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

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CURRICULUM
Bachelor of Science
(B.Sc)
NEUROSCIENCE TECHNOLOGY

Attested CTC

15/2/2021

Vice-Chancellor
Sumandeep Vidyapeeth
An Institution Deemed to be University
Vill. Piparia, Taluka: Waghodia.
Dist. Vadodara-391 760. (Gujarat)

Dean
Smt. B. K. Shah Med. Instt. & Rese. Centre

AMENDED UP TO DECEMBER -2020

INTRODUCTION

Scope

The quality of paramedical care has improved tremendously in the last few decades due to the advances in technology, thus creating fresh challenges in the field of healthcare. It is now widely recognized that health service delivery is a team effort involving both clinicians and non-clinicians, and is not the sole duty of physicians and nurses. Professionals that can competently handle sophisticated machinery and advanced protocols are now in high demand. In fact, diagnosis is now so dependent on technology, that paramedical and healthcare professionals are vital to successful treatment delivery.
Effective delivery of healthcare services depends largely on the nature of education, training and appropriate orientation towards community health of all categories of health personnel, and their capacity to function as an integrated team, with a range of skills and expertise, play key roles within the National Health Service, working autonomously, in multi-professional teams in various settings. All of them are first-contact practitioners and work across a wide range of locations and sectors within acute, primary and community care.

Learning goals and objectives for paramedical healthcare professionals

The learning goals and objectives of the undergraduate and graduate education program will be based on the performance expectations. They will be articulated as learning goals (why we teach this) and learning objectives (what the students will learn). Using the framework, students will learn to integrate their knowledge, skills and abilities in a hands-on manner in a professional healthcare setting. These learning goals are divided into nine key areas, though the degree of required involvement may differ across various levels of qualification and professional cadres.

Program outcomes

1. The student has an in-depth understanding of mechanisms related to neurotransmitter signaling and glial-neuronal interactions in health and disease.
2. The student has an in-depth understanding of the overall organization of the vertebrate nervous system, including prevailing concepts on systems-level organization of the CNS.

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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:

1. He/she has passed the Higher Secondary (10+2) Science or a duly constituted Board with pass marks in Physics, Chemistry, Biology

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Duration of the course:

Duration of the course is 4 years including 1-year internship.

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.

Medium of instruction:

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

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.

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COURSE OF INSTRUCTION

Course Name	Course Code	Theory (In hrs.) (Class and lab)	Practical (In hrs.) (Clinical)	Total (in Hours)
First Year				
Anatomy	BNST101	60	40	100
Physiology	BNST102	60	40	100
Pathology	BNST103	30	30	60
Communication Skills And Personality Development	BNST104	40	-	40
2nd Year				
Neuro-anatomy	BNST201	60	40	100
Neurophysiology	BNST202	60	40	100
Neuro-Biochemistry	BNST203	40	30	70
Fundamentals of Computer Science	BNST204	40	-	40
3rd Year				
Basics of EEG	BNST301	60	40	100
Basics of EMG & NCV	BNST302	60	40	100
Patient care management and clinical care	BNST303	60	40	100
Environmental Science	BNST304	60	40	100

SCHEME OF EXAMINATION

First Year				
SUBJECT CODE	**SUBJECTS**	**EXAMINATION PATTERN**		
		Internal	Final	TOTAL
BNST101	Anatomy	20	80	100
BNST102	Physiology	20	80	100
BNST103	Pathology	20	80	100
BNST104	Communication Skills And Personality Development	20	80	100
Second Year				
BNST201	Neuro-anatomy	20	80	100
BNST202	Neurophysiology	20	80	100
BNST203	Neuro-Biochemistry	20	80	100
BNST204	Fundamentals of Computer Science	20	80	100

Third year				
BNST301	Basics of EEG	20	80	100
BNST302	Basics of EMG & NCV	20	80	100
BNST303	Patient care management and clinical care	20	80	100
BNST304	Environmental Science	20	80	100

FIRST YEAR B.SC IN NEURO SCIENCE TECHNOLOGY

BNST101-ANATOMY		**60 HOURS**	
S. No.	**Topics to be covered**	**Teaching Hours**	**Domain**
Unit-1	• Basic anatomy • Basics of nervous system • Subdivisions of nervous system • Central • Peripheral • Autonomic • Living anatomy of head and neck	**5** **2** **1**	**Must know** **Desirable to know** **Nice to know**
Unit-2	Thalamus • Introduction • Division of diencephalon • External features parts of thalamus • Nuclei of thalamus • Connections of thalamic nuclei • Uses/functions	**5** **2** **1**	**Must know** **Desirable to know** **Nice to know**

