



জি ই এ নেচনেল কলেজ

**GEA NATIONAL COLLEGE**

**GUWAHATI**

[www.geanationalcollege.com](http://www.geanationalcollege.com)

**Approved by**

অসম চৰকাৰ



GOVERNMENT OF ASSAM

Directorate of Medical Education, Govt. of Assam  
Department of Health & Family Welfare, Govt. of Assam

**Affiliated to**



**Srimanta Sankaradeva University of Health Sciences**  
The only Government Health University of Assam









RAJ BHAVAN  
GUWAHATI


### MESSAGE

I am happy to learn that GEA National College adding one more feather to its kitty has started Paramedical courses for the students.

My best wishes to GEA National College and the newly opened Paramedical College and hope the new course would set a new standard in paramedical discipline in the State.

May your journey towards excellence witness unprecedented success.

**Dated: May 30, 2017**

  
**(Banwarilal Purohit)**  
**Governor of Assam**



**Sarbananda Sonowal**



**Chief Minister, Assam  
Guwahati**



Dispur  
19/5/2017

**MESSAGE**

It is a matter of satisfaction that GEA National College, Guwahati has started imparting instructions in paramedical courses. I hope the college aims to help the students grow to their fullest potential and produce a resource bank of enlightened manpower in the field of paramedics.

I urge the college administration to help the students to stay inspired and teach them the latest arts and science of Lab Technology and Physiotherapy and contribute to health and happiness of mankind.

My best wishes to GEA National College all success in its endeavour.

**(SARBANANDA SONOWAL)**



**DR. HIMANTA BISWA SARMA, Ph.D. LLB**  
**Minister, Assam**



Finance, Planning & Development, Health & F.W.,  
Education, Tourism, Guwahati Development,  
Cooperation, Handloom & Textile (Khadi & Village  
Industry) Pension & Public Grievances.

**MESSAGE**

*It gives me immense pleasure to learn that the newly established paramedical college in the name and style of GEA National College at Guwahati is going to start its maiden voyage very soon.*

*Paramedical sciences have their own value and significance which needs no exaggeration. Nowadays the increasing demand for skilled medical professionals has opened up numerous career opportunities for young aspirants. It is hoped that the newly established paramedical college will cater to the ever increasing demand for qualified and trained paramedical manpower of our state.*

*I would like to convey my heartiest best wishes to the GEA National College in their endeavour and mission.*

  
(Dr. Himanta Biswa Sarma)



E-Block, 3rd Floor, Assam Secretariat, Dispur, Guwahati - 781 006, Assam  
Tel. No. : 0361-2237315, Fax : 0361-2237012  
e-mail : himantab@hotmail.com / himantabsarmaoffice@gmail.com



অসম চান্দ্রা মোহন পটওয়ারী  
মন্ত্রী  
পরিষদ, উচ্চশিক্ষা, শ্রম-নিয়োগ,  
সামগ্রিক পরিকল্পনা, শক্তি



Chandra Mohan Patowary  
Minister  
Transport, Commerce & Industry,  
Parliamentary Affairs, Assam

Dispur  
19.5.2017

**MESSAGE**

It gives me immense pleasure to know that the GEA National College, Guwahati is opening its newly established Paramedical College. The two new courses namely Diploma in Medical Lab Technology and Physiotherapy will greatly help the students who wish to pursue these subjects.

I hope that the paramedical college will open new avenues to the students in acquiring the latest knowledge and expertise in the field of Medical Lab Technology and Physiotherapy which will benefit the general public.

I hope the newly established paramedical college acquires greater heights and excel in all areas.

