

State Medical Faculty of West Bengal

INFORMATION BROCHURE

FOR

DIPLOMA IN NEURO ELECTRO PHYSIOLOGY 2015

State Medical Faculty of West Bengal

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Price: Rs. 500/-

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INTRODUCTION:

State Medical Faculty of West Bengal was established as a statutory body by the Government of West Bengal in the Year 1914. The Faculty was entrusted with conduction of Licentiate Courses in Medical Sciences (L.M.F.). Subsequently the Faculty started conducting examination of Diploma in Pharmacy.

With the rapid growth of medical sciences it was felt necessary to train the paramedical personnel of the State. With this object in view, the State Medical Faculty started conduction of different diploma and certificate courses with the approval of the Government of West Bengal. It is essential to have a uniform standard while conducting the courses not only in Government Institutions but also in the Private Organizations and as such, the Faculty has already stipulated minimum requirement for starting conduction of different Para Medical Courses.

As per provision of Clinical Establishment Act of West Bengal any Diagnostic Laboratory possessing Valid Licence under the said Act can start the Training Course with the permission of appropriate authority provided the diagnostic laboratory fulfills the minimum requirements as stipulated by the State Medical Faculty of West Bengal.

Any Institution desirous of starting Para Medical Courses with the affiliation of State Medical Faculty of West Bengal has to fulfill the stipulated requirements and to follow the syllabus as prescribed by the Faculty. The State Medical Faculty also acts as an Examining Authority for such courses.

Conduction of a Para Medical Course in Affiliated Institutions is being monitored by the Faculty so that uniformity is maintained while conducting the same course in different institutions.

Presently, the State Medical Faculty of West Bengal is considering grant of recognition to Institutions for conducting the following courses:

<u>Sl.</u>	Name of the Courses
1.	Diploma in Medical Laboratory Technology
2.	Diploma in Radiography
3.	Diploma in Radiotherapeutic Technique
4.	Diploma in Optometry with Ophthalmic Technique
5.	Diploma in Perfusion Technology
6.	Diploma in Neuro Electro Physiology
7.	Diploma in Cath-Lab-Technician
8.	Diploma in Dialysis Technician
9.	Diploma in Critical Care Technology
10.	Diploma in Operation Theatre Technology

COMMON PROCEDURE FOR OBTAINING AFFILIATION FOR ANY DIPLOMA COURSE RUN BY THE FACULTY

PART - I

The intending institute which wants to start a particular course is required to collect the booklet "Information Brochure" for that particular Course by paying the requisite fee of Rs.500/-.

The Institute should create the facilities required for starting the course as per norms of the course.

The Institute after fulfilling the norms for the course is required to apply in the prescribed form annexed in **Part-II** alongwith the requisite Inspection Fee of **Rs. 5000/- for each course**. Inspection fee is not refundable.

The Faculty will send Inspection Team for physical verification of the facilities to start the course.

On the basis of report received from the Inspection Team, the Faculty may ask the Institute for compliance or modification, as the case may be, or accord permission to start the course.

Caution Money Deposit:

- i) Private Institutions to be recognized are required to deposit with State Medical Faculty of West Bengal Caution Money of Rs.50,000/- per course.
- ii) Caution Money will be treated as one-time payment till students of private institutions continue their studies.
- iii) Caution Money deposited by Private Institutions will not accrue any interest payable to the concerned depositors.
- iv) Caution Money will be refunded without any interest at the time when the institute closes their course of studies with prior intimation to the Faculty.
- v) In the event of de-recognition of the institution by the Faculty, Caution Money deposited would be forfeited.
- vi) Caution Money deposit is applicable in case of new Institute / existing Institute to conduct new course(s).

Conduction of Paramedical Courses:

Paramedical Courses should exclusively be conducted at the institute premises under the control of the Affiliated Institute, save and except Blood Bank Training for DMLT [Tech] Course, which could be done in any Government Hospital or any Private Hospital with their consent. Consent letter to be attached in Application Form for recognition.

In case of rented building of the institute, three years' rental agreement with the owner of the premises be submitted with the Application Form for grant of recognition/extension of recognition.

Fire Safety Measures:

Fire Safety Measures should be ensured. Provision for alternative exit be arranged.

In case of non-availability of Fire Safety Measures, the same may be informed and also their plan of actions for introduction/improvement of Fire Safety Measures.

