



**NIMHANS**  
**PROSPECTUS**  
**2012-13**

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# **NATIONAL INSTITUTE OF MENTAL HEALTH AND NEURO SCIENCES**

## **(DEEMED UNIVERSITY), BANGALORE**

### **INTRODUCTION**

The Government of India established the All India Institute of Mental Health in 1954 in association with the Mental Hospital of the Karnataka Government. A major objective of the Institute was manpower development in the field of mental health and neurosciences. The Mental Hospital, Bangalore which had already 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 of 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 affiliated to the University of Mysore for the courses.

Subsequently the Institute got affiliated to the Bangalore University in 1964 when the latter was established. 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 Post Graduate Diploma in Psychiatric Social Work (DPSW) in 1968. DM in Neurology and M.Ch. in Neurosurgery courses were introduced in 1970. Later, Ph.D. programmes in different disciplines were introduced.

The All India Institute of Mental Health and the Mental Hospital of the Government of Karnataka were amalgamated into an autonomous Institute, the National Institute of Mental Health and Neuro Sciences (NIMHANS) in 1974. In the subsequent years many post-graduate training programs were started in the areas of Neurophysiology, Biophysics and Psychiatric Nursing. In 1994, NIMHANS was granted the “Deemed to be University” status under which the Institute awards degrees and diplomas. DM in Neuroradiology, Post Doctoral Fellowship in Neuroanaesthesia, Post Doctoral Fellowship in Neuropathology and M.Phil. in Neurosciences are the new courses initiated after the Institute was conferred the status of Deemed University. In the year 2006, B.Sc. in Nursing and B.Sc. in Radiography courses were commenced. In the year 2008, Post Doctoral Fellowship in Child & Adolescent Psychiatry and in the year 2010, Post Doctoral Fellowship in Neuroinfection and B.Sc. in Anaesthesia Technology were commenced. In the year 2011, DM in Neuroanaesthesia, DM in Child & Adolescent Psychiatry, Post Doctoral Fellowship in Neurology a) Epilepsy b) Movement disorders courses were started. The following courses will be commenced from the academic year 2012-13 Post Doctoral Fellowship in Acute Care & Emergency Psychiatry, Post Doctoral Fellowship in Community Mental Health, Post Doctoral Fellowship in Addiction Medicine, Post Doctoral Fellowship in Consultation Liaison Psychiatry, Post Doctoral Fellowship in Geriatric Psychiatry, Post Doctoral Fellowship in Obsessive Compulsive disorder & related disorders and Post Doctoral Fellowship in Clinical Neuro Sciences & Therapeutics in Schizophrenia

The special feature of this Institute is its multidisciplinary approach in patient care, training programmes and also in the promotive, preventive and curative aspects of clinical services in the area of Mental Health and Neuro Sciences. The manpower development programmes at the Institute reflect the extent to which we have succeeded in bringing together and nurturing behavioural sciences, neurosciences, basic biological sciences and ancient health systems in Mental Health and Neurosciences.

## ACADEMIC CALENDAR

### SESSION 1

#### PG Medical, Non Medical and Diploma Courses

a. Advertisement regarding admission	31 <sup>st</sup> October 2011
b. Applications available online from	31 <sup>st</sup> October 2011
c. Applications available online for final submission upto	2 <sup>nd</sup> December 2011
d. Last date for receipt of Application abstract by post/courier	7 <sup>th</sup> December 2011
e. Date of ONLINE entrance test	26 <sup>th</sup> February 2012
f. Date of counseling	1 <sup>st</sup> week of March 2012
g. Commencement of courses	2 <sup>nd</sup> May 2012
h. Last date for admission	9 <sup>th</sup> May 2012

### SESSION 2

#### Super-Speciality, Post Doctoral Fellowship/B.Sc. and DCNT courses

a. Advertisement regarding admission	1 <sup>st</sup> week of March 2012
b. Applications available online from	1 <sup>st</sup> week of March 2012
c. Applications available online till	31 <sup>st</sup> March 2012
d. Last date for receipt of Application abstract by post/courier	5 <sup>th</sup> April 2012
e. Date of ONLINE entrance test	24 <sup>th</sup> June 2012
f. Date of counseling	1 <sup>st</sup> week of July 2012
g. Commencement of courses	1 <sup>st</sup> August 2012
h. Last date for admission	8 <sup>th</sup> August 2012

### SESSION 3

#### Ph.D. for candidates with Fellowship from recognized Institutions/Agencies

(i) Issue and receipt of applications	1 <sup>st</sup> Aug. to 15 <sup>th</sup> Sep. 2012
(ii) ONLINE Entrance test	17 <sup>th</sup> October 2012

## **EXAMINATIONS**

- |                                  |                                  |
|----------------------------------|----------------------------------|
| 1. Annual Examinations           |                                  |
| PG Medical & Non Medical courses | <b>Second Monday of April</b>    |
| Superspeciality courses          | <b>Second Monday of July</b>     |
| B.Sc. courses                    | <b>Second Monday of June</b>     |
| 2. Supplementary Examinations    |                                  |
| PG Medical & Non Medical courses | <b>Second Monday of October</b>  |
| Superspeciality courses          | <b>Second Monday of January</b>  |
| B.Sc. courses                    | <b>Second Monday of December</b> |
| 3. Institute Day                 | <b>14<sup>th</sup> February</b>  |
| 4. Convocation                   | <b>December/January</b>          |
| 5. International Nurses' Day     | <b>12<sup>th</sup> May</b>       |
| 6. Teachers Day                  | <b>5<sup>th</sup> September</b>  |

## **INSTITUTE AUTHORITIES**

	<b>Telephone</b>
<b>Dr.P.Satish Chandra- Director/Vice Chancellor</b>	26995001 26995002 26564140 26561811 26565822
<b>Dr.V.Ravi - Registrar</b>	26995005 26995006 26564199
<b>Dr.G.S.Umamaheswara Rao – Dean (Neurosciences)</b>	26995004 26995416
<b>Dr.D.K.Subbakrishna – Dean (Basic Sciences)</b>	26995004 26995116
<b>Dr.Shoba Srinath– Dean (Behavioural Sciences)</b>	26995004 26995241

## **HEADS OF THE DEPARTMENTS**

<b>BIOPHYSICS</b> Dr.Preeti G.Joshi, Professor	26995102
<b>BIostatISTICS</b> Dr.D.K.Subbakrishna, Professor	26995116
<b>CHILD &amp; ADOLESCENT PSYCHIATRY</b> Dr.Shoba Srinath, Professor	26995265
<b>CLINICAL PSYCHOLOGY</b> Dr.Ahalya Raguram, Professor	26995191
<b>EPIDEMIOLOGY</b> Dr.G.Gururaj, Professor	26995245
<b>HUMAN GENETICS</b> Dr.Rajalakshmi Gope, Professor	26995125
<b>MENTAL HEALTH EDUCATION</b> Dr.Jayashree Ramakrishna, Professor	26995155

<b>NEUROANAESTHESIA</b> Dr.V.Bhadrinarayan, Professor	26995419
<b>NEUROCHEMISTRY</b> Dr.Rita Christopher, Professor	26995162
<b>NEUROIMAGING &amp; INTERVENTIONAL RADIOLOGY</b> I/c Dr.G.S.Umamaheswara Rao, Sr. Professor	26995425
<b>NEUROLOGY</b> Dr.S.R.Chandra, Professor	26995140
<b>NEUROMICROBIOLOGY</b> Dr.R.Ravikumar, Professor	26995726
<b>NEUROPATHOLOGY</b> Dr.Vani Santosh, Professor	26995130
<b>NEUROPHYSIOLOGY</b> Dr.Bindu M.Kutty, Professor	26995168
<b>NEUROSURGERY</b> Dr.S.Sampath, Professor	26995403
<b>NEUROVIROLOGY</b> Dr.S.N.Madhusudana, Professor	26995126
<b>NURSING</b> Dr.K.Reddemma, Sr. Professor	26995226
<b>PSYCHIATRIC &amp; NEUROLOGICAL REHABILITATION</b> <b>NEURO REHAB.</b> <b>PSYCHIATRIC REHAB.</b> I/c Dr.Arun B.Taly, Professor      I/c Dr.S.K.Chaturvedi, Professor	26995201
<b>PSYCHIATRIC SOCIAL WORK</b> Dr.R.Parthasarathy, Professor	26995233
<b>PSYCHIATRY</b> Dr.Sanjeev Jain, Professor	26995241
<b>PSYCHOPHARMACOLOGY</b> Dr.Chittaranjan Andrade, Professor	26995109
<b>SPEECH PATHOLOGY &amp; AUDIOLOGY</b> Dr.M.Jayaram, Professor	26995569

## **CENTRAL FACILITIES**

<b>ADVANCED CENTER FOR AYURVEDA IN MENTAL HEALTH AND NEURO SCIENCES</b> Dr.D.Sudhakar, Asst. Director (Ay)	26995243
<b>BIOMEDICAL ENGINEERING</b> Mrs.M.G.Sindu, Biomedical Engineer	26995220
<b>CENTRAL ANIMAL RESEARCH FACILITY</b> Dr.J.Suresh Chandra, Sr. Veterinary Officer	26995040
<b>ENGINEERING</b> Mr.N.Muralidhar, Asst. Executive Engineer	26995216
<b>LIBRARY &amp; INFORMATION SERVICES</b> Dr.H.S.Siddamalliah, Principal Library & Information Officer	26995031
<b>PHOTOGRAPHY</b> Dr.Jayashree Ramakrishna, Professor & I/C Head	26995044
<b>PUBLICATION</b> Dr.H.S.Siddamalliah, I/C of Publication	26995036

## **HOSPITAL ADMINISTRATION**

Dr.V.L.Sateesh, Medical Superintendent	26995201
Dr.C.R.Chandrashekar, Deputy Medical Superintendent	26995255
Dr.V.S.Chandrashekar, Resident Medical Officer	26995203
Mr.M.Parameshwara, Asst. Admn. Officer (OPD)	26995524
Mr H.C.Venkateshaiah, Asst. Admn. Officer (Hospital)	26995205
Mrs.S.R.Suvarna Bai, Asst. Admn. Officer (RS)	26995284



## **GENERAL ADMINISTRATION**

Mr.P.Sukumar I/C Financial Advisor & Chief Accounts Officer	26995021
Mr.P.Sukumar Dy. Financial Advisor & Chief Accounts Officer	26995018
Mrs.G.Jayamonie Administrative Officer (A&E) & P.S to Director	26995002
Mr.D.Rajendran Administrative Officer	26995008
Mrs.Leticia Pires Special Officer (Academic & Evaluation)	26995012
Mr. M.N.Shankarsa Asst. Administrative Officer (Personnel)	26995706
Mr.S.Venkatesh Asst. Admn. Officer (Co-ordination)	26995707
Mr.B.G.Balaram Asst. Admn. Officer (Claims)	26995026
Mr.A.Loganathan Asst. Administrative Officer (Accounts)	26995016
Mr.K.N.Vishwanath Asst. Administrative Officer (Project)	26995775
Mr.H.K.Gundappa Asst. Administrative Officer (Accounts)	26995018
Mr.A.C.Ramesh Singh Asst. Administrative Officer (Accounts) (Adhoc)	26995020
Dr.Y.C.Janardhana Reddy Hon. Warden, NIMHANS Hostels	26995266
Dr.Nalini.A Hon. Deputy Warden, NIMHANS Hostels	26995139
Dr.Suresh Bada Math Hon. Deputy Warden, NIMHANS Hostels	26995276
Mr.Praseed Kumar Public Relation Officer	26995010

# COURSES

## A. POST GRADUATE DEGREE/DIPLOMA COURSES

### 1. Ph.D.

#### 1.1 Institute Fellowships

a) Ph.D. degree in Clinical Psychology	6
b) Ph.D. degree in Neurophysiology	2
c) Ph.D. degree in Psychiatric Social Work	1
d) Ph.D. degree in Speech Pathology & Audiology (ICMR FELLOWSHIP)	1
e) Ph.D. degree in Clinical Neurosciences	5

1.2 External Fellowships: Candidates with Sponsorship from Government of India/State Govt. Institutions, Deputed or Sponsored from a recognized University, Fellowships from Government Agencies like UGC, CSIR, ICMR, DBT NET and permanent Employees and tenured employees of NIMHANS can also apply for Ph.D. in the various departments of this Institute, which will be considered at the discretion of the competent authority for Entrance Test and interview to be held during the month of February. Candidates who have cleared the UGC, CSIR, ICMR, DBT NET qualifying exams are exempted from the 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. programme. They 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. programmes will be held in the following departments in the months of February and October.