(Chandra Mohan Patowary)

Office: Assam Secretariat "C" Block, 2nd Floor, Room No. C-228, Dispur, Guwahati-781006, Assam, India  
Bachchan (Minister's) Colony, Dispur, Guwahati-781004, Assam, India  
Phone: 9361-2237004 (Toll-free), E-mail: cmptowary2@gmail.com

Keshab Mahanta



MINISTER  
Water Resources,  
Science & Technology and I.T.  
Assam, Dispur, Guwahati-781006  
Tel: 9361-2237007 (Toll-free) 9361-2237003 (2)  
Mail ID: keshabmahanta@gmail.com

Dispur  
22-05-2017

**MESSAGE**

GEA National College, Guwahati has been imparting quality educational service to the state of Assam in particular and the North East region in general for the last several years. I am immensely delighted to learn that the College has been approved by the Govt. of Assam and has been granted affiliation by "Srimanta Sankaradeva University of Health Sciences" (SSUHS) to run paramedical courses particularly in Physiotherapy and Medical Laboratory Technology fields.

These courses are employment oriented which will certainly fulfill the manpower requirement in the expanding medical industry in Assam and North East.

I wish the GEA National College best of luck and hope that it will continue to render quality service in the field of education.

Wishing GEA National College all the very best in its endeavour.

(Keshab Mahanta)

Pallab Lochan Das  
Minister of State (Ind)  
Labour & Employment, Tax  
Tribes Welfare, Revenue &  
Disaster Management, Power  
Assam



☎ 9361-2237003 (2)

**MESSAGE**

I am pleased to learn that a Paramedical College in the name of GEA National College will be established shortly at Guwahati.

I hope the Institute will serve a great purpose for exploration of newer avenues of medicinal knowledge as well as for promotion of the society to serve as an avenue for development in the Healthcare sector.

I also hope that the Institute will strive towards achieving its goals of contributing towards all-round development of higher education and maintaining goodwill and understanding among different academic bodies striving for similar aims and objectives.

I wish all success to the College in its endeavour.

(Pallab Lochan Das)

Atul Bora  
Minister

Agriculture, Horticulture & Food Processing  
Animal Husbandry & Veterinary, UDO and  
Town & Country Planning



GOVERNMENT OF ASSAM  
Block -C, Ground Floor,  
Assam Sachivalaya, Dispur,  
Guwahati - 781006  
Tel-Fax : 0361-2237008 (2)



**MESSAGE**

I am glad to know that the paramedical course has been started in the newly established GEA National College, Guwahati. It is also understood that Srimanta Sankaradeva University of Health Sciences has granted provisional affiliation to GEA National College for a period of one year for DMLT and DPT courses.

I take this opportunity to compliment GEA National College in this endeavour.

On this auspicious occasion, I convey my heartfelt greetings and best wishes to the students and faculty members of the College on achieving the honour and urge them to work for the success of their students and the progress of the state.

Date : 25<sup>th</sup> May, 2017

(ATUL BORA)





It is a pleasure to learn that in these days of tight job markets and tough competition the GEA National College is providing an opportunity to fellow students for acquiring professional skills in such fields as management, computer application etc. I wish the staff and students success in winning good results.

Further, in view of the ever-changing economic scenario, I hope the college will be able to introduce new course — particularly courses that will enable our youths to become self-reliant and prosperous by exploiting local resources and advantages.

Once again, best of luck to all

Concerned.

Karen Graham  
5/3/08

DATE : 17-06-2017

MESSAGE

I am pleased to extend warm wishes to the Staff and Students of GEA National College, Guwahati on behalf of Srimanta Sankaradeva University of Health Sciences.

I am happy to know that GEA National College, Gumthall, a newly established Paramedical College has started their journey in the educational arena of this region under the provisional affiliation of Srinivas Sanshodhan University of Health Sciences vide No.GSARHS/2002016/1987-88, dated 15-05-2017 issued in accordance with the Government of Assam letter No. H.B.713/201344, dated 19-10-2016.

My best wishes are with the GEA National College, Gurnahalli for achieving every possible success in the coming days.

(Prof. (Dr.) B.K. Besterush)  
Registrar,  
Srianta Sanitaradeva University of  
Health Sciences.

