and maintenance of records and such other clinical and technical duties as may be assigned to him/her by the aforesaid authorities from time to time in the interest of efficient patient care and running of the Hospital. The decision of such authority as to whether the Junior Resident has satisfactorily carried out all the duties and responsibilities aforesaid shall be final and binding on the Junior Resident.
13. The working hours of the Junior Resident shall not normally exceed continuous duty for more than 12 hours in a day subject to such exigencies as may arise in the working of the Institution where he/she may

be placed and in this respect also, the decision of the Head of the Institution shall be final and binding on the Junior Resident.

14. The Junior Resident shall be liable to be on call duty which shall not normally exceed 12 hours at a time.
15. During the term of employment 30 days leave for first year and 36 days for each subsequent years will be permissible.
16. The Junior Resident shall not be allowed to apply for a job position/assignment elsewhere during the course of his/her postgraduate studies and such applications shall not be forwarded during the validity of the agreement.
17. The Junior Resident shall not be issued certificate/testimonials of any kind bearing evidence of satisfactory work, experience, performance, etc., in case of discontinuation of his/her studies.

In witness whereof the said stipendiary and the sureties have put their respective hands the day and year herein above written hereunto and Dr.....

Signed by the Stipendiary in the
Presence of
(Permanent address proof should
be produced at the time of admission). Signature of the Stipendiary

Signed by the First Surety (Parent) in the
Presence of
(ID, Address proof should be enclosed) Signature of first surety

Signed by the Second Surety (Guardian)
in the presence of
(ID, Address proof should be enclosed) Signature of second surety

Certified that the above named sureties are solvent and acceptable.

.....
Signature of the Magistrate/Notary
(With Seal)

Note: Deputed and sponsored candidates who are not receiving residency benefit from NIMHANS are also required to furnish this bond with the deletion of Clause.6 & 7 of the agreement.

M.Phil courses

Know all men by those presents that We/I.....Son/Daughter of
.....residing at (Full Address).....
.....

hereinafter called the 'STIPENDIARY' (which expression shall unless excluded by or a repugnant to the context include his/her heirs, executors, administrators and legal representatives) and (Full name and address):

- (1)
.....and (Full name and address)
- (2)

hereinafter called 'the First Surety' and 'the Second Surety' respectively (which expression shall unless excluded by or repugnant to the context include their respective heirs, executors, administrators and legal representatives) bind ourselves jointly and severally to pay the Board of Management of the National Institute of Mental Health and Neuro Sciences, Bengaluru- 560 029 (hereinafter called the 'NIMHANS') on demand and without demur in the event of breach of contract as provided in Clause.4 of the agreement all the amount spent on the stipendiary together with further sum not exceeding 30% thereof drawn as penalty during the course. Further it is also agreed upon to pay a sum equal to six full months stipend in the event of discontinuance of course as provided in the Clause.5 of the agreement.

2. Signed this day of in the year two thousand and seventeen.
3. Whereas the stipendiary is nominated to the NIMHANS stipend at the rate of Rs.2,5000/- per month for the I and II Years for the study of postgraduate M.Phil in at the National Institute of Mental Health and Neuro Sciences, Bengaluru- 560 029 on the condition of his/her executing a bond supported by two sureties on the terms appearing hereinafter which the stipendiary has agreed to do.
4. Now the condition of the above written obligation is that in the event of the above bounden stipendiary participating in a strike or being made to leave the training course on account of indiscipline or misconduct on his/her part or refusing to serve the Institute for a period of 2 years is required to do so within a period of six months after qualifying for full registration completing the course or for other reasons not considered valid and satisfactory by the Director, National Institute of Mental Health and Neuro Sciences, Bengaluru- 560 029, whose decision in this behalf shall be final, the stipendiary and the sureties jointly and severally pay and refund to the Director, NIMHANS, on demand and without demur all the amount spent on the stipendiary together with further sum not exceeding in the aggregate 30% thereof as penalty on account of the said training of studies as the Director, NIMHANS may direct. The decision of the Director, NIMHANS as to the commission of breach or any indiscipline, misconduct on the part of

the stipendiary as also the amount of penalty payable and as to whether the stipendiary has or has not performed and observed the conditions and obligations under these presents shall be final and binding on the stipendiary and the sureties.