- a) Biophysics
- b) Biostatistics
- c) Clinical Psychology
- d) HumanGenetics
- e) Mental Health Education
- f) Neurochemistry
- g) Neuromicrobiology
- h) Neuropathology
- i) Neurophysiology
- j) Neurovirology
- k) Nursing
- l) Psychiatry
- m) Psychopharmacology
- n) Speech Pathology & Audiology

2. DM in Neuroradiology - 2 Seats
3. DM degree in Neurology - 10\*Seats (6 Post MD/DNB + 4 Post MBBS)
4. DM degree in Neuroanaesthesia - 3 Seats (1 for sponsored)
5. DM degree in Child & Adolescent Psychiatry - 2 Seats (1 for sponsored)
6. M.Ch. degree in Neurosurgery - 6\* Seats (3 Post MS/DNB + 3 Post MBBS)
7. MD degree in Psychiatry - 22\* Seats<sup>#</sup>
8. Diploma in Psychiatry - 9 Seats (8 seats for Karnataka Domiciles and 1 for sponsored)
9. Post Doctoral Fellowship in Child & Adolescent Psychiatry - 2 Seats (1 for sponsored)
10. Post Doctoral Fellowship in Neuroanaesthesia - 4 Seats (2 for foreign/sponsored)
11. Post Doctoral Fellowship in Neuroinfection - 2 Seats (1 for sponsored)
12. Post Doctoral Fellowship in Neurology - 2 Seats (1 for sponsored)
  - a) Epilepsy
  - b) Movement Disorders
13. Post Doctoral Fellowship in Neuropathology - 2 Seats (1 for foreign/sponsored)
14. Post Doctoral Fellowship in Acute Care & Emergency Psychiatry - 2 Seats (1 for sponsored)
15. Post Doctoral Fellowship in Community Mental Health - 3 Seats (2 for sponsored)
16. Post Doctoral Fellowship in Addiction Medicine - 4 Seats (2 for sponsored)
17. Post Doctoral Fellowship in Consultation Liaison Psychiatry - 2 Seats (1 for sponsored)
18. Post Doctoral Fellowship in Geriatric Psychiatry - 1 Seat (1 for sponsored)
19. Post Doctoral Fellowship in Obsessive Compulsive disorder & related disorders - 2 Seats (2 for sponsored)
20. Post Doctoral Fellowship in Clinical Neuro Sciences & Therapeutics in Schizophrenia - 2 Seats (2 for sponsored)

21. M.Phil. in Biophysics	- 3 Seats
22. M.Phil. in Clinical Psychology	- 21 Seats (3 for foreign/sponsored)
23. M.Phil. in Psychiatric Social Work	- 21 Seats (3 for foreign/sponsored)
24. M.Phil. in Neurophysiology	- 2 Seats
25. M.Phil. in Neurosciences	- 4 Seats
26. M.Sc. in Psychiatric Nursing	- 9 Seats

\*1 seat for Sponsored candidate

#Subject to clearance from the Government of India

### **B. B.Sc. COURSES**

No. of seats

1. B.Sc. in Nursing	77
2. B.Sc. in Radiography	10 (4 for sponsored)
3. B.Sc. in Anaesthesia Technology	6

### **B (1). DIPLOMA COURSES**

No. of seats

1. Post Basic Diploma in Psychiatric/Mental Health Nursing	45
2. Post Basic Diploma in Neuroscience Nursing	9
3. Diploma in Clinical Neurophysiology Technology (DCNT)	6 (2 for sponsored)

### **C. QUALIFYING EXAMINATION REQUIREMENT FOR VARIOUS 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) (i) The candidate should have completed compulsory rotation internship of one year after MBBS or its equivalent 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.

(ii) In case of Candidates who have not completed the Internship and have not registered with any State Medical council, but are selected in the counseling, will not be considered for admission unless the Internship Completion Certificate and the State Medical Council Registration Certificate are produced on or before the date of commencement of course failing which, the seat allotted will be cancelled without any further communication

and the Candidate next in the order of Merit in the waiting list will be considered.

- (c) (i) 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 in writing issued by the University on or before the date of commencement of course.

(ii) In case of Candidates who are selected for the course at this Institution in the counseling and have not produced the proof of passing in the qualifying examination must produce the proof of passing in the qualifying examination on or before the date of commencement of course failing which, the seat allotted will be cancelled without any further communication and the Candidate next in the order of Merit in the waiting list will be considered.

## **C. 2. QUALIFYING EXAMINATION REQUIREMENT FOR VARIOUS NON-MEDICAL COURSES**

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

In the event 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. programme.
- (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 Anaesthesia Technology course.

#### **D. SPONSORED CANDIDATES**

- a. Minimal qualifications are the same as indicated under item F.
- b. The candidate should qualify in the Entrance test.
- c. The candidate should produce the sponsorship certificate in the prescribed format (Please refer page 23)
- d. This certificate should be enclosed along with the application.
- e. Applications without the certificate will not be considered for sponsorship.

#### **E. FOREIGN NATIONALS**

Foreign Nationals are required to submit their applications through the Diplomatic Channel (through the Ministry of External Affairs). They shall also appear for a Common Entrance Test along with the other candidates.

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

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

1. The candidate should submit degree/diploma certificate together with year-wise academic transcript/marksheet 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 favour 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 programmes/courses conducted in India.

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

## **F. MINIMAL QUALIFICATION FOR ADMISSION**

### **1.1 (a to e) Doctor of Philosophy (Ph.D.) Institute Fellowships**

**Duration:** 3 – 5 years

- a) **Ph.D. in Clinical Psychology:** 2 years full time 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.
- b) **Ph.D. in Neurophysiology:** M.Phil. in Neuroscience/Neurophysiology/ MBBS/MD in Physiology/MD in Ayurveda/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
- c) **Ph.D. in Psychiatric Social Work:** Masters Degree in Social Work/ M.Phil. in Psychiatric Social work
- d) **Ph.D. in Speech Pathology & Audiology:** M.Sc. in Speech Pathology & Audiology
- e) **Ph.D. in Clinical Neurosciences:** (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 completed satisfactorily 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. (2) Candidates with Postgraduate medical qualifications can also apply (but no special reservation or preference will be given)

### **1.2 (a to n) Doctor of Philosophy (Ph.D.) External Fellowships**

- a) **Ph.D. in Biophysics:** MBBS/M.Phil. Biophysics/M.Sc. in Biophysics/ Physics/Biochemistry/Biotechnology/Life Sciences/Physiology
- b) **Ph.D. in Biostatistics:** M.Stat. (ISI)/M.Sc. in Statistics/ Biostatistics/Medical Statistics/Health Statistics/ Agricultural Statistics
- c) **Ph.D. in Clinical Psychology:** 2 years full time 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
- d) **Ph.D. in Human Genetics:** M.Sc. in any Life Sciences discipline

- e) **Ph.D. in Mental Health Education:** Masters in Public Health, Health or Behavioural Sciences
- f) **Ph.D. in Neurochemistry:** M.Phil. in Neurosciences/M.Tech. in Biotechnology/M.Sc. in Biochemistry/Biotechnology/Chemistry/Biomedical Genetics/Molecular Biology/Life Science/Neurosciences/Medical Biochemistry/Molecular Genetics/Genetics/Zoology
- g) **Ph.D. in Neuromicrobiology:** MBBS/MD Microbiology/BE Biotechnology/ M.Phil. Neuroscience/M.Sc. in Medical Microbiology/Molecular Biology/MLT /Applied Microbiology/Biochemistry/Biomedical Genetics/Neuroscience
- h) **Ph.D. in Neuropathology:** MD in Pathology/M.Sc. in Life Sciences
- i) **Ph.D. in Neurophysiology:** M.Phil. in Neuroscience/Neurophysiology/ MBBS/MD in Physiology/MD in Ayrveda/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
- j) **Ph.D. in Neurovirology:** MBBS/MD in Microbiology/M.Sc. in Medical Microbiology/MicrobiologyBiotechnology/Virology
- k) **Ph.D. in Nursing:** Master's Degree in Psychiatric Nursing
- l) **Ph.D. in Psychiatry:** MBBS/MD or a Postgraduate degree in the Basic Sciences or Humanities
- m) **Ph.D. in Psychopharmacology:** 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
- n) **Ph.D. in Speech Pathology & Audiology:** Master's degree in Speech Pathology & Audiology.
2. **DM in Neuroradiology:** MD in Radiodiagnosis/DNB in Radiodiagnosis
3. **DM in Neurology**  
 (i) **MBBS:** The duration of the course will be for a period of five years.  
 (ii) **MD/DNB in General Medicine or Pediatrics:** The duration of the course will be for a period of three years.
4. **DM degree in Neuroanaesthesia** MD/DNB in Anaesthesia Technology
5. **DM degree in Child & Adolescent Psychiatry** MD/DNB in Psychiatry



6. **M.Ch. in Neurosurgery**
  - (i) **MBBS**: The duration of the course will be for a period of five years.
  - (ii) **MS/DNB in General Surgery**: The duration of the course will be for a period of three years.
7. **MD in Psychiatry**
  - (i) **MBBS**: The duration of the course will be for a period of three years.
  - (ii) **DPM**: The duration of the course will be for a period of two years.
8. **Diploma in Psychiatry (DPM): MBBS**
9. **Post Doctoral Fellowship in Child & Adolescent Psychiatry: MD/DNB in Psychiatry**
10. **Post Doctoral Fellowship in Neuroanaesthesia: MD/DNB in Anaesthesia**
11. **Post Doctoral Fellowship in Neuroinfection: MD in Microbiology**
12. **Post Doctoral Fellowship in Neurology: DM/DNB in Neurology**
  - a) **Epilepsy**
  - b) **Movement Disorders**
13. **Post Doctoral Fellowship in Neuropathology: MD/DNB in Pathology**
14. **Post Doctoral Fellowship in Acute Care & Emergency Psychiatry: MD/DNB in Psychiatry**
15. **Post Doctoral Fellowship in Community Mental Health: MD/DNB in Psychiatry**
16. **Post Doctoral Fellowship in Addiction Medicine: MD/DNB in Psychiatry**
17. **Post Doctoral Fellowship in Consultation Liaison Psychiatry: MD/DNB in Psychiatry**
18. **Post Doctoral Fellowship in Geriatric Psychiatry: MD/DNB in Psychiatry**
19. **Post Doctoral Fellowship in Obsessive Compulsive disorder & related disorders: MD/DNB in Psychiatry**
20. **Post Doctoral Fellowship in Clinical Neuro Sciences & Therapeutics in Schizophrenia: MD/DNB in Psychiatry**

## **21 – 25 M.Phil. courses**

**Duration:** 2 years

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

**M.Phil. in Clinical Psychology<sup>#</sup>:** 2 years full time MA/M.Sc. in Psychology/Counseling Psychology/Psychological Counseling/Applied Psychology/Clinical Psychology

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

**M.Phil. in Neurosciences:** 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

**M.Phil. in Psychiatric Social Work:** Master's degree in Social Work.

## **26. M.Sc. in Psychiatric Nursing:**

**Duration:** 2 years

- 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 undergone in B.Sc. Nursing/B.Sc. Hons. Nursing/Post Basic B.Sc. Nursing 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 or after post Basic B.Sc. Nursing as on the day of counseling.
- f) Candidate shall be medically fit.

