

SUMANDEEP VIDYAPEETH

(Declared as Deemed to be University under Section 3 of the UGC Act 1956)

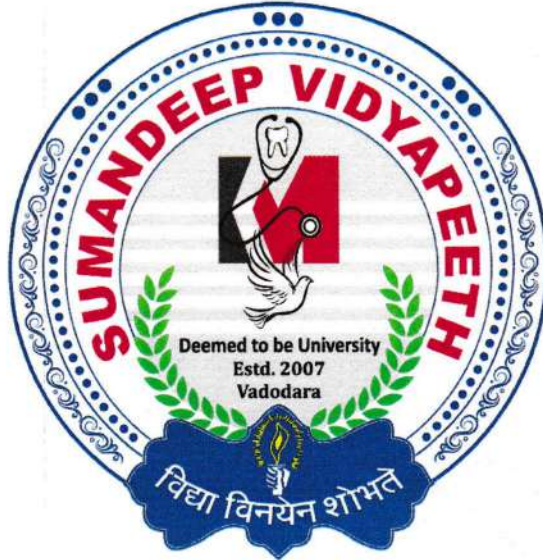
Accredited by NAAC with a CGPA of 3.53 out of four-point scale at 'A' Grade

Category – I deemed to be university under UGC Act - 2018

At & Post Piparia, Tal: Waghodia 391760 (Gujarat) India.

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CURRICULUM

Diploma in NEUROLOGY & NEUROSURGERY ASSISTANT

Attested CTC

Sharaney
15/2/2021

Vice-Chancellor

Sumandeep Vidyapeeth

An Institution Deemed to be University

Vill. Piparia, Taluka: Waghodia.

Dist. Vadodara-391 760. (Gujarat)



Uchandra

P. K. Shah



AMENDED UP TO DECEMBER -2020

INTRODUCTION

Objectives

Neurology and Neurosurgery assistant students must demonstrate core knowledge about established and evolving biomedical and clinical sciences and the application of this knowledge to patient care in their area of practice and you will get to develop collaborative and beneficial professional relationships not just with your supervising neurosurgeon, but also with all the other members of the medical team.

Program Outcome:

The role involves working closely with patients of all ages to investigate the functioning of the nervous system in order to diagnose and monitor neurological disorders, such as epilepsy, strokes, dementia, nerve and muscle dysfunction, and multiple sclerosis. The candidate who will work in hospital have a series of typical duties such as closing the wounds at the end of the surgery, ordering and interpreting various scans and tests such as CT scans and MRIs.

Ethics and accountability

Students will understand core concepts of clinical ethics and law so that they may apply these to their practice as healthcare service providers. Program objectives should enable the students to:

- Describe and apply the basic concepts of clinical ethics to actual cases and situations
- Recognize the need to make health care resources available to patients fairly, equitably and without bias, discrimination or undue influence
- Demonstrate an understanding and application of basic legal concepts to the practice
- Employ professional accountability for the initiation, maintenance and termination of patient-provider relationships
- Demonstrate respect for each patient's individual rights of autonomy, privacy, and confidentiality

Commitment to professional excellence

The student will execute professionalism to reflect in his/her thought and action a range of attributes and characteristics that include technical competence, appearance, image, confidence level, empathy, compassion, understanding, patience, manners, verbal and non-verbal communication, an anti-discriminatory and non-judgmental attitude, and appropriate physical contact to ensure safe, effective and expected delivery of healthcare.

Eligibility for admission

- Candidate should have passed 10 + 2 with science(PCB)

Duration of the course

Duration of the course is 3 year including internship

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Medium of instruction:

English shall be the medium of instruction for all the subjects of study and for examination of the course

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Attendance

A candidate has to secure minimum 80% attendance in overall with at least-

1. 75% attendance in theoretical
2. 80% in Skills training (practical) for qualifying to appear for the final examination.

No relaxation, whatsoever, will be permissible to this rule under any ground including indisposition etc.

Assessment: Assessments should be completed by the academic staff, based on the compilation of the student's theoretical & clinical performance throughout the training programme. To achieve this, all assessment forms and feedback should be included and evaluated. Student must attain at least 50% marks in each Theory, Internal assessment and Practical independently / separately for each individual subject.