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Unit-3	Hypothalamus • Introduction • Division and boundaries of hypothalamus • Hypothalamic nuclei • Connections of hypothalamic • Functions/uses	**5** **3** **1**	**Must know** **Desirable to know** **Nice to know**
Unit-4	Ventricular system • Introduction • Review of skull • Classification • Functions	**5** **2** **2**	**Must know** **Desirable to know** **Nice to know**

Unit-5	Cerebrospinal fluid • Introduction • Production Circulation and absorption • Function	**2** **3**	**Must know** **Desirable to know**
Unit-6	Skull • Introduction • Bones of the skull • Joints of the skull • Anatomical position of skull Features of the skull- exterior and interior	**3** **2** **4**	**Must know** **Desirable to know** **Nice to know**
Unit-7	Cerebellum Introduction • Arterial supply of the cerebellum • External features	**3**	**Must know**

	• Divisions of cerebellum • Internal structure (In brief) Boundaries and functions	**5** **2**	**Desirable to know** **Nice to know**
Unit-8	Motor and sensory tracts Sensory receptors Sensory and motor pathways Pyramidal system Upper and lower motor neuron		

BNST102-PHYSIOLOGY		60 HOURS	
S. No.	**Topics to be covered**	**Teaching Hours**	**Domain**
Unit-1	Nerve muscle physiology • Functional anatomy, biological activities, electrical and physiological properties of nerve fiber, types of nerve fiber, degeneration and regeneration of neurons. Structure and function of neuromuscular junction, neuromuscular transmission, • Introduction of skeletal muscle, functional anatomy and organization, process and characteristics of muscle excitability and contractility, characteristics of skeletal muscles in intact body, EMG, and common muscle disorders, source of energy and metabolic phenomenon during muscle contraction • drugs affecting and disorders of neuromuscular junction • factors promoting neuronal growth,	**5** **3** **2**	**Must know** **Desirable to know** **Nice to know**
Unit-2	**Cranial nerves** • Introduction, function of cranial nerve, • Clinical significance	**4** **3**	**Must know** **Desirable to know**
Unit-3	Membrane potential • Introduction, genesis of membrane potential, recording of membrane potential • -Evolution of patients receiving oxygen therapy • Hazards of oxygen therapy.	**3** **2** **1**	**Must know** **Desirable to know** **Nice to know**

Unit-4	Synapses • Definition and its types, • Chemical synapse, • neurotransmitters	**5** **2**	**Must know** **Desirable to know**
Unit 5	Pathways Introduction, Salutatory propagation, plexus and roots, afferent and efferent pathways, • peripheral nerves of limbs	**3** **2**	**Must know** **Desirable to know**
Unit 6	Cerebellum Introduction, stimulus, sensors and receptors and its types, sensory cortex and its types, Neural circuits and neuronal activity, functions.	5 2	**Must know** **Desirable to know**
Unit 7	Brain stem Introduction, physiological structure, development, blood supply, Clinical significance, functions.	4 2	**Must know** **Desirable to know**

BNST103-PATHOLOGY		**60 HOURS**	
S. No.	**Topics to be covered**	**Teaching Hours**	**Domain**
Unit-1	Bone- gross and micro • Normal structure of bone and cartilages • Osteomyelitis – pyogenic, acute, chronic and tuberculosis • Osteoporosis, osteomalacia, rickets, scurvy • one Tumor- classification, benign • malignant and • Giant cell (tumor of bone) • Rheumatoid arthritis • Gout &Gouty arthritis • • osteomyelitis osteosarcoma (briefly)	**10** **5** **3**	**Must know** **Desirable to know** **Nice to know**
Unit-2	Muscle- gross and micro • Normal structure of muscle • Myasthenia gravis Myopathies – muscular dystrophies	**8** **5**	**Must know** **Desirable to know**

Unit-3	Nerve- gross and micro • Normal structure of nerve • Hydrocephalus • Infections – meningitis, acute, chronic, pyogenic, tuberculosis meningitis • HIV encephalopathy (AIDS - dementia complex) • Brain hemorrhage • Trauma to the CNS(head injury) • Peripheral nervous system (Normal structure) • Peripheral neuropathy • Walleriand egeneration	**8** **4** **3**	**Must know** **Desirable to know** **Nice to know**