## **B. B.Sc. COURSES**

### **1. B.Sc. in Nursing**

**Duration:** 4 years

- a) 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) 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 with Physics, Chemistry, Biology and English with a minimum 45% aggregate.

## **2. B.Sc. in Radiography**

**Duration:** 3 years

- a) Pre-University examination conducted by 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, Bangalore for the above purpose with Physics, Chemistry, Biology and Mathematics as principal subjects of study with 45% aggregate.

## **3. B.Sc. in Anaesthesia Technology**

**Duration:** 3 years

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

## **B (1). Diploma Courses**

**Duration:** 1 year

### **1. Post Basic Diploma in Psychiatric/Mental Health Nursing**

Should be a registered Nurse (R.N&R.M) in the State Nursing Council with one year experience as staff nurse.

### **2. Post Basic Diploma in Neuroscience Nursing**

Should be a registered Nurse (R.N&R.M) in the State Nursing Council with one year experience as staff nurse.

Nurses applying for the above courses from other countries to obtain an Equivalence Certificate from INC before applying.

### **3. Diploma in Clinical Neurophysiology Technology (DCNT)**

**Duration:** 2 years

- a) B.Sc. with Physics/Electronics/Computer Sciences with minimum II Class in the qualifying examination.  
OR
- b) Diploma in Electronics/Electrical/Instrumentation/Computer (approved by Board of Technical Education).  
OR
- c) 3 years experience as EEG Technician after PUC.

A RELAXATION OF 5% MARKS WILL BE GIVEN TO DETERMINE ELIGIBILITY FOR ACCEPTING APPLICATION TO NON-MEDICAL AND Ph.D. COURSES IN RESPECT OF SC/ST CANDIDATES.

### **G. 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 and relaxable in case of SC/ST candidates by a maximum of 5 years as on the date of commencement of courses. For sponsored candidates, age should not be more than 45 years as on the date of commencement of courses.

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

### **RESERVATION OF SEATS**

1. Following reservation of seats is applicable to the courses (except superspeciality courses - DM in Neurology, DM in Neuroradiology and M.Ch. in Neurosurgery).
  - a) 15% of the seats for SC
  - b) 7.5% of the seats for ST
  - c) 27% of the seats for OBC

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

2. Number of seats and reservation may vary as per the direction of the Government of India order.

3. Eight seats in Diploma in Psychiatry (DPM) and three seats in M.Phil. in Clinical Psychology are reserved for domiciles of Karnataka State.
4. 3% of the PG seats are reserved for persons with above 40% and less than 70% disability (except Nursing, DM in Neurology, DM in Neuroradiology and M.Ch. in Neurosurgery and Post Doctoral Fellowship courses).  
One seat will be reserved every second year on rotation system subject to the candidate qualifying in the Entrance Test in the following courses:  
MD in Psychiatry, M.Phil. in Clinical Psychology, M.Phil. in Psychiatric Social Work and Ph.D.

#### **NOTE**

1. To claim that candidates are residents/domiciles of Karnataka State, he/she should produce a certificate from the Tahsildar 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.
2. No Entrance Test for candidates appearing for Undergraduate courses i.e., B.Sc. in Nursing, B.Sc. in Anaesthesia Technology and B.Sc. in Radiography.
3. No 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. They will be paid emoluments of ₹15600/- per month in the first year, ₹16390/- per month in the second year and ₹17210/- in the third year along with admissible allowances. The emolument is subject to vary as per the Government orders from time to time.

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

Candidates admitted to the M.Phil. courses will be paid stipend of ₹12000/- per month during the course of two years.

Candidates admitted to Ph.D. courses (under Sl. No.1.1 (a to j)) will be paid stipend of ₹16000/- per month for all the three years. Contingency grants of

₹5000/- per annum for subjects under behavioural sciences and ₹7500/- per annum for subjects under basic and neuro sciences will be paid to Research Scholars.

Candidates admitted to Ph.D. in Clinical Neurosciences course (under Sl. No.1.1 (k)) (under ICMR Fellowship) will be paid emoluments of ₹15600/- per month in the first year, ₹16390/- per month in the second year and ₹17210/- in the third year along with admissible allowances. The emolument is subject to vary as per the Government orders from time to time. Contingency grants of ₹20000/- will be paid per year to Research scholars.

Candidates admitted to M.Sc. in Psychiatric Nursing course will be paid ₹3000/- 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 ₹2000/- per month. Candidates admitted to Diploma in Clinical Neurophysiology Technology Course will be paid ₹2000/- 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.

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 candidates in Indian Rupees.

## **ENCLOSURES**

Medical courses: Final year Mark Sheet, Attempt, Internship Completion, Registration Certificates and SSC Marks sheet. Caste Certificate in case of SC/ST/OBC category. Non Medical courses: Final year/semester qualifying exam mark sheet, Caste Certificate in case of SC/ST/OBC category and experience certificate (if applicable). Applications without these enclosures will be rejected without intimation.

## **SPONSORSHIP CERTIFICATE**

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 for \_\_\_\_\_ course at NIMHANS, Bangalore.
3. The candidate is being sponsored 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, Bangalore 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

## FEE STRUCTURE FOR INDIAN NATIONALS

(All figures are in rupees)

Sl. No.	Nature of Fees	Ph.D.	DM/M.Ch.	MD/PDF	DPM	M.Phil.	M.Sc.	B.Sc. Nursing	B.Sc. Anaesthesia Tech./ Radiography	DCNT DPN/DNN	Remarks
1	Eligibility fee: 1) Other Universities of Karnataka: Rs.100/- 2) Universities outside Karnataka: Rs.500/- 3) Foreign students: Rs.5000/-										
2	Registration fee	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	---	Payable at the time of joining
3	Tuition fee per year	18,000.00	50,000.00	50,000.00	36,000.00	10,000.00	10,000.00	35,000.00*#	10,000.00	---	
4	Laboratory fee (per year)	500.00	500.00	500.00	400.00	400.00	300.00	300.00	300.00	---	} One time payment for the whole duration of the course at the time of joining.
5	Gymkhana & recreation fee (per year)	250.00	250.00	250.00	250.00	250.00	250.00	250.00	250.00	250.00	
6	Library fee (per year)	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	
7	Caution Money & Hostel Deposit	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00	Refundable on completion of course
8	Identification card fee	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	Payable at the time of joining
9	Examination fee										} As prescribed by the Institute
	Part I	---	3,000.00	1,000.00	3,000.00	1,500.00	1,000.00	1,000.00	1,000.00	325.00	
	Part II	---	10,000.00	5,000.00	---	1,500.00	1,000.00	1,000.00	1,000.00	---	
	Part III	---	---	---	---	---	---	1,000.00	1,000.00	---	
10	Pre-Ph.D. exam fee	2,000.00	---	---	---	---	---	---	---	---	
11	Ph.D. Thesis evaluation	10,000.00	---	---	---	---	---	---	---	---	

Fees once paid will not be refunded at any cost.

\*One time payment, ₹20,000/-# for SC/ST candidates (B.Sc. in Nursing). SNA ₹1000/- one time payment for B.Sc. Nursing students

\*\*Hostel Rent (water & electricity charges) per annum ₹5000/- and ₹1000/- mess advance for B.Sc. Nursing students

No Examination fee for PDF courses



## **FEE STRUCTURE FOR FOREIGN NATIONALS**

(All figures are in US \$)

Sl. No.	Name of the Course	* Tuition fee	Registration fee
1	Ph.D.	30000	500
2	For super speciality courses		
	a. DM/M.Ch. ( 5 years duration)	60000	1000
	b. DM/M.Ch. ( 3 years duration)	50000	1000
3	PDF in Neuropathology/Neuroanaesthesia	30000	1000
4	M.Phil.	20000	500
5	M.Sc. Psychiatric Nursing	15000	500
6	B.Sc. in Nursing	20000	
7	DPN/DNN/DCNT		100

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

The fees once paid will not be refunded at any cost

## **COURSES AND FACULTY**

### **NAME OF THE COURSE: Ph.D. IN THE DEPARTMENT OF BIOPHYSICS**

**Duration:** (i) 4 – 5 years for general candidates (ii) 3 – 4 years for candidates with M.Phil. degree in Biophysics.

**Programme of study:** Ph.D. course work, Pre Ph.D. examination and registration would be as per the Ph.D. regulation guidelines of the Institute.

**Infrastructure/Laboratory facilities for research:** The department has sophisticated research facilities to carry out research in neuroscience at the cellular and molecular level. The infrastructural facilities comprise of advanced techniques such as *in-vitro* fluorescence imaging (epifluorescence, single photon and multi-photon confocal imaging), absorbance and fluorescence spectroscopy and electrical recording system (patch clamp set-up). In addition the department has a well established cell culture facility. The department is well equipped with facilities for various biochemical (electrophoresis and blotting) and molecular biology techniques (PCR, RT-PCR, plasmid DNA isolation and purification and protein expression in mammalian system).

### **ACADEMIC FACULTY AND RESEARCH INTERESTS:**

**Dr.Preeti G.Joshi, Professor:** Cell signaling, purinergic receptors in the nervous system, mechanisms of neuron-glia communication and its deregulation in neurological and psychiatric disorders and neurodegeneration.

**Dr.V.K.Kalia, Professor:** Radiosensitization.

**Dr.Sudha Mishra, Associate Professor:** Glutamatergic receptors and downstream signaling, Modulation of protein expression and function in neurological disorders-ischemia.

### **NAME OF THE COURSE: Ph.D. IN THE DEPARTMENT OF BIOSTATISTICS**

**Duration:** 3 – 5 years

**Programme of study:** Development and application of biostatistics in the field of mental health and neurosciences.

**Specification fields:** Applied multivariate techniques, Survival analysis, Longitudinal methods, Epidemiological methods, Meta analysis, Genetic statistical methods.

**Research Facilities:** Rich data base, Good computational facilities and adequate library.

## **ACADEMIC FACULTY AND RESEARCH INTERESTS**

**Dr.D.K.Subbakrishna, Professor:** Applied multivariate analysis, Application of artificial neural networks in medicine, Survival analysis, Latent structure analysis.

**Dr.M.Venkataswamy Reddy, Additional Professor:** Epidemiological methods, Cluster analysis, Meta analysis, Applied multivariate analysis.

**Dr.K.Thennarasu, Additional Professor:** Applied multivariate analysis, statistical applications in genetics, Survival analysis, Qualitative data analysis, Latent variable modeling, Micro array data and Cluster analysis.

**Dr.P.Marimuthu, Associate Professor:** Clinical Trails, Simulation and projection for Cancer, Mental Health, HIV/AIDS problems.

### **NAME OF THE COURSE: Ph.D. IN CLINICAL NEUROSCIENCES**

Mode of Selection: Competitive written test to assess the basic knowledge and aptitude for research in interdisciplinary fields related to clinical neuroscience.

Duration of the Course: Five academic years

Programme of study: The course will consist of an initial training phase of two years followed by three years of research work. During first and second year, the candidates will undergo clinical postings and basic neuroscience training, respectively, in various fields as envisaged in the curriculum. The course will consist of theory/lectures followed by practical exposure to various techniques used in different disciplines. The candidates will be assessed periodically during these two years and are required to score a minimum of 80% credits for each year. At the beginning of the third year, a doctoral committee consisting of Guide, Joint Guide (if applicable) with two other experts in the area of research will be constituted for each candidate. This committee would be responsible to monitor the candidate's progress in his or her chosen area of research till the submission of the Ph.D. thesis.

**First Year:** The candidate has to work in the clinical side, actively participating in patient care and exploring avenues of interdisciplinary research, utilizing the patient material.

**Second Year:** During the second year the candidate would be posted to the various basic neuroscience departments and they would be provided "hands on training" in laboratory techniques.

**Third-Fifth Year:** Ph.D. Thesis work.

During the three-year period, the Ph.D. Thesis work will be undertaken by the candidate in a chosen area of research. The candidate will carry out research

work under the supervision of a faculty member, who will function as the guide. Depending on the nature of the topic, the candidate can also have a joint guide. For the purpose of carrying out Thesis work, the candidate will be posted to the concerned Department for a period of three years.