Duration of Course:

Duration of Para Medical Courses is 2 years followed by 6 months compulsory Post Examination Practical Training of minimum **600 hours in 6 months** after passing of Final Examination of Para Medical Courses.

Eligibility:

Any person seeking admission into the course of study in Para Medical Courses must fulfill the following conditions:

- a) That he/she has passed the Higher Secondary or an equivalent Examination of any Indian University or duly constituted Board, with pass mark in Physics, Chemistry and Biology.
- b) That he/she has attained the age of 17 years on 1st September of the respective year of his/her admission into the course in an approved institution.
- c) That he/she has furnished a certificate of physical fitness from a registered medical practitioner and two references from persons other than relatives testifying to satisfactory general character.

Selection:

Selection will be made on the basis of pass marks obtained in Physics, Chemistry and Biology in the Qualifying Examination [i.e. Higher Secondary and/or equivalent Examination]. The Faculty will, however, reserve the right to amend/alter/modify the selection procedure at its sole discretion.

Fees:

The admission and tuition fees will be charged by the individual institution with the approval of the Faculty. The Tuition Fees will be Rs.15,000/- per course per annum in respect of all Affiliated Institutions.

The Registration Fees of Rs.500/- per student per course and Examination Fees of Rs.400/- per student per examination will be charged by the State Medical Faculty of West Bengal separately in respect of students admitted in Para Medical Courses in Affiliated Institutions. Students of **ESI Hospitals, Kolkata Port Trust Centenary Hospital, Chittaranjan National Cancer Institute are required to pay Registration Fees and Examination Fees.**

Academic Session:

The Session will commence ordinarily in September of every year. The exact date is to be announced at the time of admission.

Inspection, Counseling, etc.:

Inspection is to be carried out to all Institutions including existing Institutions.

All affiliated Institutions have to join Counseling of the Faculty on scheduled date, time and venue. Seed money for joining the Counseling is Rs. 4000/- for each course. However, if they do not get students in Joint Counseling then they will be allowed for second counseling at their end.

Prospectus and Application Forms, etc. are to be issued by the Affiliated Institutions by their own arrangements for the second counseling, if any. Subject to the approval of the Faculty.

Students of the Non-Government Institutions, selected in the Joint Counseling, have to deposit Rs.15,000/- preferably by Demand Draft in favour of State Medical Faculty of West Bengal at the time of admission in the Counseling Hall. Faculty will remit this amount to the concerned Institution in due course.

Affiliated Institution has to pay Rs.500/- per student per month for six months as stipend to the students during Internship (Clinical) and/or Post-Examination Practical Training.

Affiliated Institution has to pay **Recognition Fee of Rs. 10,000/-** per course per annum.

Affiliated Institutions have also to pay **Rs.4000/-** as Examination Fee per examination per course.

Institutions should have been attached with Multi Specialty Hospital of its own; in case of DMLT [Tech] Course, Diagnostic Centre with large laboratory and in case of DRD [Tech] Course, well equipped Radio Diagnostic Centre, should have been attached.

New Institution (other than existing one) has to submit "No Objection Certificate" for conduction of course from the State Government.

Internship for all the passed out students of Diploma Courses is compulsory and that same should be completed just after passing the Final Examinations.

No Objection Certificate

- I. In case of new Institute proposed for affliation to conduct different Para Medial course(s) is required to submit Noc from State Govt
- II. Similarly existing Institutes intend to conduct new Para Medical course(s) is also required to submit Noc from State Govt.

PART II

Application for obtaining fresh affiliation or extension of affiliation of State Medical Faculty of West Bengal for conducting

Stat	e riedicai i	acuity of W	CSC	Bengal for con		of the Course(s))					
1.	Name and address of the applicant:										
	Name										
	Address wit	Address with Pin Code									
				ax No							
2.		•	_	urse(s) are runnir ne of other course		itute: Yes/No					
3.	Status of th	e Institution: _									
4.	Details of th	e Institution:									
		Registration A		lo. or the Trust No		n the Society/Trust					
	(ii) Date of	ation No Registration - Registration -									
				stration of So f Association of th		alongwith detail of st)					
	` '	•		ees and their expent occupation and		_					
Name Mem	e of the ber/Trustees	Designation Society	in	Present Occupation	Academic Background	Experience					