5. The stipendiary except as provided in the agreement, discontinues the course to which he/she has been admitted without completing in the middle shall be liable to pay a sum of six full months stipend to the Institute as penalty besides forfeiture of emoluments for the month in which he/she discontinues the course with interest until realisation and the sureties are equally responsible.
6. And upon making such payment, the above written obligation shall be void and of no effect, but otherwise, it shall be and remain in full force and virtue.
7. And the sureties hereby covenant with the Director, NIMHANS that liability of the sureties hereunder shall not be impaired or discharged by reason of time being granted or any forbearance, act or omission of the Institute (whether with or without the knowledge or consent of the sureties) in respect of or in relation to the several obligations and conditions to be performed or discharged by a stipendiary or by any other matter or thing whatsoever which under the law relating to sureties, shall but for this provision, have the effect of releasing the sureties from such liability, nor shall it be necessary for the Institute to sue the stipendiary before suing either of the sureties for amount due hereunder.
8. It is agreed that the stamp duty shall be borne by the student.
9. In witness whereof the said stipendiary and the sureties have put their respective hands the day and year herein above written hereunto and Sri/Smt/Dr.....

Signed by the Stipendiary in the
Presence of
(Permanent address proof should
be produced at the time of admission).

.....
Signature of the Stipendiary

Signed by the First Surety (Parent)
in the presence of
(ID, Address proof should be enclosed)

.....
Signature of first surety

Signed by the Second Surety (Guardian)
in the Presence of
(ID, Address proof should be enclosed)

.....
Signature of second surety

Certified that the above named sureties are solvent and acceptable.

.....
Signature of the Magistrate/Notary
(With Seal)

M.Sc in Psychiatric Nursing

Know all men by these presents that I/We.....Son/Daughter of
.....residing at (Full Address).....

hereinafter called the 'STIPENDIARY' (which expression shall unless excluded or a repugnant to the context include his/her heirs, executors, administrators and legal representatives) and (Full name and address):

- (1).....
.....and (Full name and address)
- (2).....
.....

hereinafter called 'the First Surety' and 'the Second Surety' respectively (which expression shall unless excluded by or repugnant to the context include their respective heirs, executors, administrators and legal representatives) bind ourselves jointly and severally to pay Board of Management of the National Institute of Mental Health and Neuro Sciences, Bengaluru- 560 029 (hereinafter called the 'NIMHANS') on demand and without demur in the event of breach of contract as provided in Clause.4 of the agreement all the amount spent on the stipendiary together with further sum not exceeding 20% thereof drawn as penalty during the course.

2. Signed this day of in the year two thousand and seventeen.
3. Whereas stipendiary is nominated to the NIMHANS stipend at the rate of Rs.3,000/- per month for the I and II Years without any allowances for the study of Postgraduate M.Sc in Psychiatric Nursing Course at the National Institute of Mental Health and Neuro Sciences, Bengaluru on the condition of his/her executing a bond supported by two sureties on the terms appearing hereinafter which the stipendiary has agreed to do.
4. Now the condition of the above written obligation is that in the event of the above bounden stipendiary participating in a strike or being made to leave the training course on account of indiscipline or misconduct on his/her part or refusing to serve the Institute for a period of two years if required to do so within a period of six months after qualifying for full registration completing the course or other reasons not considered valid and satisfactory by the Director, National Institute of Mental Health and Neuro Sciences, Bengaluru- 560 029, whose decision in this behalf shall be final, the stipendiary and the sureties jointly and severally pay and refund to the Director, NIMHANS, on demand and without demur all the amount spent on the stipendiary together with a further sum not exceeding in the aggregate 20% thereof as penalty on account of the said training of studies and the aggregate sum not exceeding Rs.18,000/- as the

NIMHANS

Director, NIMHANS may direct. The decision of the Director, NIMHANS as to the commission of breach or any indiscipline, misconduct on the part of the stipendiary as also the amount of penalty payable as to whether the stipendiary has or has not performed and observed the conditions and obligations under these presents shall be final and binding on the stipendiary and the sureties.