Evaluation: The evaluation is a continuous process based on assignments, seminar/Journal club presentations, clinical postings and laboratory training. Students will be evaluated at all postings by the clinicians and basic neuroscientists. Evaluation on daily basis and by credit system will be used. A ten-point grading scale with corresponding letter grades will be used. Attendance at all academic activities and clinical work is mandatory.

Ph.D. Registration: A minimum of 80% of credits clearance, separately in first and second year will be required for Ph.D. registration. The candidate has to submit a Ph.D. protocol for the registration from NIMHANS and should abide by the Ph.D. regulations of the Institute. The candidates are exempted from the pre-Ph.D. examination.

**NAME OF THE COURSE: Ph.D. IN THE DEPARTMENT OF CLINICAL PSYCHOLOGY**

**Duration:** 3 – 5 years

**Programme of study:** Training in theoretical and practical aspects of Mental Health and Clinical Psychology and in research methodology would be provided. Two years of supervised clinical internship in Mental Health and Clinical Psychology with special emphasis in areas related to the topic of research would also be provided.

Candidates with M.Phil. degree in Mental Health and Social Psychology/ M.Phil. degree in Clinical Psychology or equivalent qualification recognized by NIMHANS would be registered immediately after they join the department. However, candidates with Master's degree in Psychology would be provisionally registered upon joining the department. One year from the date of provisional registration the candidate should undertake the pre Ph.D. examination upon the successful completion of the Pre-Ph.D. examination, the registration would be confirmed.

After completion of a minimum of 3 years and upon satisfactory completion of proposed work, the candidates would be permitted to submit their thesis.

**ACADEMIC FACULTY AND RESEARCH INTERESTS**

**Dr.Shobini L. Rao, Professor:** Neuropsychology, Cognitive Neuroscience.

**Dr.Ahalya Raguram, Professor:** Psychosocial aspects of Mental Health, Family and marital therapies, Individual therapies.

**Dr.H.Uma, Professor:** Child & Adolescent therapies, parenting interventions.

**Dr.Anisha Shah, Professor:** Marital and Family Relationships and therapies, Emotion focused therapy, Gender in depression.

**Dr.Mahendra P.Sharma, Additional Professor:** Behavioural Medicine, Cognitive Behaviour Therapy, Cognitions and meta cognitions, Stress Management, Meditation and Psycho-oncology.

**Dr.L.N.Suman, Additional Professor:** Adult Mental Health; Psychosocial aspects of Substance Abuse, Forensic Psychology, Individual Psychotherapy.

**Dr.Seema Mehrotra, Additional Professor:** Positive psychology, Emotional regulation, Adaptation to major life events and Psycho-oncology.

**Dr.N.Jamuna, Associate Professor:** Neuropsychological Assessment and Rehabilitation, Paediatric Neuropsychology, Forensic Neuropsychology and Neuropsychiatric disorders.

**Dr.Paulomi M.Sudhir, Associate Professor:** Behavioural Medicine & Psychosocial factors in chronic medical illness. Cognitive behavioural processes and Cognitive behavioural therapies.

**Dr.J.Keshav Kumar, Associate Professor:** Neuropsychology, Cognitive Neuroscience, Cognitive Psychiatry and Neuropsychological Rehabilitation.

**Dr.Manoj Kumar Sharma, Associate Professor:** Tobacco cessation, Child, Adolescent, Adult Substance Abuse & Dependence – Neuropsychological aspects and Psychological Intervention.

**Dr.M.Manjula, Associate Professor:** Youth Mental Health, Process research in Cognitive Behaviour Therapies, Anxiety Disorders, Sexual Dysfunctions.

**Dr.Devvarta Kumar, Associate Professor:** Cognitive dysfunction in schizophrenia, memory and its falsification, meta-cognitive therapy in psychosis, psychological test development.

**Dr.Poornima Bholra, Associate Professor:** Psychotherapists' professional development and training, Psychotherapy processes, Consultation, liaison clinical psychology, Psychopathology among youth, Personality disorders and gender issues.

**Dr.B.N.Roopesh, Assistant Professor:** Child neuropsychology with emphasis on cognitive functions in pervasive developmental disorders, ADHD, SLD and other childhood mental disorders, Cognitive Rehabilitation for developmental disorders, Neuropsychological test, development for young children, Child and Adolescent mental health, Electrophysiology in emotional and behavioral problems of childhood.

**NAME OF THE COURSE: Ph.D. IN THE DEPARTMENT OF HUMAN GENETICS**

**Duration:** 3 – 5 years

**Programme of study:** Initially, the candidate will be provisionally registered for Ph.D. Before confirmation of registration, the candidate has 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 RESEARCH INTERESTS**

**Dr.K.R.Manjunatha, Professor:** Genetics of mental retardation, Genotoxicity, Human molecular cytogenetics. (upto December 2011)

**Dr.Rajalakshmi Gope, Professor:** Molecular biology of wound healing, Molecular genetics of human brain tumors.

**Dr.G.K.Chetan, Additional Professor:** Human genetics, Molecular cytogenetics, Genetic counseling, Genotoxicity, Genetics of MR and fragile X syndrome.

**RESEARCH INTERESTS**

Diagnosis of genetic disorders, DNA diagnosis of familial genetic disorders involving PCR, Southern and FISH related molecular techniques, Genotoxicity assays for a variety of chemicals, drugs and other related biological compounds and Genetic characterization of Brain Tumors.

**NAME OF THE COURSE: Ph.D. IN THE DEPARTMENT OF MENTAL HEALTH EDUCATION**

**Duration:** 3 – 5 years

**Programme 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, the candidate has 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.

#### **ACADEMIC FACULTY AND RESEARCH INTERESTS**

**Dr.Jayashree Ramakrishna, Professor:** HIV/AIDS, Qualitative research, Gender, Evaluation of health education interventions, stigma.

#### **NAME OF THE COURSE: Ph.D. IN THE DEPARTMENT OF NEUROCHEMISTRY**

**Duration:** 3 – 5 years

**Programme of study:** Initially, the candidate will be provisionally registered for Ph.D. Before confirmation of registration, the candidate has 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. 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:** Etiopathogenesis of cerebrovascular disease, Neurometabolic disorders, Immunochemical basis of neurodegenerative disorders, Molecular mechanisms of brain aging, neuromuscular disorders, primary brain tumors and cerebral malaria.

#### **ACADEMIC FACULTY AND RESEARCH INTERESTS**

**Dr.Rita Christopher, Professor:** Etiopathogenesis of cerebrovascular disease, Neurometabolic disorders.

**Dr.Sarada Subramanian, Additional Professor:** Immunotherapeutic approaches to Alzheimer's disease and related conformational disorders.

**Dr.M.M.Srinivas Bharath, Associate Professor:** Molecular mechanisms in brain aging, Parkinson's disease, Neuromuscular disorders and Neurotrauma.

**Dr.D.N.Nanda Kumar, Assistant Professor:** Molecular Mechanisms of Primary brain tumors with emphasis on invasion of glioblastoma and its therapeutic targets.

#### **NAME OF THE COURSE: Ph.D. IN THE DEPARTMENT OF NEUROMICROBIOLOGY**

**Duration:** 3 – 5 years

**Programme of study:** Initially, the candidate will be provisionally registered for Ph.D. Before confirmation of registration the candidate has 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.

**Field of Interests:** Diagnosis of neuro infections with special reference to Neurotuberculosis and Neurocysticercosis, autoimmune diseases of the central nervous system. Molecular typing of microbes associated with central nervous system infections and molecular diagnosis of central nervous system infections.

### **ACADEMIC FACULTY AND RESEARCH INTERESTS**

**Dr.R.Ravikumar, Professor:** Opportunistic bacterial, Parasitic, Fungal and Protozoal infections like Tuberculosis, Toxoplasmosis, Amoebic encephalitis and other neuroinfections in immunocompromised individuals.

**Dr.Shripad A.Patil, Additional Professor:** 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.

**Dr.S.Nagarathna, Additional Professor:** CSF cell analysis, cytological studies and bacterial isolation in pyogenic infections of the brain. Delineating cryptococcal meningitis in AIDS patients with clinical correlation; a study of mortality and morbidity. Rapid modes of isolation of M.tuberculosis – PCR, Bactec.

**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.

### **NAME OF THE COURSE: Ph.D. IN THE DEPARTMENT OF NEUROPATHOLOGY**

**Duration:** 3 – 5 years

**Programme of study:** Initially the candidates will be provisionally registered for Ph.D. Before confirmation of the registration, the candidate has to complete pre - Ph.D. examination after one year from the date of provisional registration. The candidate would be trained in both theory and practical aspects of the curriculum pertaining to the discipline. Later, the candidate would pursue and register for Ph.D. by research and submit the thesis for the award of Doctoral Degree.



**Research Facilities:** Well established Histopathology Laboratory for processing Muscle, Peripheral Nerve, Brain, Spinal cord of human and animal origin with special stains and Immunohistochemistry. Transmission electron Microscope with facility for 3-D reconstruction of the image, Human Brain tissue Repository for Neurobiological Studies (Human Brain Bank) – a National Research Facility, Transfusion Medicine Centre and a Diagnostic Molecular Pathology Laboratory. Clinical Autopsies are regularly carried out for establishing the cause of death and progression of the disease.

**NAME OF THE COURSE: Ph.D. IN THE DEPARTMENT OF NEUROPHYSIOLOGY**

**Duration:** 3 – 5 years

**Programme of study:** Initially the candidates will be provisionally registered for Ph.D. Before confirmation of the registration, the candidate has to complete pre - Ph.D. examination. The candidate would be trained in both theory 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.

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

- 1) Neurophysiology of Yoga
- 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 neurone disease
- 8) Neurobiology of stress, depression 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

**ACADEMIC FACULTY AND RESEARCH INTERESTS**

**Dr.T.R.Raju, Senior Professor:** Animal model of motor neurone disease, Trophic factors, CNS regeneration and role of stem cells, Neuronal plasticity.

**Dr.Bindu M.Kutty, Professor:** Role of subiculum in spatial learning and memory functions, Strategies of environmental stimulation and transplantation in

establishing functional recovery, Neurobiology of sleep, Human EEG and ERP studies.

**Dr.T.N.Sathyaprabha, Additional Professor:** Autonomic and pulmonary functions in neuropsychiatric disorders, Neurophysiology of yoga, Neurobiology of motor neuron disease.

**Dr.B.S.Shankaranarayana Rao, Additional Professor:** Cellular and molecular mechanisms of learning and memory, Amelioration of stress 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, Associate Professor:** The 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.

**NAME OF THE COURSE: Ph.D. IN THE DEPARTMENT OF NEUROVIROLOGY**

**Duration:** 3 – 5 years

**Programme of study:** Initially, the candidate will be provisionally registered for Ph.D. Before confirmation of registration the candidate has 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.

**ACADEMIC FACULTY AND RESEARCH INTERESTS**

**Dr.V.Ravi, Professor:** HIV diagnosis, development of kits, antiretroviral therapy. Japanese encephalitis.

**Dr.S.N.Madhusudana, Professor:** Rabies development of diagnostic kits, clinical trails on intradermal vaccines with cell culture vaccines, development of plant based vaccines for rabies, development of monoclonal antibodies for rabies.

**Dr.Anita S.Desai, Additional Professor:** Laboratory diagnosis of viral infections of the nervous system, molecular virology of neurotropic viruses to understand pathogenesis.

**Dr.Reeta Subramaniam Mani, Assistant Professor:**

**NAME OF THE COURSE: Ph.D. IN THE DEPARTMENT OF NURSING**

**Duration:** 3 – 5 years

**Programme 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. The candidate will 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 the award of Ph.D.

**Research facilities:** The department of Nursing has all the infrastructure for the 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. Counselling 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. The faculty members guide the research activities of the students in nursing.