- B. If other, specify:
- i) Name and complete postal address of the proposed Institution.
- ii) Name and address and Telephone No. of the authorized person for communication.
- iii) Furnish the details of Resource and funding agencies.
- iv) Number of students proposed to be admitted.
- v) Year of starting/proposed date of starting the course.
- vi) Specify the nature of attached hospital/laboratories with full description thereto and status of the same.
- vii) Registration No. of the establishment for Practical Training.
- 5. Details of Fire Safety Measures are as under : (Attach separate sheet)
- 6. Alternative exit arranged or not.
- 7. Rented Building, Yes/No.
- 8. Name of the authorized person to sign Registration forms, Admit Cards and other documents.

Note:-

- a) Copy of current license under Clinical Establishment Act of West Bengal be attached.
- b) In case of new Institution, copy of permission letter from the Government of West Bengal for conducting Para Medical Course be attached.
- c) In case of rented building of the institute, three years' rental agreement with the owner of the premises be submitted with the Application Form for grant of recognition/extension of recognition.
- d) Copies of **Blood Bank Facility (For DMLT [Tech] Course only)** provided by Govt. Hospital / Private Blood Bank if any.
- e) Copies of updated **Registration Certificate** of WBMC for Medical Faculty are attached.
- f) Copy of License under clinical Establishment Act is attached

Name	:
Signature of the Head of Institute	:

Date with stamp :

Availability of Existing Infrastructural Facilities:

1.	Whether the Institution is/will be established
	in own building or in a rented building –
	(Documentary evidence is required in case of owned building and in case of rented building
	the rent receipt and Agreement with the owner is required.)

Accommodation:-

Administrative Area:

SI.	Particulars	Size of the room	Remarks of Inspectors
No.			-
	Head of Department Room		
	Staff Room:		
	a) Room for Teaching Staff		
	b) Room for Technicians		
	c) Office Room		
	d) Store Room		

2. Academic Area:

SI. No.	Particulars	Size of the room	Remarks of Inspectors
	Class Room		
	Library		
	Students' Common Room		

3. Staff:

Non-Teaching staff -

(a) Regular:

SI.No.	Designation	Name &	Qualification	Date of	Inspector's
		Address	& experience	Appointment	Remarks
1					
2					
3					
4					
5					
6					
7					
8					
9			_		
10					

Non-Teaching staff – **(b) Part Time :**

SI.No.	Designation	Name &	Qualification	Date of	Inspector's
		Address	& experience	Appointment	Remarks
1					
2					
3					
4					
5					
6					
7					

Whether portable water is supplied	:
Whether Gas is provided	:
Whether electricity is provided	:
Whether waste disposal management system is followed	:

Whether the following records are maintained

- 1. Attendance for staff
- 2. Salary Payment Sheets
- 3. Cash Book
- 4. Store material receive and supply (Stock Ledgers)
- 5. Students Attendance
- 6. Student Register (Admission)
- 7. Dead Stock Register
- 8. Patients' Attendance Register/Daily Treatment Register in Clinic.
- 4. The Training Area should be provided with the following:

SI.	Particulars	Size of the room	Remarks of Inspectors
No.			
1	EEG Laboratory	20'x20'x12'	
2	EMG/NCV/EP Laboratory	20'x20'x12'	

5. Teaching Staff:

(A) Regular Faculty:

SI.No.	Designation	Name & Address	Qualification & experience	Date of Appointment	Regn No*	Inspector's Remarks
1		7.00.000		7.660		
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						

* In case of Doctor

(B) Guest Faculty:

SI.No.	Designation	Name & Address	Qualification & experience	Date of Appointment	Regn No*	Inspector's Remarks
1			•			
2						
3						
4						
5						
6						
7						
8						

^{*} In case of Doctor

6. List of equipment:

Sl.No.	Name of Equipment	No. Required	Inspector's Remarks
1	EEG Machine (Analogue)	One	
2	EEG Machine (Digital)	One	
3	EMG/NCV/EP Machine	Two	
4	Video EEG	One	

Name :

Signature of the Head of Institute :

Date with stamp :

PART III

Standard requirements of infrastructural facilities to start Para Medical Course : DNEP

Accommodation:

The Institution must provide adequate ventilation, lighting and maintain hygienic condition. The Institute should provide with adequate number of toilets separately for teaching staff and for male and female students.