5. The stipendiary except as provided in the agreement discontinues the course to which he/she has been admitted without completing in the middle shall be liable to pay a sum of six full months stipend to the Institute as penalty besides forfeiture of emoluments for the month in which he/she discontinues the course with interest until realization and the sureties are equally responsible.
6. And upon making such payment, the above written obligation shall be void and of no effect, but otherwise, it shall be and remain in full force and virtue.
7. And the surety hereby covenant with the Director, NIMHANS that liability of the sureties hereunder shall not be impaired or discharged by reason of time being granted or any forbearance, act or omission of the Institute (whether with or without the knowledge or consent of the sureties) in respect of or in relation to the several obligations and conditions to be performed or discharged by a stipendiary or by any other matter or thing whatsoever which under the law relating to sureties, shall but for this provision, have the effect of releasing the sureties from such liability, nor shall it be necessary for the Institute to sue the stipendiary before suing either of the sureties for amount due hereunder.
8. It is agreed that the stamp duty shall be borne by the student.
9. In witness whereof the said stipendiary and the sureties have put their respective hands the day and year herein above written hereunto and Sri/Smt.....

Signed by the Stipendiary in the
Presence of
(Permanent address proof should
be produced at the time of admission).

.....
Signature of the Stipendiary

Signed by the First Surety (Parent)
in the presence of
(ID, Address proof should be enclosed)

.....
Signature of first surety

Signed by the Second Surety (Guardian)
in the Presence of
(ID, Address proof should be enclosed)

.....
Signature of second surety

Certified that the above named sureties are solvent and acceptable.

.....
Signature of the Magistrate/Notary
(With Seal)

Bond to be executed by the student selected under external fellowship category and his/her sureties (for Ph.D course)

Know all men by those presents that We/I..... Son/Daughter of
.....residing at (Full Address)

..... hereinafter called the 'STUDENT' (which expression shall unless excluded by or a repugnant to the context include his/her heirs, executors, administrators and legal representatives) and (Full name and address):

(1).....
.....and(Fullname and address)

(2).....
.....

hereinafter called 'the First Surety' and 'the Second Surety' respectively (which expression shall unless excluded by or repugnant to the context include their respective heirs, executors, administrators and legal representatives) bind ourselves jointly and severally to pay the Board of Management of the National Institute of Mental Health and Neuro Sciences, Bengaluru- 560 029 (hereinafter called the 'NIMHANS') on demand and without demur in the event of breach of contract as provided in Clause.4 of the agreement all the amount spent due to be paid by the UGC/CSIR/ICMR together with further sum not exceeding 30% thereof drawn as penalty during the course.

2. Signed this day of in the year two thousand and seventeen.
3. Whereas the student selected for postgraduate Ph.D in at the National Institute of Mental Health and Neuro Sciences, Bengaluru- 560 029 has to execute a bond supported by two sureties on the terms appearing hereinafter which the student has agreed to do.
4. Now the condition of the above written obligation is that in the event of the above bounden student participating in a strike or being made to leave the training course on account of indiscipline or misconduct on his/her part or refusing to serve the Institute for a period of 3 years is required to do so within a period of six months after qualifying for full registration completing the course or for other reasons not considered valid and satisfactory by the Director, National Institute of Mental Health and Neuro Sciences, Bengaluru- 560 029, whose decision in this behalf shall be final. The decision of the Director,

NIMHANS

NIMHANS as to the commission of breach or any indiscipline, misconduct on the part of the student as also the amount of penalty payable and as to whether the student has or has not performed and observed the conditions and obligations under these presents shall be final and binding on the student and the sureties.

5. And upon making such payment, the above written obligation shall be void and of no effect, but otherwise, it shall be and remain in full force and virtue.
6. And the sureties hereby covenant with the Director, NIMHANS that liability of the sureties hereunder shall not be impaired or discharged by reason of time being granted or any forbearance, act or omission of the Institute (whether with or without the knowledge or consent of the sureties) in respect of or in relation to the several obligations and conditions to be performed or discharged by a stipendiary or by any other matter or thing whatsoever which under the law relating to sureties, shall but for this provision, have the effect of releasing the sureties from such liability, nor shall it be necessary for the Institute to sue the student before suing either of the sureties for amount due hereunder.
7. It is agreed that the stamp duty shall be borne by the student.
8. In witness whereof the said student and the sureties have put their respective hands the day and year herein above written hereunto and Sri/Smt/Dr.....

Signed by the student in the

Presence of

(Permanent address proof should
be produced at the time of admission).

.....

Signature of the Student

Signed by the First Surety (Parent)

in the presence of

(ID, Address proof should be enclosed)

.....