**ACADEMIC FACULTY AND RESEARCH INTERESTS**

**Dr.K.Reddemma, Senior Professor:** Job oriented stress, Job satisfaction, Manpower requirement, Time-motion study, Rehabilitation.

**Dr.K.Lalitha, Professor:** Mental health counseling and disaster intervention. Developing empathy skills in nursing personnel, School mental health programmes, Stress management programmes.

**Dr.Nagarajiah, Additional Professor:** Non-pharmacological management of individuals suffering from Neurotic disorders, domiciliary care for neuro-psychiatric clients, family level interventions in the management of schizophrenia, School Mental Health.

**Dr.Ramachandra, Associate Professor:** Electro-convulsive therapy, Substance Abuse related problems, Rehabilitation, HIV & Mental Health.

**Dr.Sailaxmi Gandhi, Assistant Professor:** Occupational Stress, Stress Management programmes, School Mental Health, Child & Adolescent Psychiatric Nursing and Psychiatric Rehabilitation.

**NAME OF THE COURSE: Ph.D. IN THE DEPARTMENT OF PSYCHIATRIC SOCIAL WORK**

**Duration:** 3 – 5 years

**Programme of study:** A candidate who has obtained MSW and/or M.Phil. in Psychiatric Social Work degree 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 a duration of 3 years. The candidate has to complete Pre -Ph.D. examination after one year from the date of provisional registration.

**ACADEMIC FACULTY AND RESEARCH INTERESTS**

**Dr.R.Parthasarathy, Professor:** Student Mental Health and Family Mental Health.

**Dr.K.Sekar, Professor:** Community Mental Health, Disaster, Psychosocial Support and Mental Health Care.

**Dr.D.Muralidhar, Professor:** Alcoholism, Chronic mentally ill and Psychosocial Interventions for Mental disorders.

**Dr.N.Krishna Reddy, Additional Professor:** Psychiatric Social Work Interventions in Neurosurgery.

**Dr.Prakashi Rajaram, Additional Professor:** Psychiatric Social Work Intervention in Neurology and Women issues.

**Dr.V.Indiramma, Associate Professor:** Psychiatric Social Work aspects of Child Mental Health.

**Dr.R.Dhanasekara Pandian, Associate Professor:** De-addiction Community Care, Counselling and Allied training programme.

**Dr.A.Thirumoorthy, Associate Professor:** Counselling, Psychiatric Social Work in General Health Care.

**Dr.Md. Ameer Hamza, Associate Professor:** Group work with schizophrenia and alcohol and substance abuse.

**Dr.B.P.Nirmala, Assistant Professor:** Neuro Psychiatric Rehabilitation, Correctional social work.

**Dr.N.Janardhana, Assistant Professor:** Community based Rehabilitation and Training program

**NAME OF THE COURSE: Ph.D. IN THE DEPARTMENT OF PSYCHIATRY**

**NAME OF THE COURSE: Ph.D. IN THE DEPARTMENT OF PSYCHOPHARMACOLOGY**

**Duration:** 3 – 5 years

**Programme of Study:**

1. Theoretical applied aspects of fundamental systemic neurosciences and Molecular psychopharmacology.
2. Clinical Psychopharmacology.
3. Experimental psychopharmacology.

**Fields of investigation:**

1. Molecular modeling and computational biology
2. Computational neuroscience involving nonlinear complex systems structure and dynamics.
3. Synchronization and coherence in neural systems.
4. Theoretical cognitive neuroscience.
5. Electroconvulsive therapy and psychopharmacology (using herbal or allopathic medications) in rodent models of anxiety, depression, locomotor activity and learning and memory.
6. Investigation of behavioral, neuropsychological, and other effects of medications in psychiatric disorders.
7. Psychosocial aspects of medication in psychiatric disorders.

**Research facilities:** Advanced computing and modeling environment (SGI ONYX 3200 Server, DEC Alpha 4100 Server Pentium 4 Fedora Linux Servers. MATLAB, MATHEMATICA, facilities of biomedical signal processing, image processing. Facilities for clinical and animal research, computerized ECT technology, instruments for the evaluation of the animal models listed above.

## **ACADEMIC FACULTY AND RESEARCH INTERESTS**

**Dr.N.Pradhan, Senior Professor:** Nonlinear dynamics, Complex systems, Molecular modelling, Behavioural psychopharmacology, Indigenous drug development.

**Dr.Chittaranjan Andrade, Professor:** Electroconvulsive Therapy, Drug trials, Herbal medicines.

### **NAME OF THE COURSE: Ph.D. IN THE DEPARTMENT OF SPEECH PATHOLOGY & AUDIOLOGY**

**Programme of study:** After selecting the candidate through Entrance test and counseling, the candidate will be provisionally registered for Ph.D. For confirmation of registration, the candidate has to complete the pre-Ph.D. examination conducted after one year from the date of provisional registration. The candidate would be trained on theoretical and practical aspects of the doctoral course work and will also be trained on clinical evaluation and management of patients with particular emphasis in the area of the candidate's research topic. Following the satisfactory completion of the doctoral work and approval of the synopsis, the candidate shall submit the full thesis.

**Research Facilities:** Full fledged speech pathology and audiology laboratory. Multidisciplinary interaction. Excellent clinical material in the area of neuropsychiatric communication disorders.

## **ACADEMIC FACULTY AND RESEARCH INTERESTS**

**Dr.M.Jayaram, Professor:** Neurogenic communication disorders, Stuttering, voice disorders, Speech perception and production, Instrumentation.

**Dr.N.Shivashankar, Professor:** Clinical neuroaudiology, Central auditory processing disorders, Adult and childhood speech-language disorders.

### **NAME OF THE COURSE: DM IN NEUROLOGY**

**Duration:** For candidates with MBBS qualification the duration of the course will be for a period of five years. For candidates with MD/DNB in General Medicine or Pediatrics, the duration of the course will be for a period of three years.

**Clinical & Research Facility:** Department of Neurology has experienced faculty with varied research interest and offers research facilities in the areas of diagnosis and management of various neurological disorders. This is backed by well developed Electrodiagnostic Laboratory with facilities for EEG, Electroneuromyography, Evoked potentials, Long term Video EEG, Transcranial magnetic stimulation, Sleep laboratory, Doppler ultra sonography and Autonomic

nervous system laboratory. In addition, the department has specialized stroke unit, neuro critical care and exclusive neuro infection wards. A well developed neurorehabilitation facility is also available apart from acute and chronic care neurology.

### **ACADEMIC FACULTY AND RESEARCH INTERESTS**

**Dr.P.Satishchandra, Professor & Director / Vice-Chancellor:** Epilepsy, Neuroepidemiology, Neuroinfections, Neuro-AIDS, Epilepsy and genetics, Electroencephalography and evoked potentials.

**Dr.D.Nagaraja, Senior Professor:** Cerebrovascular diseases, Behaviour and cognitive neurology, Cerebral venous sinus thrombosis, Headache, Multiple sclerosis.

**Dr.A.B.Taly, Professor:** Neurological disabilities and rehabilitation, Neuromuscular disorders, Sleep and alternative medicine.

**Dr.M.Veerendra Kumar, Professor:** Neurocysticercosis, Clinical Electrophysiology, Advanced EMG.

**Dr.S.R.Chandra, Professor:** Cognitive and behavioural sciences and dementia.

**Dr.A.Nalini, Additional Professor:** Motor neurone disease, Neuro Muscular disorders.

**Dr.Pramod Kumar Pal, Additional Professor:** Transcranial magnetic stimulation and motor physiology, Parkinson's disease and other movement disorders, Ataxias.

**Dr.Sanjib Sinha, Additional Professor:** Epilepsy, Wilson's disease, Sleep.

**Dr.P.S.Bindu, Associate Professor:** Pediatric neurology, Neurometabolic disorders, Leukodystrophies and Dysmorphic syndromes

**Dr.Girish B.Kulkarni, Associate Professor:** Immune mediated neuropathies, Headache, Neuroepidemiology.

**Dr.Ravi Yadav, Assistant Professor:** Parkinsonism and related disorders, headache, neurocritical care.

**Dr.Netravathi.M, Assistant Professor:**

**Dr.Madhu.N, Assistant Professor (Ad-hoc)**

**NAME OF THE COURSE: DM IN NEURORADIOLOGY**

**Duration:** 3 years

**Research Facilities:** Spiral CT Scanner, 1.5 Tesla MRI Scanner with facilities for EPI studies, MR Angiography Perfusion, Proton and Phosphorous spectroscopy and functional MRI, Digital Substraction Angiographic facility for interventional management of neurovascular disorders including 3D CT Angiography and Virtual Angiographic endoscopy, 3 Tesla MRI system with functional imaging and Tractography and 16 slice CT Scanner.

**ACADEMIC FACULTY AND RESEARCH INTERESTS**

**Dr.Hima Shriniwas Pendharkar, Associate Professor:**

**Dr.Dawn Thomas K.Puthumana, Assistant 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.

**Dr.Aravinda.H.R, Assistant 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, Assistant Professor:** Diagnostic neuroimaging, Perfusion imaging in neurological disorders, Imaging of Neuroinfections and cerebrovascular disorders

**Dr.Chandrajit Prasad, Assistant 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 Bhatt, Assistant Professor:**

**NAME OF THE COURSE: M.CH. IN NEUROSURGERY**

**Duration:** (i) The duration of the course will be five years for candidates with MBBS Qualification.  
(ii) The duration of the course will be three years for candidates with MS/DNB in General Surgery.

**Training facilities:** The Department of Neurosurgery offers comprehensive training in all aspects of this developing field. It has an advanced OT complex equipped with most modern microscopes, endoscopes, neuronavigation etc.



It also has a stereotaxy and Gammaknife radiosurgery unit, the first of its kind in South India. It manages a specialized head and spine trauma center with excellent facilities. In addition to this, the department has ongoing clinical and experimental research in basic and applied Neurosciences namely Head Injury, Glioma, Cerebral ischemia, Subarachnoid Haemorrhage, Peripheral Nerve and allo grafts and spinal dysraphism.

The Training includes:

1. Basic Neurosurgery, to be able to perform Neurosurgical procedures under supervision under assistance and independently.
2. Clerking the patients both in and outpatients and casualty.
3. Neurology and Neuroradiology and Neuropathology posting and training. In addition the Post MBBS candidates will undergo one year General Surgery training at the General Hospitals attached to Bangalore Medical College.

## **ACADEMIC FACULTY AND RESEARCH INTERESTS**

**Dr.R.M.Varma, Emeritus Professor:**

**Dr.B.Indira Devi, Professor:** Surgery for Craniovertebral junction anomalies, Peripheral nerve repairs, Spinal dysraphism, Neurorehabilitation, Surgery for gliomas General Neurosurgery. Clinical and basic research on peripheral nerve, spinal dysraphism, sub arachnoid haemorrhage and cerebral ischemia, cortical plasticity and functional MRI.

**Dr.S.Sampath, Professor:** Spinal trauma, Instrumentation and stabilization procedures, Endoscopic neurosurgery, Cerebro vascular surgery, Surgery for suprasellar lesions, Gamma Knife Radiosurgery.

**Dr.Paritosh Pandey, Associate Professor:** Neuro trauma, Stereotactic clinical research in glioma, Cranial infection.

**Dr.Dhananjay I Bhat, Associate Professor:** Cerebro vascular surgery, Peripheral nerve injuries, Craniovertebral and spine fusions, Clinical and Basic research on Peripheral nerve and sub arachnoid haemorrhage.

**Dr.Dwarakanath Srinivas, Associate Professor:** Functional and minimally invasive surgery, Skull base surgery, Paediatric neurosurgery.

**Dr.Dhaval P.Shukla, Associate Professor:** Paediatric neurosurgery, aesthetic and reconstructive neurosurgery, basic and clinical research on autonomic nervous system, clinical and basic research on head injuries, peripheral nerve surgery.

**Dr.Arivazhagan, Assistant Professor:** Functional and minimally invasive surgery, Skull base surgery, Endoscopic surgery.