1. Administrative Area should consist of the following:

SI. No.	Particulars	Size of the room	Remarks of Inspectors
	Head of Department Room	150 Sq. ft.	
	Staff Room:		
	a) Room for Teaching Staff	200 Sq. ft.	
	b) Room for Technicians	200 Sq. ft.	
	c) Office Room	150 Sq. ft.	
	d) Store Room	150 Sq. ft.	

2. Academic Area should provide with the following:

SI. No.	Particulars	Size of the room	Remarks of Inspectors
	Class Room	300 Sq. ft.	
	Library	500 Sq. ft.	
	Students' Common Room	300 Sq. ft.	

3. The Training Area should be provided with the following:

SI. No.	Particulars	Size of the room	Remarks of Inspectors
1	EEG Lab	20'x20'x12'	
2	EMG/NCV/EP Lab	20'x20'x12'	

4. Staff -

The following Non-Teaching Staff are required:

Sl.No.	Designation	Qualification	No. Required
1	Office Superintendent	Graduate in any discipline with	One
		experience	
2	Office Assistant	Qualification same as that of 1	One
		with experience in Computer	
		operation	
3	Store Keeper	Qualification same as that of 1	One
		with experience in Store Keeping	
4	Library Assistant	Graduate in Science	One
5	Laboratory Attendant	Nurse (Female)	Two
6	Office Attendant	10 th Standard	One
7	Cleaner/Safaiwala		One

5. Teaching Staff:

The following Teaching Staff are required:

Sl.No.	Designation	Qualification	No. Required
1	Lecturer in Neurology	DM (Neurology)	Two
2	Lecturer in Anatomy	MBBS/MS (Anatomy)	One
3	Lecturer in Physiology	DMRD/MD (Physiology)	One
4	Lecturer in Pathology	MBBS/MD (Pathology)	One
5	Technical Instructor	DNEP	Three

6. List of Equipment:

Sl.No.	Name of Equipment	No. Required	Inspector's Remarks
1	EEG Machine (Analogue)	One	
2	EEG Machine (Digital)	One	
3	EMG/NCV/EP Machine	Two	
4	Video EEG	One	

RULES, REGULATIONS AND SYLLABUS

PART - IV

Duration of the DNEP Course:-

- (a) The first one year of the course shall be devoted to the training in the subjects of the Preliminary Courses.
- (b) On completion of the Preliminary Course, the Preliminary Examination will be held.
- (c) On passing the Preliminary Examination, the students shall follow for one year the curriculum of the Final Course. On completion of the course, the Final Examination will be held.
- (d) After successfully passing the Final Examination, the students shall undergo Compulsory Practical Training of not less than 600 hours in not less than 6 months in a recognized hospital.
- 1. The Preliminary and Final Course shall include the respective subjects as given in the Tables as well as the minimum number of hours devoted to each subject, lectures, practical and demonstration, subject to addition and alteration at the discretion of the Governing Body of the State Medical Faculty.

The detailed syllabus of each subject is given in **Appendix I**.

Preliminary Course

Subject to be taught	No. of Lectures	Total Practical Class
 Neuro-Anatomy Neuro-Physiology Neuro-Pathology Clinical Aspects 	03 (1 hr. each) 09 (1 hr. each) 03 (1 hr. each) 25 (1 hr. each)	50 Classes 2 hrs. each
	Final Course	
Subject to be taught	No. of Lectures	Total Practical Class
 Neuro-Anatomy Neuro-Physiology 	10 (1 hr. each) 10 (1 hr. each)	60 Classes 2 hrs. each

Examination for the Diploma Course:

- 1. No person other than a student borne on the roll of an approved training institution and studying therein at the time shall be eligible for appearing at the examination held by the Governing Body of the Faculty.
- 2. Every student after admission into the course of study in an approved Institution shall apply in the prescribed form **Appendix II** through the Principal/Director of the Institution with a fee of Rs.500/- to have his/her name registered in the Students' Register maintained by the Governing Body. A registration certificate bearing serial number allotted to the student will be sent to him/her through the Head of the Institution.
- 3. (a) There will be two examinations (a) Preliminary and (b) Final. The examinations shall be held twice a year at such time and place as may be determined by the Governing Body.
 - (b) Internal Assessment marks for all Para Medical Courses have been introduced from the academic session 2013, 20% of allotted marks in Theory and 10% of allotted marks in Oral and Practical in each paper of Diploma courses would be assigned for internal assessment marks. Pass marks in Internal assessment is 50% in each paper rounded off to the nearest five. A candidate should not be allowed to sit for examination without pass marks in Internal Assessment.
- 4. **Preliminary Examination**: Only such students, who produce certificate from the Head of the approved Institutions in proof of their having regularly undergone the Preliminary Course of study by attending not less than 75% of classes, both in theoretical and practical in each subject, shall be eligible for appearing at the Preliminary Examination.