Signature of first surety

Signed by the Second Surety (Guardian)

in the Presence of

(ID, Address proof should be enclosed)

.....

Signature of second surety

Certified that the above named sureties are solvent and acceptable.

.....

Signature of the Magistrate/Notary

(With Seal)

Agreement Bond to be executed by B.Sc (Nursing / Radiography / Anaesthesia Technology students)

KNOW ALL MEN BY THESE PRESENTS THAT WE _____ Son / Daughter of _____ residing at (full address) _____ in the district of _____ at present undergoing B.Sc (Nursing / Radiography / Anaesthesia Technology) course in NIMHANS (hereinafter called 'the obligor') AND Shri / Smt./ Miss _____ Son / daughter of Shri / Smt. _____ (hereinafter called "the sureties") do hereby jointly and severally bind ourselves and our respective heirs, executors and administrators to pay to the Director, NIMHANS (hereinafter called "the Government") on demand for the sum of Rs.5,00,000/- (Rupees five lakhs only) besides emoluments paid during the period of one year Compulsory Internship together with interest thereon from the date of demand at Government rates for the time being in force on Government loans or, if payment is made in a country other than India, the equivalent of the said amount in the currency of that country converted at the official rate of exchange between that country and India AND TOGETHER with all costs between attorney and client and all charges and expenses that shall or may have been incurred by the NIMHANS, Bangalore.

WHEREAS the obligor is allotted seat by NIMHANS, Bengaluru to undergo B.Sc (Nursing / Radiography / Anaesthesia Technology) course from _____ to _____

AND WHEREAS for the better protection of NIMHANS the obligor has agreed to execute this bond with such condition as hereunder is written.

AND WHEREAS the said sureties have agreed to execute this bond as Sureties on behalf of the above bounden

NOW THE CONDITION OF THE ABOVE WRITTEN OBLIGATIONS IS THAT in the event of the obligor Shri. / Smt. _____ (failing to undergo one year's compulsory internship or discontinues the internship after the successful completion of B.Sc course, the obligor and the sureties shall forthwith pay to the NIMHANS or as may be directed by the NIMHANS on demand the said sum of Rs.5,00,000/- (Rupees five lakhs only) besides emoluments paid / payable during the period of Compulsory Internship together with interest thereon from the date of demand at Government rates for the time being in force on Government loans or together with interest thereon from the date of demand at Government rates for the time being in force on Government loans.

And upon the obligor Shri. / Smt. _____ and, or Shri. / Smt. _____ and, or Shri. / Smt. _____ the sureties aforesaid making such payment the above written obligation shall be void and of no effect, otherwise it shall be and remain in full force and virtue.

NIMHANS

PROVIDED ALWAYS THAT THE Liability of the sureties hereunder shall not be impaired or discharged by reason of time being granted or by any forbearance, act or omission of the NIMHANS or any person authorized by them (whether with or without the consent or knowledge of the sureties) nor shall it be necessary for the NIMHANS to sue the obligor before suing the sureties Shri. / Smt. _____ and Shri. / Smt. _____ or any of them for amounts due hereunder.

PROVIDED ALWAYS and it is HEREBY SPECIFICALLY AGREED and DECLARED that the decision of the Government, as to whether the student has or has not performed or observed any of the obligations, terms and conditions herein before setout and recited shall be final and binding on the parties hereto.

The bond shall in all respect be governed by the laws of India for the time being in force and the rights and liabilities hereunder shall where necessary be accordingly determined by the appropriate Courts in India.

Signed and dated this _____ day of _____ two thousand and seventeen.

Signed and delivered by the obligor above named **(ID, Address proof should be enclosed)**

Shri. / Smt. _____

In the presence of

Witnesses: 1 _____

2 _____

Signed and delivered by the surety above named **(ID, Address proof should be enclosed)**

Shri. / Smt. _____

In the presence of

Witnesses: 1 _____

2 _____

PROSPECTUS 2017-18

Signed and delivered by the surety above named (**ID, Address proof should be enclosed**)

Shri. / Smt. _____

In the presence of

Witnesses: 1 _____

2 _____

Certified that the above named sureties are solvent and acceptable.

(With Seal)

.....
Signature of the Magistrate/Notary

ACCEPTED

DIRECTOR
NIMHANS, Bengaluru- 560 029

* * * * *