**Dr.Nupur Pruthi, Assistant Professor:** Surgery for spine and Gliomas, Clinical and basic research on Head Injuries and peripheral nerves.

**Dr.Jagath Lal.G, Assistant Professor:** Glioma surgery and research, Neurotrauma and Neuro re-habilitation, Gammaknife radiosurgery, Stereotaxy for tumours.

**Dr.Manish Ranjan, Assistant Professor:** Spine, Surgery for glioma and research, Gammaknife radiosurgery.

**Dr.K.V.L.Narasinga Rao, Assistant Professor:** Spine surgery, Meningioma and Glioma surgery.

**Dr.A.S.Ramesh, Assistant Professor:**

**Dr.V.Vikas, Assistant Professor:**

### **DEPARTMENT OF CHILD & ADOLESCENT PSYCHIATRY**

Child and Adolescent Psychiatry services at NIMHANS were started in the 1950s with 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.

Department of child & Adolescent Psychiatry was formed on 30.12.2010. It is the first department of its kind in India.

Clinical Services: the Department offers clinical services for Developmental disorders (Autism, Mental retardation, Specific Learning Disorders (dyslexia) and Mental health disorders like ADHD, Mood disorders, OCD, Emotional and behavioral problems, Substance abuse, Psychosis, Anxiety disorders etc. The department serves as a major tertiary care referral center for India and countries like Sri Lanka, Maldives, Bangladesh etc. the out-patient facility functions on all days except Wednesday. There is a 40 bedded in-patient facility (Child Psychiatry Centre) with 30 general and 10 special beds. Clinical service inputs are multi-disciplinary in nature and provided in liaison with departments of Clinical Psychology, Psychiatric Social work, Speech Pathology & Audiology, Neurochemistry, DP&NR, Neurology etc.

Training: The Department offers training to several MD/DPM/DNB/DM residents from within NIMHANS and from Institutions all over India. Trainees from outside institution may be from the department of Psychiatry, Pediatrics, Neurology, Psychology, Social Work. They stay as observers for a duration ranging from 2 weeks to 3 months or more. Apart from these, consultants (Psychiatry/Pediatrics) from outside NIMHANS (both Govt. and Pvt. Sectors) hone their skills in child and adolescent mental health at NIMHANS. Several

international trainees and consultants, especially from South Asia, avail the opportunity to observe and train with us in child and adolescent mental health. Further a three month orientation programme starting in the months of February, May, August and November of each year in child and Adolescent Psychiatry is offered by the Department.

Research activities: Faculty have been actively involved in several research activities. Ongoing research projects include: projects on autism spectrum disorder, X-linked Mental retardation, Molecular genetics of primary microcephaly, Ayush-Manas project etc.

**NAME OF THE COURSE: (1) DM IN DOCTORAL FELLOWSHIP IN CHILD & ADOLESCENT PSYCHIATRY**

**Duration:** 3 years

**NAME OF THE COURSE: (2) POST DOCTORAL FELLOWSHIP IN CHILD & ADOLESCENT PSYCHIATRY**

**Duration:** 1 year

**ACADEMIC FACULTY AND RESEARCH INTERESTS**

**Dr.Shoba Srinath, Professor:** Mood Disorders, Autism Spectrum Disorder, Obsessive compulsive disorders and Epidemiology.

**Dr.Satish Chandra Girimaji, Professor:** Mental Retardation, Syndromology, Clinical Child & Adolescent Psychiatry.

**Dr.Shekhar P. Seshadri, Professor:** 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 Programmes.

**Dr.John Vijay Sagar, Associate Professor:** Specific Learning disorder, Autism Spectrum disorder, Psychopharmacology, Attention deficit hyperactivity disorder, Consultation – Liaison in CAP

**DEPARTMENT OF PSYCHIATRY**

The Department of Psychiatry, NIMHANS is one of the largest in South East Asia with 27 faculty members, 17 senior residents and 68 post graduate trainees.

## **A: Services**

Clinical work in the department is through Outpatient Clinics and Inpatient Services. The General Outpatient runs 6 days a week with both evaluation and follow up services each day. **THERE ARE SPECIAL CLINICS.**

Child and Adolescent Psychiatry including Mental Retardation	- Monday, Tuesday, Thursday, Friday, Saturday (AM)
De-Addiction Clinic	- Monday, Saturday (AM)
Tobacco Cessation Clinic	- Monday, Saturday (AM)
OCD Clinic	- Tuesday (PM)
Metabolic Clinic in Psychiatry	- Wednesday (AM)
Schizophrenia Clinic	- Wednesday (AM)
Perinatal Clinic	- Friday (PM)
Old Age Psychiatry	- Saturday (PM)

The Department has a large inpatient set up with 550 beds including separate Child & Adolescent Psychiatry services, De-addiction Services, Family Psychiatric Center and Psychiatric Rehabilitation Day Care Centre.

The Department has comprehensive psychiatry rehabilitation services. This provides day care, vocational training and psychiatric rehabilitation.

The Department also runs the Community Mental Health Services for the last three decades. The facility provides community based mental health services in 6 districts of Karnataka in addition to supporting several more districts.

## **B. Training**

Under the aegis of NIMHANS Deemed University the Department of Psychiatry is involved in training in a continuous manner under MD, DPM, Ph.D. in Psychiatry and Post Doctoral Fellowship in Child & Adolescent Psychiatry courses.

### **NAME OF THE COURSE: (1) MD IN PSYCHIATRY**

**Duration:** 3 years after MBBS/2 years after DPM.

### **NAME OF THE COURSE: (2) DIPLOMA IN PSYCHIATRY (DPM)**

**Duration:** 2 years

**Research facilities:** As given under MD Psychiatry

The department is active in the training of professionals from other disciplines in the Institute and from other parts of India and SAARC region. Other training activities of the department include

1. PHC doctors under the National Mental Health Program.
2. Certificate courses in Family Psychiatry, Child Psychiatry and Substance Abuse
3. Regular de-addiction training for both medical and non-medical health professionals
4. One week training program in students Counseling for college teachers
5. Regular workshops for teachers of secondary schools, Community Level Workers, volunteers, NGOs on School Mental Health using Life Skills Education for adolescents
6. There are periodic training workshops on diverse topics like Communication Skills, Grief & Bereavement, Clinical Audits, Psychooncology, Chronic pain and Palliative care.
7. Monthly workshops on Assessment and Management of Chronic Pain

Newer training methods related to Medical Teaching like Objective Structure Clinical Examination (OSCE), problem based learning, role play and Small Group Activities are being conducted on a regular basis.

### **C. Research Activities**

The faculty of the department have diverse research interests. They include Clinical Psychiatry, Investigative Aspects of various psychiatric conditions – Neuro-imaging, Molecular Genetics, Electro-physiology and Interventions including Electro Convulsive Therapy, Yoga, Psychotherapy and Transcranial Magnetic Stimulation. There is active research work in special areas like Child Mental Health, Old Age Psychiatry, Women's Mental Health, Substance Abuse, Consultation Liaison Psychiatry, Neuropsychiatry and Community Mental Health. The department has liaison with other research centers nationally (example NCBS, SVYASA) and internationally.

The department works in collaboration and has consultation liaison towards clinical services with other departments of the institute – Neurology, Mental Health and Social Psychology, Psychiatric Social Work, Psychiatric Nursing, Psychopharmacology, Neurochemistry, Neuropathology, Neurophysiology, Neurovirology, Epidemiology, Neurological Rehabilitation etc.

### **ACADEMIC FACULTY AND RESEARCH INTERESTS**

**Dr.R.S.Pandey, Professor:** Biological Psychiatry and Mind Body Medicine.

**Dr.C.R.Chandrashekar, Senior Professor:** Cultural issues, Somatisation, Legal and Community Psychiatry, Mental Health Education.

**Dr.B.N.Gangadhar, Professor:** Schizophrenia, Electro Convulsive Therapy, Yoga & Complimentary Medicine, Community Mental Health.

**Dr.S.K.Chaturvedi, Professor:** Cancer and Mental Health, Chronic Pain Psychosomatics, Quality of Life & Consultation – Liaison Psychiatry.

**Dr.Sanjeev Jain, Professor:** Genetics of Psychiatric disorders, History of Psychiatry, Phenomenology, Biological Psychiatry.

**Dr.Mathew Varghese, Professor:** Family Issues and Mental Health, Geriatric Psychiatry.

**Dr.Prabha S.Chandra, Professor:** HIV and mental health, Women and mental health.

**Dr.Pratima Murthy, Professor:** Substance Abuse, History of Psychiatry, Psychiatric Training, Neuropsychiatry.

**Dr.Srikala Bharath, Professor:** Old Age Psychiatry, School Mental Health using Life Skills Education, Children at risk, Disaster and Mental Health.

**Dr.Y.C.Janardhan Reddy, Professor:** Obsessive Compulsive Disorders, Anxiety Disorders and Bipolar disorder.

**Dr.Vivek Benegal, Professor (De-Addiction Unit):** Substance abuse related disorders, Neurobiology and genetics of addiction.

**Dr.Jagadisha, Additional Professor:** Schizophrenia, Somatic therapies (ECT, rTMS, Yoga).

**Dr.John P.John, Additional Professor:** Phenomenology, Nosology and Neurobiology EEG, Structural and Functional MRI, Neuropathology, Neuropsychology, Molecular Genetics of Schizophrenia.

**Dr.Manjula Devi, Associate Professor:** Music Therapy, Community Psychiatry – conducting Mental Health camps.

**Dr.B.M.Suresh, Associate Professor:** Obsessive compulsive disorder: Genetics, Forensic Psychiatry & Community Psychiatry.

**Dr.G.Venkatasubramanian, Associate 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.Geetha Desai, Associate Professor:** Women's Mental Health, Consultation Liaison Psychiatry, Adolescent Psychiatry, Chronic Pain.

**Dr.Shivrama Varambally, Associate Professor:** Early onset psychosis and Schizophrenia, Neurological Signs in Schizophrenia, Yoga in Psychiatry, Electro Convulsive Therapy.

**Dr.Prabhat Kumar Chand, Associate Professor:** Substance/Drug abuse related disorders, Bipolar disorder and dual diagnosis.

**Dr.P.T.Sivakumar, Associate Professor:** Geriatric Psychiatry, Metabolic Disorder in Psychiatry, Psychiatric Rehabilitation.

**Dr.Muralidharan.K, Associate Professor:** Vulnerability to Alcoholism and Substance use disorders, Treatment of substance use disorders, Transcranial Magnetic Stimulation, Electro-Convulsive therapy.

**Dr.Harish.T, Assistant Professor:** Electro Convulsive Therapy, Acute Psychosis.

**Dr.V.Senthil Kumar Reddi, Assistant Professor:**

**Dr.C.Naveen Kumar, Assistant Professor:**

**Dr.A.Shyam Sundar, Assistant Professor:**

**NAME OF THE COURSE: DM IN NEUROANAESTHESIA**

**Duration:** 3 years

**NAME OF THE COURSE: POST DOCTORAL FELLOWSHIP IN NEUROANAESTHESIA**

**Duration:** 1 year

**Programme of study:** The course envisages to train the candidates in the following areas:

- (a) Basic sciences related to neuroanaesthesia
- (ii) Clinical neuroanaesthesia for neurosurgery
- (iii) Anaesthesia 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 anaesthesia 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 and respiratory monitoring facilities including pulmonary function testing and cerebral monitoring including Transcranial Doppler & BIS which may be used for clinical research. Other facilities include blood gas analysis and anaesthetic agent monitoring. In collaboration with other clinical departments, it is possible to study Intracranial pressure.

### **ACADEMIC FACULTY AND RESEARCH INTERESTS**

**Dr.G.S.Umamaheswara Rao, Senior Professor:** Intensive care, Head injury, mechanical ventilation, Cerebral blood flow studies.