COURSE OF INSTRUCTION

| Course Name | Course Code | Theory (In hrs.) (Class and lab) | Practical (In hrs.) (Clinical) |
|--------------------------------------|-------------|-------------------------------------|-----------------------------------|
| First Year - Total Hours 1400 | | | |
| Neuro Anatomy | DNNS-101 | 60 | 40 |
| Neuro Physiology | DNNS-102 | 60 | 40 |
| Basic Nursing | DNNS-103 | 60 | 40 |
| Laboratory Tools & Techniques | DNNS-104 | 60 | 20 |
| Second Year - Total Hours 380 | | | |
| Neuro Pathology | DNNS -201 | 50 | 20 |
| Neuro Pharamcoogy | DNNS -202 | 50 | 20 |
| Total | | | |
| Third Year - Total Hours 170 | | | |
| Applied electro physiology | DNNS -301 | 50 | 40 |
| Operative procedure assistance | DNNS -302 | 50 | 30 |

SCHEME OF EXAMINATION

| Course | Course Code | Assessment | | | |
|--------------------------------|-------------|------------|-----------|------------|------------|
| | | Hours | Internal | External | Total |
| First Year | | | | | |
| Neuro Anatomy | DNNS-101 | 3 | 20 | 80 | 100 |
| Neuro Physiology | DNNS -102 | 3 | 20 | 80 | 100 |
| Basic Nursing | DNNS -103 | 3 | 20 | 80 | 100 |
| Laboratory Tools & Techniques | DNNS -104 | 3 | 20 | 80 | 100 |
| Total | | | 80 | 320 | 400 |
| Second Year | | | | | |
| Neuro Pathology | DNNS -201 | 3 | 20 | 80 | 100 |
| Neuro Pharamcoogy | DNNS -202 | 3 | 20 | 80 | 100 |
| Total | | | 40 | 160 | 200 |
| Third Year | | | | | |
| Applied electro physiology | DNNS -301 | 3 | 20 | 80 | 100 |
| Operative procedure assistance | DNNS -302 | 3 | 20 | 80 | 100 |
| Total | | | 40 | 160 | 200 |

Attested CTC

Signature

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FIRST YEAR DIPLOMA NEUROLOGY-NEUROSURGERY ASSISTANT

DNNS101-BASIC NURSING

60 HOURS

- First AID
- Basic Life Support & Cardiopulmonary Resuscitation
- IV Catheter insertion

DNNS102-NEURO PHYSIOLOGY

60 HOURS

- Resting membrane potentials
- Physiology of Nerve conduction & muscle contraction
- Physiology of Neuromuscular junction
- Sensory receptors and reflex arch

DNNS103-NEURO ANATOMY

60 HOURS

CNS

- Brain
- Cranial Nerves

PNS

- Plexuses & Peripheral Nerves
- Neuromuscular junction
- Muscles

DNNS104-LABORATORY TOOLS & TECHNIQUES

60 HOURS

- EEG & EMG machine operation
- Electrode placement
- EEG Techniques
- NCV & EMG Techniques
- VEP, AEP & SSEP concepts

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Each student shall undergo training in Skill Simulation Laboratory for learning certain basic clinical skills like IV/IM injection, setting IV line, Cardio-pulmonary resuscitation (CPR), and Life support skills in the beginning of second year, for duration of continuous four days. (Board of Studies letter No.:FPMS/SV/BOS-MIN/0006/2016-17, dated 19/04/2017, and vide notification of Board of Management resolution Ref.:No. SVDU/R/2017-18/5056, dated 09/01/2018).

FIRST YEAR DIPLOMA NEUROLOGY-NEUROSURGERY ASSISTANT

DNNS201-NEUROPHARMACOLOGY

50 HOURS

- Antiepileptic drugs
- Sedative and Hypnotics
- Antiplatelet / Anticoagulants
- Antiparkinsonian drugs
- CNS stimulants
- Sterilization – materials methods
- Anesthetic agents

DNNS202-NEUROPATHOLOGY

50 HOURS

- Epilepsy
- Peripheral Neuropathy
- Demyelinating disorders
- Myopathy
- Muscular dystrophy
- Degenerative disorders
- Cerebrovascular disorders
- Dementia

THIRD YEAR DIPLOMA NEUROLOGY-NEUROSURGERY ASSISTANT

DNNS 301-APPLIED ELECTROPHYSIOLOGY

50 HOURS

- Normal Adult EEG recording and interpretation
- Video EEG
- Normal Nerve conduction and Electromyography recording & interpretation.
- Application of EEG in Seizure disorders
- Application of Nerve conduction study in Neurological disorder
- Application of EMG in Neurological disorder

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DNNS 301-OPERATIVE PROCEDURE ASSISTANCE

50 HOURS

- Professional ethics
- Operating Room Ethics, Discipline, Equipments, Sterilization
- Common General Surgical Operations and Dressings
- maintenance of equipments and instruments
- OT techniques
- Post operative care of surgical patients

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