The Examination will be conducted according to the following table:

Subject of Examination	Total marks Theory+IA	Total marks Oral/Practical+IA
 Neuro-Anatomy, Neuro-Physiology, 	80+20	90+10
Neuro-Pathology 2. Clinical Aspects, Technical Aspects	80+20	90+10

- 5. All written examinations shall be of three hours' duration and the number of papers in each subject shall be as mentioned above.
- 6. Every candidate for the Preliminary Examination shall apply to the Secretary, State Medical Faculty of West Bengal through the Head of the Institution where he/she is undergoing his/her study, in the prescribed form together with the necessary certificates **Appendix III**.
- 7. No application will be entertained unless it reaches the Secretary atleast 21 days before the date notified for commencement of the examination. An application received later but not later than 14 days before the commencement of examination, may on sufficient grounds being shown and accepted, be entertained provided that a late fee of Rs.20/- is paid for the delay.

8. **Final Examination:** Only such students, who produce certificate from the Head of the Institution concerned in proof of their having regularly undergone after successfully passing the Preliminary Examination by attending not less than 75% of classes – lectures, practical and clinical of each subject separately and has worked for atleast 350 days in the Neurology Department of a recognized Hospital shall be eligible for appearing at the examination as given in the following table:

Subject of Examination	<u>Total marks Theory+IA</u>	<u>Total marks Oral/Practical+IA</u>
 Neuro-Anatomy, Neuro-Physiology, Neuro-Pathology 	80+20	90+10
2. Clinical Aspects, Technical Aspects	80+20	90+10

NB: All written examination shall be of 3 hours' duration and the number of papers in each subject shall be as shown against each.

- 9. Every candidate for the Final Examination shall apply to the Secretary, State Medical Faculty of West Bengal through the Head of the Institution where he/she had been undergoing his/her course of studies, together with the necessary certificates from the Head of the Institution **Appendix IV**.
- 10. The fee payable with the application shall be such as may be prescribed by the Governing Body from time to time. The fee is not refundable on any account.
- 11.No such application will be entertained unless it reaches the Secretary atleast 21 days before the date notified for commencement of the examination. An application received later but not later than 14 days before the commencement of examination, may on sufficient grounds being shown and accepted, be entertained provided that a late fee of Rs.20/- is paid for the delay.
- 12.A candidate declared to have passed the above examinations both Preliminary and Final if he/she secures 50% of the total marks in each subject Theoretical + Oral 50% and Practical 50%. A candidate securing 75% marks or above in any subject or subjects, shall be declared to have obtained "Distinction" in that subject or subjects, provided he/she passes in all the subjects of the examination at the same time and at his/her first appearance at the examination.
- 13.A candidate, who appears at the Preliminary or Final Examination for the course but fails to pass in all the subjects or in one or more subjects, may be admitted to one or more subsequent examinations in subject or subjects in which he/she failed provided, however, that he/she passes in all the subjects in three subsequent examinations within a period of two years computed from the date of the examination in which he/she appeared for the first time. If he/she does not pass the entire examination within a period of two years, as mentioned above, he/she shall have to take the whole examination in all the subjects at the time when he/she appears next.

- 14.A failed candidate shall have to undergo a further course of training and produce a certificate from the Head of the Institution stating that he/she has, since the date of the last examination and within the period of six months proceeding his/her reexamination, attended to the satisfaction of the Head of the Institution further course of study in the subject or subjects in which he/she failed **Appendix V**.
- 15. The general rules and regulations regarding conduct of examinations of the State Medical Faculty of West Bengal shall apply with necessary modifications for the conduct of Diploma in Neuro Electro Physiology Course examinations. Detailed rules and regulations may be framed by the Governing Body from time to time.