**Dr.V.Bhadrinarayan, Professor:** Head injury, Intensive care.

**Dr.T.S.Devaragudi, Additional Professor:** Infections in intensive care units, Intraoperative haemodilution.

**Dr.K.R.Madhusudan Reddy, Additional Professor:** Neuroendoscopy, Studies in intraoperative ICP measurement.

**Dr.V.J.Ramesh, Additional Professor:** Outcome in intensive care, Mechanical ventilation.

**Dr.M.Radhakrishnan, Associate Professor:** Clinical investigation in Neuroanaesthesia.

**Dr.Sriganesh, Assistant Professor:**

**Dr.Sonia Bansal, Assistant Professor (Adhoc):**

### **NAME OF THE COURSE: POST DOCTORAL FELLOWSHIP IN NEUROINFECTIONS**

**Duration:** 1 year

**Course of Study and work:** The Fellowship program shall be conducted at NIMHANS and such other centers 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.

**ACADEMIC FACULTY AND RESEARCH INTERESTS:** (Please refer page 34)

**NAME OF THE COURSE: POST DOCTORAL FELLOWSHIP IN NEUROLOGY**

**a) EPILEPSY**

**b) MOVEMENT DISORDERS**

**Duration:** 1 year

**FACILITY:** Clinical and Research Opportunity

**ACADEMIC FACULTY AND RESEARCH INTERESTS:** (Please refer page 39)

**NAME OF THE COURSE: POST DOCTORAL FELLOWSHIP IN NEUROPATHOLOGY**

**Duration:** 1 year

**Programme of Study:** To train diagnostic Neuropathologist. Training offered to Postgraduate in Pathology (Medical only).

**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, Neuro-oncology and Neuromuscular research laboratory facilities.

**ACADEMIC FACULTY AND RESEARCH INTERESTS**

**Dr.S.K.Shankar, Senior Professor:** Neuropathology of Viral Infections (with special reference to HIV/AIDS, CJD, Rabies), Neurodegenerative diseases, Pathology of Epilepsy.

**Dr.Vani Santosh, Professor:** Neuro Oncology Research, Developmental Neuro Pathology.

**Dr.T.C.Yasha, Professor:** Pathology of Peripheral Nerves, Neurodegenerative diseases, Pathology of Neurometabolic disorders.

**Dr.Sundar Periyavan, Additional Professor of Transfusion Medicine:** Transfusion Medicine, Immunohematology and Therapeutic apheresis.

**Dr.N.Gayathri, Additional Professor:** Neuro Muscular diseases, Neuro Metabolic Disorders and Ultrastructural Pathology.

**Dr.B.K.Chandrasekhar Sagar, Associate Professor in Electron Microscopy:** Ultrastructural Neurobiology, Developmental Neurobiology and Ultrastructural Pathology.

**Dr.Anita Mahadevan, Assistant Professor:** Pathology of Neuroinfections (AIDS/CJD/Rabies, etc.), Pathology of Peripheral Nerves, Brain Banking.

**NAME OF THE COURSE: M.PHIL. IN BIOPHYSICS**

**Duration:** 2 years

**Programme 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, neurobiophysics, biophysical techniques, bioenergetics, 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 RESEARCH INTERESTS:** (Please refer page 26)

**NAME OF THE COURSE: M.PHIL. IN CLINICAL PSYCHOLOGY**

**Duration:** 2 years

The Department of Clinical Psychology is the first department to start a teaching programme in the field of Clinical Psychology in the country. The Diploma in Medical Psychology was started in the year 1955. The M.Phil. course in Clinical Psychology aims to generate highly skilled and competent human resources for delivering clinical psychology services as well as undertaking research. The course gives a comprehensive coverage of (1) Psychodiagnostic assessment (2) Counseling and psychotherapy (3) Family & Martial therapies (4) Behaviour Medicine and Cognitive Behaviour therapy (5) Child and Adolescent Mental Health (6) Management of Substance Abuse (7) Psychosocial Rehabilitation & (8) Neuropsychology. The didactic lectures, clinical teaching through case conferences and topic discussions are held regularly. Seminars and Journal clubs provide additional input. Candidates are required to carry out a research project on topics of clinical relevance to gain an orientation to research methods. Candidates work under supervision, with adult and child populations with a range of psychiatric and neurological problems, thereby gaining clinical expertise.

**ACADEMIC FACULTY AND RESEARCH INTERESTS:** See under Ph.D. in Clinical Psychology (page 28).

**NAME OF THE COURSE: M.PHIL. IN NEUROPHYSIOLOGY**

**Duration:** 2 years

**Programme of study:** The course consists of lectures, seminars, laboratory work and dissertation. The course aims at training students to acquire a comprehensive knowledge of Neurophysiology from the organism to the cellular level. The areas to be 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 take active participation 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 experience in experimental skills, which will be achieved by regular participation in practicals.

The candidates will carry out specific research project, which will be presented in the form of a dissertation.

**Research Facilities:** Research facilities to carryout dissertation work are available in the department. It has well equipped laboratories to carry out research in cellular neurophysiology, synaptic physiology, behavioral neurobiology, learning and memory, neuroanatomy, growth and differentiation of CNS, regeneration and degeneration, brain chemistry, neurobiology of stress, depression and brain stimulation reward, Stem cells and neurogenesis, neurobiology of motor neuron disease, neuronal plasticity, Autonomic and pulmonary functions etc.

The laboratory facilities include electrophysiology, neuromorphology, psychophysiology, neuronal culture and biochemistry to investigate the functioning of nervous system through electrophysiological, morphological, behavioral and biochemical approaches.

**ACADEMIC FACULTY AND RESEARCH INTERESTS:** See under Ph.D. in Neurophysiology (page 33)

**NAME OF THE COURSE: M.PHIL. IN NEUROSCIENCES**

**Duration:** 2 years

**Programme 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 consisting of five faculty members nominated by the Director/Vice-Chancellor, NIMHANS from the participating departments. The current members of the course committee are:

**Dr.Preeti G.Joshi, Professor & Head of the Department of Biophysics -**  
Chairperson

**Dr.S.K.Chaturvedi, Professor of the Department of Psychiatry -** Member

**Dr.A.B.Taly, , Professor of the Department of Neurology -** Member

**Dr.Vani Santosh, Professor & HOD of the Department of Neuropathology -**  
Member

**Dr.Rita Christopher, Professor & HOD of the Department of Neurochemistry**  
- Member

**Dr.Bindu M.Kutty, Professor & HOD of the Department of Neurophysiology**  
- Member

**NAME OF THE COURSE: M.PHIL. IN PSYCHIATRIC SOCIAL WORK**

**Duration:** 2 years

**Programme of Study:** In two years programme, 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. In the first year strong grounding is made for advanced theoretical aspects of Psychiatric Social Work, Psychosocial Perspectives on Mental Health and Psychiatric Social Work Research and Statistics. The candidates are required to submit 5 Case Re cords based on their psychosocial interventions with clients and family members.

Likewise in the II Year, the candidates are given a strong theoretical base with regard to social issues in mental health, Psychiatric Social Work interventions and Psychiatry, including common neurological problems. At the end of the II Year, they have to submit Dissertation using explorative-descriptive, experimental-evaluative research studies related to Psychiatric Social Work. In all these activities the candidates are given adequate supervision and guidance by the faculty and staff members. A variety of participatory methods are made use of in imparting training to the candidates in the two years programme.

**Research facilities:** Research facilities are available. The candidate will complete research work through partial fulfillment during Part II of the programme. Eligible candidates are encouraged to register for Ph.D. The department has faculty and Staff members who have cultivated special interests in fields like Marriage and Family, Theoretical Framework, Marriage and Family Intervention techniques, Psychosocial Rehabilitation, Community based mental health activities, Alcohol and drug abuse, Social Work interventions in Neurology and Neurosurgery and Collaboration with educational, correctional and industrial organizations. 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.

**ACADEMIC FACULTY AND RESEARCH INTERESTS:** Please refer (page 36)

**NAME OF THE COURSE: M.SC. IN PSYCHIATRIC NURSING**

**Duration:** 2 years

**ACADEMIC FACULTY AND RESEARCH INTERESTS:** Please refer (page 35)

**NAME OF THE COURSE: B.Sc. IN NURSING**

**Duration:** 4 years

**ACADEMIC FACULTY AND RESEARCH INTERESTS FOR COLLEGE OF NURSING:**

**Dr.Ramachandra, Principal I/c:** Electro Convulsive therapy, Substance Abuse related problems, Rehabilitation, HIV & Mental Health.

**Mrs.Pratibha Swamy, Associate Professor:** Quality of Life, Status of working women.

## **LECTURERS:**

**Mr.Jayakumar.B:** Health Education  
**Ms.Jayanthi.K.N:** Rehabilitation of Psychiatric patients  
**Mrs.Anitha D'Souza:** Coronary care  
**Mrs.Poornima.H.N:** Girl children and Sports  
**Mrs.Priya Baby:** Stroke Nursing in acute phase  
**Mrs.Kanitha.D:** Mentorship in Nursing  
**Mrs.Valliammal.S (Ad-hoc):** Value of play in children and Nurse autonomy

## **CLINICAL INSTRUCTORS:**

**Mrs.Pamela John:** Telephonic conversation in nursing  
**Ms.P.Vimal Devi:** Health Education  
**Mrs.Jayamari.S:** Case study  
**Mrs.Kesiya.C.Y:** Guidance & Counselling  
**Mrs.R.Rajalakshmi:** Rehabilitation  
**Mrs.P.Jayanthi:** Budget  
**Mrs.Sathyavathy.N:** Stress Management in Nurses  
**Mrs.B.Sivakami:** Evaluation  
**Mrs.K.Suguvana Selvi:** Performance appraisal  
**Mrs.D.Mythili:** Inventory  
**Mrs.Annie John.P:** Case discussion  
**Mr.Kannan.K:** Nursing conference  
**Mrs.S.Vijayalakshmi:** Non-pharmacological approaches to relieve labour pain  
**Mrs.Rajeshwari.B:** Stress Counselling  
**Ms.T.Suseela:** Role Play  
**Mr.N.Rajesh:** Health Administration

## **NAME OF THE COURSE: B.Sc. IN ANAESTHESIA TECHNOLOGY**

**Duration:** 3 years

**ACADEMIC FACULTY AND RESEARCH INTERESTS:** Please refer (page 48)

## **NAME OF THE COURSE: B.Sc. IN RADIOGRAPHY**

**Duration:** 3 years

**ACADEMIC FACULTY AND RESEARCH INTERESTS:** Please refer (page 40)

## **DIPLOMA COURSES**

### **POST BASIC DIPLOMA IN PSYCHIATRIC/MENTAL HEALTH NURSING**

**Duration:** 1 year

## **POST BASIC DIPLOMA IN NEUROSCIENCES NURSING**

**Duration:** 1 year

All the applications received 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/ sponsored candidates shall be informed directly by Registered Post Acknowledgement Due.

**ACADEMIC FACULTY AND RESEARCH INTERESTS:** Please refer (page 35)

## **DIPLOMA COURSE IN CLINICAL NEUROPHYSIOLOGY TECHNOLOGY (DCNT)**

**Duration:** 2 years

All applications received 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.

### **METHOD OF SELECTION**

A. The Selection procedure for all the postgraduate courses listed under A (page 10) will be as follows:

1. Selection will be purely based on merit as determined in the ONLINE Entrance test (computer based) only. 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 44% of marks in the Entrance test shall not be eligible to be called for counseling.

- 1a. If no eligible candidates are available against reserved seats, they shall be filled up from general merit category students.

Candidates who have cleared the UGC, CSIR, ICMR, DBT NET qualifying exams are exempted from the Entrance Test. 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. programme.

2. 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. 0.25 marks for all wrong answer will be deducted and there will be no marks deducted for unanswered question. The negative marking is followed for all the Medical and Non-Medical subjects. A single Common ONLINE Entrance Test will be conducted for MD and DPM in Psychiatry courses for candidates with MBBS degree. Separate ONLINE Entrance Test will be conducted for DM in Neurology and M.Ch. in Neurosurgery courses for both candidates with MBBS and MD/DNB and MS/DNB qualification respectively. The Entrance test for candidates applying for DM in Neuroradiology, DM in Neuroanaesthesia and DM in Child and Adolescent Psychiatry courses will be conducted separately. A candidate can apply for a maximum of 4 courses only which includes both Medical and Non-Medical courses (MD in Psychiatry and Diploma in Psychiatry are treated as two separate courses).