BNST104-COMMUNICATION SKILL AND PERSONALITY DEVELOPMENT **TOTAL HOURS: 40**			
Sl. No	**TOPICS TO BE COVERED**	**Domain**	**Teaching Hours**
Unit-I	Listening Comprehension • Speeches • Interviews • audio-video clippings followed by exercises • Introduction to Communication • Importance of Communication • Barriers to Communication and ways to overcome them	Desirable to know Must Know Nice to know	10 hours
Unit-II	Conversation Skills • Greetings and Introducing oneself • Framing questions and answers • Role-play • Buying: asking detailed • Word formations trategies • Vocabulary building: Antonyms, Synonyms, Affixation, Suffixation, One words substitution	Must Know Desirable to know	5 Hours

Unit-III	Reading Comprehension • Simple narration and Stories • Newspaper and articles clippings • Sentence types • Note Making • Paragraph Writing • Comprehension • Report Writing: types, characteristics	Must Know	8 Hours
Unit-IV	Pronunciation • Pronunciation • Syllable and Stress • Intonation and Modulation	Must Know	10 Hours
Unit-V	Writing Comprehension • Letters: types, format, style • Précis Writing • Paragraph: Order, Topic sentence, consistency, coherence • Report and Proposal • Project Writing: Features, Structure	Must Know	15 Hours

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).

SECOND YEAR B.SC IN NEURO SCIENCE TECHNOLOGY

BNST201-Neuro Anatomy		**60 hours**	
S. No.	**Topics to be covered**	**Teaching Hours**	**Domain**

Unit-1	Spinal cord • Introduction • Blood supply • External features • Fissures and sulci • Attachment of spinal nerve roots • Internal structure Enlargement of spinal cord Spinal nerves Formation of plexus	**5** **2** **1**	**Must know** **Desirable to know** **Nice to know**
Unit-2	Cranial nerves • Introduction • Types – Motor, special sensory, mixed cranial nerves Functions	**5** **2**	**Must know** **Desirable to know**
Unit-3	Autonomic nervous system • Organization of nervous system • Anatomy of autonomic motor pathway • Structure of sympathetic and parasympathetic divisions • Neuro transmitters and receptors Functions	**5** **2** **1**	**Must know** **Desirable to know** **Nice to know**
Unit-4	Brain vascular supply • Introduction • Blood brain barrier • Characteristics of artery and veins Supply in different areas in brain Muscles • Origin • Insertion nerve supply	**5** **1**	**Must know** **Desirable to know**
Unit 5	Cerebrum • Introduction and structure of cerebrum • Cerebral cortex • Gyri, sulci, cortical areas -demonstration • Lobes of the cerebellum • Association commissural areas • Basal nuclei	**3**	**Must know**

	• Limbic system Functions • Dissection hall	**2**	**Desirable to know**
Unit-6	Meninges • Introduction • Menninges of brain Subdural and Subarachnoid Space	**3** **2**	**Must know** **Desirable to know**
Unit-7	Brain stem • Introduction • External features • Structure • Arterial supply • Development of functional column and nuclei Reticular formation Medulla • Introduction • External features • Structure • Arterial supply Function	**4** **2** **3** **1**	**Must know** **Desirable to know** **Must know** **Desirable to know**
	• Limbic system Functions • Dissection hall	**2**	**Desirable to know**
Unit-6	Meninges • Introduction • Meninges of brain Subdural and Subarachnoid Space	**3** **2**	**Must know** **Desirable to know**
Unit-7	Brain stem • Introduction • External features • Structure • Arterial supply	**4**	**Must know**

	• Development of functional column and nuclei Reticular formation Medulla • Introduction • External features • Structure • Arterial supply Function	**2** **3** **1**	**Desirable to know** **Must know** **Desirable to know**

BNST202-NEUROPHYSIOLOGY		**40 HOURS**	
S. No.	**Topics to be covered**	**Teaching Hours**	**Domain**
Unit-1	Nervous system Physiological structure of human brain, properties and function	**5** **3**	**Must know** **Desirable to know**
Unit-2	Cerebrum Introduction, physiological anatomy, cerebral cortex, cerebral hemisphere, functions	**5** **2**	**Must know** **Desirable to know**
Unit-3	Reflexes : Introduction, types, reflexes Involving Cranial nerves. Functions of cranial nerves	**5** **2** **1**	**Must know** **Desirable to know** **Nice to know**