AWARD OF DIPLOMA IN NEURO ELECTRO PHYSIOLOGY COURSE: DNEP

- 1. A candidate who passes successfully the Final Examination will be granted a Diploma in Neuro Electro Physiology Course: DNEP.
- 2. Every such application shall be accompanied by a certificate from the Head of the recognized Hospital, in the form given in **Appendix VI**, with all the particular mentioned therein and the Head of the Institution shall forward the same to the Secretary, in the form given in **Appendix VII**, stating whether he/she considers him/her eligible to receive the Diploma in Neuro Electro Physiology Course: DNEP.
- 3. The Governing Body may then, if satisfied that all requirements of these regulations have been fulfilled, issue the Diploma, which shall be in the form given in **Appendix VIII.**

PART IV

Appendix I

PRELIMINARY COURSE

E.E.G. COURSE CARRICULUM:

- 1. NEURO-ANATOMY: Lobes of the brain and neurons.
- 2. NEURO-PHYSIOLOGY:
 - i) Physiology of excitable neurons
 - ii) Membrane potentials and action potentials
 - iii) Synaptic activity
 - iv) Neurotransmitters
 - v) Generation of EEG rhythm and basic EEG rhythm
- 3. NEURO-PATHOLOGY:
 - i) Pathology of nerve cell injury
 - ii) Generation of epileptiform activity
- 4. CLINICAL:
 - A) Seizure disorder and its differential diagnosis
 - B) i) Normal EEG pattern in children and adult, awake and sleep.
 - ii) Neonantal EEG
 - iii) Normal variants
 - iv) Artifacts: Eye movements, muscle pulse
 - v) Activation methods: Hyperventilation, photic stimulation, sleep deprivation, others
 - vi) Abnormal EEG records, definition-spike, sharp, slow waves, other abnormalities
 - vii) Abnormal EEG in neurological diseases
 - viii) Brain death

5. TECHNICAL ASPECTS:

- i) Different parts of EEG machine and its functions, i.e. montage, electrodes, filter, calibration, sphenoidal electrode, depth electrodes.
- ii) Electroencephalographic monitoring (in patients and ambulatory), Video Electroencephalography, Intraoperative records, Quantitative electroencephalography, Brain mapping and others (in brief).
- iii) Electroencephalographer's reporting
- iv) Record keeping.

FINAL COURSE

EEMG, NCV AND EVOKED POTENTIALS COURSE CARRICULUM:

1. NEURO-ANATOMY:

Muscle: Origin, insertion, nerve supply, structure Nerve: Course-cranial and peripheral, structure

2. NEURO-PHYSIOLOGY:

Muscle:

- i) Functions of muscles
- ii) Muscle contractions
- iii) Electrical properties of muscles

Nurve:

- i) Functions of nerve
- ii) Electrical properties of nerve. Near filed potential and Far field potential
- iii) Nerve conduction
- iv) Neuromuscular junction and neurotransmitters

3. NEURO-PATHOLOGY:

Muscle: Pathological changes in muscles

- i) Primary muscle disease
- ii) Injury
- iii) Metabolic
- iv) Inflammatory
- v) Others
- vi) Neurogenic muscle involvement
- vii) Neuromuscular junction abnormalities

Nurve:

- i) Demyelination
- ii) Axonopathy

4. CLINICAL:

- 1) Nerve: a) Disease affecting cranial and peripherals
 - i) Bells play
 - ii) Peripheral neuropathy
 - iii) Entrapment neuropathy
 - b) Basic principles of nerve conduction study (NCS)
 - i) Motor NCS
 - ii) Sensory NCS
 - iii) F-ware
 - iv) H-reflex
 - v) Blink reflex and others
 - vi) Repetitive nerve stimulation
 - vii) Abnormalities in disease
 - viii) Central motor conduction

- 2) Muscle:
- a) Disease of muscle and neuromuscular junctions
- b) Normal EMG recording-Resting/Insertional activity/Volitional recruitment pattern, Interference pattern.
- c) Abnormal EMG
 - i) Myopathies
 - ii) Neurogenic muscle involvement
 - iii) Involuntary muscle contractions
 - iv) Neuromuscular transmission disorder
- d) Needle EMG Conventional, Macro EMG, Surface EMG, Single fibre EMG
- 3) Evoked potential studies:
 - i) Visual evoked potential
 - ii) Brainstem auditory evoked potential
 - iii) Somatosensory evoked potential
- 4) Instruments:
 - i) Basic knowledge about the machines
 - ii) Electrodes
 - iii) Electrode impedance
 - iv) Identification of wave pattern
 - v) Artifacts
 - vi) Normal laboratory values
 - vii) Electromyography reporting
 - viii) Record keeping
- 5. Polysomnographic studies Normal sleep and sleep disorder (in brief)

APPENDIX II

Form of application for registration of the name of a student admitted to an approved Training institution for Diploma in Neuro Electro Physiology – DNEP.