3. 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 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 list will be prepared for Diploma in Psychiatry & M.Phil. in Clinical Psychology for the seats reserved for Karnataka domiciles.

In case of two or more candidates obtaining equal marks in the Entrance test, then, their inter se merit will be determined as under:

- a. No. of attempts in the previous qualifying exam.
- b. If the number of attempts are same, candidates securing higher marks in the pervious 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 rank higher.

Such eligible candidates in each category shall be called to appear before a duly constituted Selection Committee for the counseling.

4. The 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.

B. Admission to B.Sc. Courses listed under B (page 12)



The selection will be based on the marks obtained by the Candidate in the qualifying exam i.e., P.U.C or equivalent examination. 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. ***There will be no Entrance Test for B.Sc. courses.***

B (1). Admission to Diploma Courses listed under B (page 12)

All applications received 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

### **DATE OF JOINING**

Selected candidates must join the course, after paying the necessary fees on or before the dates 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 secures 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.

#### **GENERAL INSTRUCTIONS**

1. Application Abstract with Demand Draft, Photograph and enclosures received after the closing date or which are not complete in all respects will not be considered.
2. Candidates are advised to send their Application Abstract with Demand Draft and enclosures preferably by post/courier. The Institute takes no responsibility for any delay in the receipt or loss of application in transit.
3. All claim made in the application must be supported with documentary proof.
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 Counseling failing which the candidate will not be allowed to appear for Counseling.
5. Candidates called for ONLINE Entrance test and counseling will have to make their own arrangements for stay at Bangalore. 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 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.
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 ₹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 ₹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 to be executed will be provided at the time of joining.

12. Eligible candidates for ONLINE Entrance Test can download the hall ticket online to produce at the time of Entrance Test.
13. Qualified candidates list for 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, 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 are BANGALORE, HYDERABAD, COIMBATORE in the South, PUNE in the West, DELHI in the North, KOLKATA in the East and BHOPAL in the Central Zone. There will be multiple test centres in each of these cities and NIMHANS reserves the right to distribute the test centres to the applicants. A candidate has to select three cities in the order of priority i.e., 1<sup>st</sup> choice, 2<sup>nd</sup> choice and 3<sup>rd</sup> choice. The choice of City/Centre cannot be claimed as a matter of right.

**A candidate applying for more than one course with the following combinations has to take the Online Entrance Test in Bangalore only:**

1. MD Psychiatry and any eligible M.Phil. courses
2. MD Psychiatry and any eligible Ph.D. courses
3. Diploma in Psychiatry and any eligible M.Phil. courses
4. Diploma in Psychiatry and any eligible Ph.D. courses
5. M.Phil. in Biophysics, M.Phil. in Neurophysiology and M.Phil. in Neurosciences
6. Any Ph.D. courses with M.Phil. in Biophysics or M.Phil. in Neurophysiology or M.Phil. in Neurosciences
7. M.Phil. in Clinical Psychology and M.Phil. in Neurosciences
8. Ph.D. in Clinical Psychology and M.Phil. in Neurosciences
9. All Ph.D. courses except Ph.D. in Clinical Psychology and Ph.D. in Psychiatric Social Work

**Candidates applying for the following courses/course combinations can take the Online Entrance Test from any of the seven cities listed above:**

1. MD in Psychiatry
2. MD in Psychiatry and Diploma in Psychiatry (If eligible)
3. M.Phil. in Clinical Psychology and/or Ph.D. in Clinical Psychology
4. M.Phil. in Psychiatric Social Work and/or Ph.D. in Psychiatric Social Work
5. M.Sc. in Psychiatric Nursing

**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 on a**

**single day i.e., on 26<sup>th</sup> February 2012 at all the Test Centres across the country simultaneously.**

**Possession/use of Mobile Phones/Electronic Devices is strictly prohibited in the premises of NIMHANS Entrance Test Centres and candidates shall be liable for the penal action for any such act.**

### **WARNING**

In case any candidate is found to have supplied false information or 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 concerned student shall be given liberty to explain and if his/her explanation is not found satisfactory, the authority would expel him/her from the Institute.

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

### **COMPLAINTS COMMITTEE**

NIMHANS has a Complaints Committee pertaining to sexual harassment of Women at work place headed by Dr.Shoba Srinath, Prof. & HOD of Child & Adolescent Psychiatry.

### **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. The junior residents admitted for various courses are required to stay in the hostels, subject to availability.

All residents are expected to stay in Kabini hostel and its annexe subject to availability of accommodation. Kabini hostel and its annexe 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. programme or to M.Phil. courses are provided accommodation in either 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 ₹250/- per month towards electricity and water charges. Candidates who are admitted to the Ph.D. and M.Phil. courses are required to pay ₹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 PROGRAMME**

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. Department of Publication organizes 3 months Kannada language programme in collaboration with the Department of Kannada & Culture, Government of Karnataka to learn and to speak in Kannada. 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 Institute was established in the year 1959 as a regular department under NIMHANS and subsequently amalgamated in 1971, with Central council for Research in Ayurvedic Sciences, New Delhi for financial and technical assistance. The Institute extends Research and Therapeutic Services predominantly in Psychiatric and Neurological disorders.

The Institute has full fledged Out Patient and In Patient facilities. In Patient 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/Vice-Chancellor, NIMHANS

### **BIOMEDICAL ENGINEERING**

The Biomedical Engineering department manages and provides the Computer Network (LAN) and telephone facility to more than 1000 nodes by laying fibre optic cable with 8 mbps internet lease line. All the hardware, network and software issues related to the systems connected in the network is taken care by the department. Centralised user group communication (mobile telephone) is provided to all the clinicians, residents and essential service staff in the Institute which is monitored by the department of Biomedical Engineering.

### **COGNITIVE NEUROSCIENCES**

The laboratory is located in the Ashwini building next to Emergency Services. A 3T MRI with capability to record EEG simultaneously with FMRI is established to undertake studies in Cognitive Neurosciences.

### **FREE LEGAL AID CELL – NIMHANS**

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

### **NEURO BIOLOGY RESEARCH CENTRE, NIMHANS**

Located opposite to the Library and Information Centre in the administrative wing of NIMHANS. The Research Centre has nearly 10 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 kilometer from NIMHANS) is managed 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'. Indoor/Outdoor games, facilities like Ladies/Gents Gym, Shuttle Court, Carrom, Chess, Table Tennis, Football, Cricket, Hockey besides volley ball net are available. The Gymkhana also organizes various sports competitions and cultural activities for both students and staff of NIMHANS.

## **PHOTOGRAPHY**

A Photography section assists in video coverage and taking photographs of all the major programmes of this Institute. It also assists the clinicians in their area of dissertations/research.

## **ENGINEERING**

A full fledged Engineering section is functional at this Institute. The Engineers are deputed from the Karnataka Government. They take care of the maintenance of all the NIMHANS buildings, involve in the new constructions. There are Civil, Electrical and Horticultural Engineering divisions under the Engineering Section.

## **CONVENTION CENTRE**

A state of the Art Convention Centre facility is available for Medical and other related programmes/conferences. There are three Auditoriums ranging from 150 to 850 seating capacity. It has a huge dining hall, ample parking facility, guest and storage rooms are also available.

## **CENTRAL ANIMAL RESEARCH FACILITY**

At Central Animal Research Facility (CARF), we are conducting a certificate course on Care, Breeding and Management of Laboratory animals. The course is of 60 hour duration. It is presented in the power point presentation. The course will run for around one month. In addition to this, there will be practical training programme in routine laboratory animal techniques.

## **LIBRARY & INFORMATION SERVICES**

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



More than 1780 e-journals have been included in the field provided on-line access on campus network, which has 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.

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' covers three Indian Journals for 15 years.

The Library has a functional spacious independent building with 240 seat capacity, with internet access, e-mail and database access.

### **CANTEEN**

There is a good canteen facility catering to the needs of the Staff, Students and public.

### **PUBLICATION**

The Publication department in the Institute brings out reports of activities, research publications, health education materials periodically. More than 66 publications have been brought out so far. In addition, translation of material from English to other Indian languages are enabled. The implementation of official language in the Institute as per the directions of the Union Ministry of Health & Family Welfare is undertaken here.

#### **Publications of NIMHANS**

	₹
1. Biomembranes : Proceedings of National Symposium on Biological Membranes and Model Systems, NIMHANS (1977)	90.00
2. Psychotherapeutic Process: Proceedings of the National on Psychotherapeutic Process, NIMHANS (1978)	20.00
3. Proceedings of the Seminar on Neuro-Oncology (1979)	100.00 (₹50 for students)
4. Proceedings of the first National Seminar on Neuroanaesthesia (1983)	25.00
5. Profiles of Research in Neurosciences in India (1984)	15.00
6. Evoked Potentials (1985)	50.00
7. Mind and Mental Ill health (Kannada – 2 <sup>nd</sup> edition) (1998)	50.00
8. Social Beliefs and Mental Health (Kannada-2 <sup>nd</sup> Edition) (1994)	15.00

9.	NIMHANS JOURNAL (Supplement Issue) Proceedings of Symposium on Cervical Spine (1988)	35.00
10.	Health Education Series No.1 – Epilepsy (Kannada and English) ( <a href="#">Available at the Health Education Deptt</a> )	1.00
11.	Mental Health in Ayurveda (Reprinted-2001)	25.00
12.	Proceedings of the National Workshop on ECT : Priorities for Research and Practice in India	100.00
13.	Proceedings of the Symposium on Humanity and Medicine	50.00
14.	Proceedings of the Indo US Symposium on Child Mental Health	75.00
15.	Mental Health Care by Primary Care Doctors (Available in Director's Office)	100.00
16.	Psychotherapy Training in India (Revised edn – 2001)	200.00
17.	ECT Administration Manual (1997)	50.00
18.	Psychiatric Obstetrics & Gynaecology	100.00
19.	Proceedings of the Seminar on Psychological Therapies in Children and Adolescents (2000)	200.00
20.	Hospital Information Booklet(English & Kannada)	10.00
21.	Statistics for Mental Health Care Research	200.00
22.	CD on ECT	100.00
23.	Application of Oriental Philosophical Thoughts in Mental Health	100.00
24.	Psychological Assessment of Children in the Clinical Setting	250.00
25.	Changing Marital and Family Systems Challenges to Conventional Models in Mental Health	200.00
26.	Manual of Mental Health Care for Health Workers (Available in Director's Office)	100.00
27.	NIMHANS Neuropsychology Battery Manual (2004)	250.00
28.	NIMHANS Neuropsychology Battery for Children – Manual (2004)	200.00
29.	Activity Manual for the Teachers on Health Promotion using Life Skills Approach (8 <sup>th</sup> , 9 <sup>th</sup> and 10 <sup>th</sup> standards) (Available in Director's Office)	350.00 (Per set)
30.	(i) Manual for Preschool Teachers (ii) Manual for Promotion of Psychosocial	₹20/-

	Development of Children	₹30/-	
	(iii) Manual for School Teachers (Hindi English & Kannada)	₹20/-	70.00 (Per set)
31.	Obsessive Compulsive Disorder Current understanding & Future Directions, 2007.		500.00
32.	Psychological Research in Mental Health and Neuroscience (1957-2007)		300.00
33.	NIMHANS Neuropsychological Battery (DVD)		250.00
34.	Manual of Counselling for Doctors (Available in Director's Office)		100.00
35.	Posters- Features of Mental Disorders (Available in Director's Office)		20.00
36.	Priority Mental Disorders Training Module (Available in Director's Office)		100.00
37.	Mindscapes (Available in MH& SP Dept.)		400.00
38.	Handbook of Psychiatric Social Work (Available in PSW Dept.)		200.00
39.	Arogyada Gadegalu		60.00