Unit-4	Motor system : Introduction , types of motor system functions and application areas	**5** **2**	**Must know** **Desirable to know**
Unit-5	Sensory system: Introduction, stimulus, sensors and receptors and its types, sensory cortex and its types	**5** **2** **1**	**Must know** **Desirable to know** **Nice to know**
Unit-6	Basic neurological examination: Introduction, absence and presence of disease in nervous system, aspects of neurological examination	**5** **1**	**Must know** **Desirable to know**
Unit 7	Basics of NCV and EMG : • Introduction, block diagram, • Basic instrumentation of NCV &EMG equipments	**4** **2**	**Must know** **Desirable to know**

BNST203-NEURO BIOCHEMISTRY		40 HOURS	
S. No.	**Topics to be covered**	**Teaching Hours**	**Domain**
Unit-1	Introduction to Cell • Definition of the cell • Difference between prokaryotic &eukaryotic cell	**8**	**Must know**
	• Structure of cell • Structure of cell membrane • Structure of various cell organelles i.e. nucleus, mitochondria, Golgi body, lysosomes, ribosomes, endoplasmic reticulum, centrioles etc	**5**	**Desirable to know**
	Detailed function of above mentioned cell organelles	**3**	**Nice to know**
Unit-2	Chemistry of Proteins • Definition of the proteins &amino acids • Structure &function of proteins and amino acids • Classification of proteins &amino acids	**8**	**Must know**
	• Biologically important peptides &amino acids • Amino acids &peptides which act as neurotransmitters • Organization of protein structure Denaturation	**5**	**Desirable to know**
Unit-3	Protein Metabolism • Transamination • Deamination • Oxidative deamination • Decarboxylation • Synthesis, transport ,disposal and toxicity of ammonia	**5**	**Must know**
	• Urea cycle and its disorders • Metabolism of individual amino acids specifically related to nervous tissue	**3**	**Desirable to know**
	• Specialized products formed from amino acids Inborn errors of amino acid metabolism	**2**	**Nice to know**

Unit-4	Nervous Tissue • Introduction, Types and functions of neurotransmitters	**5**	**Must know**

BNST204-FUNDAMENTALS OF COMPUTER SCIENCE HOURS: 40 HOURS			
S.no	**Topic**	**Domain**	**Hours**
1	**Introduction about computers** What are Computers? Its various characteristics, applications and limitations. Functional Block Diagram of computer . **Computer Architecture**: Classification of computer on basis of Purpose, signal and size and portability.	Must know	8
	Evolution of computer from 1st generationtofourth generation. Some description about fifth generation.	Desirable to know	4
	Data representation in memory.	Nice to know	1
2	**Hardware:** To study the various input devices used: Keyboard, mouse, OMR, OCR, MICR, BCR, Scanner etc. To study the internal structure of CPU: Registers, ALU, Motherboard, H D , Memory, Cache, and Virtual Memory. TO study the various Secondary storage devices: Magnetic Disk, Optical Disk, Flash memory To cover what are Monitor, Its types, Printer: Dot matrix, Daisy wheel. Line printer, Laser printer, Thermal Printer, Ink Jet printers etc.	Must know	8

3	To cover the types of Software, Languages and their types (High level and low level language.) To cover the definition of operating system, its types and what are the various functions and types of operating system. Basic introduction about Interfaces: its types character user and graphical user interface (DOS and Windows)	Must know	8

THIRD YEAR B.SC IN NEURO SCIENCE TECHNOLOGY

BNST301-BASICS OF EEG **60 HOURS**

S. No.	Topics to be covered	Teaching Hours	Domain
Unit-1	Anatomical and physiological structure of Human brain. Division Clinical significance	**5** **4**	**Must know** **Desirable to know**
Unit-2	Electroencephalography : brain waves, frequency , 10-20 electrode placement system, montage, amplitude, source of EEG	**5** **4**	**Must know** **Desirable to know**
Unit-3	Review of EEG machine: basic components (designing and working), block diagram of EEG machine Functioning of each component	**5** **4**	**Must know** **Nice to know**
Unit-4	Amplifiers, preamplifiers, noise and its types, Basic of filters.	**5** **4**	**Must know** **Desirable to know**
Unit 5	Neonatal EEG: Introduction, Frequency, Amplitude EEG in different age groups Normal and	**5** **4**	**Must know** **Desirable to know**

	abnormal EEG		

BNST302-BASICS OF EMG & NCV		60 HOURS	
S. No.	**Topics to be covered**	**Teaching Hours**	**Domain**
Unit-1	Anatomical and physiological structure of human nervous system Lymphatic system Upper and lower limbs Sensory and motor nerves .	**8** **5**	**Must know** **Desirable to know**
Unit-2	Electromyography (working principle) Nerve conduction velocity Nerve muscle stimulator Electrode placement Stimulator applications	**8** **4**	**Must know** **Desirable to know**
Unit-3	Review of EMG machine: basic components (designing and working), block diagram of EMG machine Advancement in EMG machine design	**8** **4**	**Must know** **Nice to know**
Unit-4	Amplifiers Preamplifiers, noise and its types, Basics of filters.	**5** **4**	**Must know** **Desirable to know**