	[Vide Regulatio	n 2 of Part I	II]
1.	Name of the student in full	:	
2.	Address – (a) Permanent	:	
	(b) Present	:	
3.	Father's Name {In case of married women, her Husband's name}	:	
4.	Age [as on the date of admission]	:	
5.	Race – Caste or religion	:	
6.	Name of the approved training Institut	ion :	
7.	Date of admission	:	
8.	Preliminary educational qualification	:	
			Signature of the applicant
I here	eby certify that the above particulars are	e true to my	knowledge.
Dated	l, the20	Signature of	f the Head of the Institute

APPENDIX III

Application for admission to the Preliminary Examination for Diploma in Neuro Electro Physiology : DNFP.

[Vide Regulation 6 of Part III] Tο The Secretary, State Medical Faculty of West Bengal. Sir, I beg to apply for admission to the ensuing Preliminary Examination for Diploma in Neuro Electro Physiology: DNEP to be held by the Governing Body of the State Medical Faculty of West Bengal from The required certificate from the Head of the Institution is given herewith and I have paid the prescribed fee of Rs. in his office. Name in full (Block letters) 1. 2. Father's Name 3. Present Age Student Registration No. 5. Permanent Address 6. Present Dated, the20 Signature of the applicant in full Certificate of the Head of the Institution I certify as below -[1] that the above named was admitted in this Institution for the course of Diploma in Neuro Electro Physiology: DNEP on [2] that previous to his/her admission, he/she has attended regularly the course of studies as laid down in the Regulations. His/her attendance in the several subjects being as below: No. of Lectures Subject to be taught No of Attendance 03 (1 hr. each) 1. Neuro-Anatomy 2. Neuro-Physiology 09 (1 hr. each) 50 Classes 2 hrs. each 3. Neuro-Pathology 03 (1 hr. each) 4. Clinical Aspects 25 (1 hr. each) [3] That he/she has paid in my office the prescribed fee of Rs.400/- which is being separately remitted to the Faculty.

Signature of the Head of the Institute

[4] That his/her conduct in the Institution was satisfactory.

Dated, the20

APPENDIX IV

Application for admission to the Final Examina	on for Diploma in Neuro	Electro Physiology: DNEP
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	[Vide Re	gulation	of Part III]	
To The Secretary, State	Medical Faculty of West E	Bengal.		
Sir,				
I beg to apply for admission to the ensuing Final Examination for Diploma in Neuro Electro Physiology: DNEP. to be held by the Governing Body of the State Medical Faculty of West Bengal from*				
The required certification of Rs		Institution is g	jiven herewith	and I have paid the prescribed fe
I passed the Prelimir	nary Examination in		and my presen	nt age is
1. 2. 3. 4. 5.	Name in full (Block lett Father's Name Present Age Student Registration N Permanent Address Present	:	: : :	
Dated, the		ne of the train	Signature of the signat	of the applicant in full
	Certificate of	the Head of	the Instituti	on
I certify as below –				
	amedoma in Neuro Electro Ph			passed the Preliminary
[2] that he/she has attended regularly in this Institution. The 2 nd Year's course of studies laid down in the Regulations and fulfilled the other requirements His/her attendance in the several subjects being as below:				
Subject to be taug	<u>ht</u>	No. of Lect	<u>:ures</u> <u>No</u>	. of Attendance
 Neuro-Anatomy Neuro-Physiology Neuro-Pathology Clinical Aspects 	IY	10 (1 hr. ea 10 (1 hr. ea 05 (1 hr. ea 35 (1 hr. ea	ach) ach)	
[3] That he/she has paid in my office the prescribed fee of Rs.400/- which is being separately remitted to the Faculty.				
[4] That his/her conduct in the Institution was satisfactory.				
Dated, the	20	Sign	ature of the He	ead of the Institute