BNST303-PATIENT CARE MANAGEMENT AND CLINICAL CARE- 60 HOURS			
S. No.	**Topics to be covered**	**Teaching Hours**	**Domain**
Unit-1	Maintain patient, ward record. Proper labeling of patient investigation. History taking Investigations.	**8** **3**	**Must know** **Desirable to know**
Unit-2	Patient preparation for procedure. Pre procedure Neurology procedure. Post procedure care.	**8** **4**	**Must know** **Desirable to know**
Unit-3	Observation Examination, Physical examination, Nursing care, Ward management, Patient care during seizures Differential diagnosis provisional diagnosis ,Medication	**8** **3**	**Must know** **Nice to know**
Unit-4	Factual report writing Receiving patient in procedure room (EEG and EMG room), Decision for treatment/ admission	**8** **4**	**Must know** **Desirable to know**

BNST304-ENVIRONMENTAL SCIENCE		60 HOURS	
S.No.	**Topic**	**Teaching Hours**	**Domain**
1.	The Multidisciplinary nature of environmental studies	2hr.	Must know
2.	• Definition, scope and importance. • Need for public awareness	2hr.	Must Know
3.	Natural Resources Renewable and non-renewable resources: Natural resources and associated problems	2 hr.	Must Know
4.	Forest resources: Use and over-exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forests and tribal people.	2 hr.	Must Know
5.	Water resources: Use and over-utilization of surface and Ground water, floods, drought, conflicts over water, dam's benefits and problems.	2 hr.	Must Know
6.	Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources, case Studies.	2 hr.	Nice to Know
7.	Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies.	2hr.	Must Know
8.	Energy resources: Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources. Case studies.	2 hr.	Must Know
9.	Land resources: Land as a resource, land degradation, man induced landslides, soil erosion and desertification.	2 hr.	Good to Know
10.	**Unit 2**: Ecosystems Concept of an ecosystem. Structure and function of an ecosystem. Producers, consumers and decomposers.	2 hr.	Must Know
11.	Energy flow in the ecosystem. Ecological succession. Food chains, food webs and ecological pyramids.	2 hr.	Good to Know

12.	Biodiversity and its conservation Hot-spots of biodiversity. Threats to biodiversity : habitat loss, poaching of wildlife, man-wildlife conflicts Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity	2hr.	Must Know

13.	**Unit 3**: Environmental Pollution Definition, causes, effects and control measures of:-	2hr.	Must Know
14.	a. Air pollution	2hr.	Must Know
15.	b. Water pollution	1hr.	Must Know
16.	c. Soil pollution	1hr.	Good to Know
17.	d. Marine pollution	1hr.	Good to Know
18.	e. Noise pollution	1hr.	Must Know
19.	f. Thermal pollution	1hr.	Nice to Know
20.	g. Nuclear hazards	1hr.	Nice to Know
21.	Solid waste Management: Causes, effects and control measures of urban and industrial wastes.	1hr.	Must Know
22.	Fireworks, their impacts and hazards	2hr.	Must Know
23.	Pollution case studies.	2hr.	Good to Know
24.	Disaster management: floods, earthquake, cyclone	1hr.	Good to Know
25.	**Unit 4 :** Social Issues and the Environment From Unsustainable to Sustainable development	1 hr.	Must Know
26.	Urban problems related to energy Water conservation, rain water harvesting, watershed management	1hr.	Must Know
27.	Resettlement and rehabilitation of people; its problems and concerns. Case studies.	1hr.	Nice to Know
28.	Environmental ethics: Issues and possible solutions. Consumerism and waste products. Environmental Legislation (Acts and Laws)	1hr.	Good to Know
29.	Issues involved in enforcement of environmental legislation Human Population and the Environment	1hr.	Nice to Know
30.	Population growth, variation among nations with case studies Population explosion – Family Welfare Programmes and Family Planning Programmes	21hr.	Must Know

31.	Human Rights. Value Education. Women and Child Welfare.	1 hr.	Good to know

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