APPENDIX V

(Certificate by the Head of the Institution regarding further course of training in the subject or subjects in case of a failed candidate)

	[Vide Regulation	of Part III]
at the Prelin	ninary/Final Examination for the Dipl	who appeared oma in Neuro Electro Physiology: DNEP in in
has undergo		following subject/subjects since the date of the
SI. No.	Subject(s)	Number of Theoretical Lecturers/ Demonstrations attended
		Signature of the Head of the Institute
Dated, the .	20	
Place :		

APPENDIX VI

(Certificates to be produced by students of Diploma in Neuro Electro Physiology: DNEP after completion of Practical Training)

	completion of Fract	icai Trailing)
	[Vide Regulation	of Part IV]
No. :		Date :
[name of the student] Physiology: DNEP under	after passing the Final vent practical training fo	Examination for Diploma in Neuro Electro rhours during the period from my supervision and guidance.
	Sig	gnature
	Na	me
	De	signation
	Ad	dress
	(Count	ersigned by the Head of the Hospital)
STA	TE MEDICAL FACULT	Y OF WEST BENGAL
	APPENDIX	(VII
	[Vide Regulation	of Part IV]
To The Secretary State Medical Faculty of We Dated, the20	st Bengal	
Sir,		
Diploma in Neuro Electro Pl	nysiology: DNEP held by	have passed the Final Examination for the the Faculty in20and have quired under the Regulations of which the

necessary certificates are enclosed. I certify that I consider the students to be eligible to receive

the Diploma in Neuro Electro Physiology: DNEP.

Yours faithfully,

Head of the Institution

APPENDIX VIII

[Vide Regulation 2 of Part IV]

Diploma in Neuro Electro Physiology: DNEP

We, t	he President and Membe	ers of the Governing Bod	y of the State Med	ical Faculty of West
Bengal, actin	g under the authority ve	ested in us by Article 26	of the Statutes of	the said Faculty and
in accordance	with the Regulations n	nade there under with th	e approval of the	Government of West
Bengal,	do	hereby	declare	that
	• • • • • • • • • • • • • • • • • • • •		after	undergoing the
prescribed con	urse of training for the	Diploma in Neuro Electr	o Physiology : DN	EP, duly passed the
	-	n Neuro Electro Physiolo20 with disti		y this Faculty in the
And whis Faculty.	we, accordingly, grant hi	m/her this Diploma in N	euro Electro Physic	ology : DNEP of
Dated year			.day of	in the
Signed	d on behalf of the Gover	ning Body of the State M	ledical Faculty of '	West Bengal.
Secretary				President
Siana	ture of the holder			

REPORT OF THE INSPECTORS

Part V

Summary of findings by the Inspectors in respect of				
For _	Course.	Name of the Institution		
1.	Accommodation (including toilet, ventilation, light)	:		
2.	Fire Safety Measures available or not?	:		
3.	Water, Electricity, Gas & Waste Disposal	:		
4.	If the Institute is in rented building, then 3 years Agreement is shown or not?	:		
5.	Furniture	:		
6.	Office Records	:		
7.	Laboratory equipment	:		
8.	Qualification of Teachers	:		
9.	Teacher-student ratio	:		
10.	Workload of teachers	:		
11.	Library books and Journals	:		
12.	No. of working days in the session	:		
13.	Daily working hours	:		
14.	Laboratory facilities provided to the students	:		
15.	Standard of teaching	:		
16.	Standard of students	:		
17.	Performance of students in i) Theoretical	:		
	ii) Practical	:		
	iii) Oral	:		
18.	Facilities provided for conducting the examination (Examination hall rented may be allowed)	:		

19.	Date of Last Inspection	:
20.	In case of DMLT [Tech] Course Blood Bank facilities have been shown in Government Hospital/Private Hospital and attendance of DMLT students in Blood Bank has been seen.	:
21.	Compliance of past deficiencies (if any)	:
22.	NOC from State Govt. for conduction of new course has been seen.	:
23.	Updated License for clinical Establishment Act. has been seen.	:
24.	Updated Registration Certificates of the Doctor Tutors from WBMC.	:
25.	Recommendation of Inspectors: The Institution ma conditions are to be fulfilled before consideration of exte	
1.		
2.		

Name and Signature of the Inspectors with date