To,  
Utpal Bhattacharya,  
CEO, GEA National College,  
Christian Baeß, Guxohel-781005

**'RAMANJALI'**  
Flower No. 23, Una Kanta Ground Station,  
Gandhi Road, North Baner, Pune-400074  
Ph. - 2341-266000, 2052114 (M), 82542-10000 (M)

Ref. \_\_\_\_\_

Date: 19. 5. 2013

"Message"

9 empyrate? GEA NATIONAL  
COLLEGE' for completing many successful  
years.

I am sure this college will  
certainly produce many successful  
students and make Asian proud.

Indira Gandhi  
14. 5. 2010

**Utpal Bharali**, MA, PGDM, DIT  
CEO, GEA National College



C/O. GEA National College  
Guehati, Kamrup (M), Assam  
Mobile (Office) : 9864044656

MESSAGE

It gives me immense pleasure to be associated with such an institution like **GEA National College**. I have been associated with this institution for more than 15 years. With this long experience, I can say that the College will never need to look back from here. It has already passed/crossed its struggle period and from here it will rise only to heights and heights.

For newly admitted students, I want to say that you have taken a right decision by choosing **GEA National College**. I assure you that the College will give you a new path where you will be able to find a new world. This new world will give you **economic sustainability, self respect, dignity, and a social position**.

At the end I want to mention that **GEA National College** follows such an educational method where we involve our students in various co-curricular activities to develop them academically as well as mentally too.

U+922.  
(Utpal Bharali)

[illegible]

Dated: June 1, 2017



# An Introduction of GEA National College



## **ABOUT US**

"GEA National College" is an educational wing/unit of "GEA Group of Institutions" which was established under Societies Registration Act.XXI of 1860, Govt. of India. The main motto of the society is to provide educational services to the people of Assam and North-East India. However, students from other places of India are also studying at GEA National College in large numbers.

Initially, the institution had been running some Certificate and Diploma level courses in the fields of Information Technology, Management and Paramedical Sciences.

Gradually, the Institution had started some UG, PG and Diploma courses under some prestigious Universities like Gauhati University IDOL, DDE Dibrugarh University, K.K. Handique State Open University.

In the year 2016, the Government of Assam permitted the institution to start a Para-Medical College in the fields of Physiotherapy & Medical Laboratory Technology.

Subsequently in May 2017, the College got affiliation from the one & only Government health University of Assam i.e. "Srimanta Sankaradeva University of Health Sciences" under which all medical colleges of Assam are running their courses including Gauhati Medical College (GMC), Assam Medical College (AMC), Silchar Medical College (SMC), Jorhat Medical College (JMC), Tezpur Medical College (TMC) and Barpeta Medical College (FAAMC).

The institution has a high class infrastructure for the departments of Medical Laboratory Technology and Physiotherapy. Our paramedical departments, its laboratories and its infrastructures are approved by Directorate of Medical Education (DME) and Department of Health and Family Welfare, Govt. of Assam.

Presently, the institution is also running an ITI under State Council for Vocational Training, Govt. of Assam.

## **OUR STRENGTH**

At GEA National College, we have dedicated ourselves to the cause of upgrading each and every student and convert him / her to a professionally sound individual, to give dimensions to his / her hidden talents and dreams, to pursue the frontiers of excellence and to provide the opportunity for overall development. The motto of the College is "Acquire Knowledge, Be Certified and Get Placed Globally".

## **OUR FACILITY**

The College provides Study Material, Career Guide books of all sorts to every student. Besides, the College is giving utmost effort to improve the quality of the students in Communication and Soft Skills which includes speaking and writing in English as well as in any other language.

The college regularly organizes Extempore Speeches, Group Discussions, Debates, Seminars and Workshop Sessions in order to enhance the general knowledge, self confidence and communication skills of the students.



# An Introduction of the University



## Srimanta Sankaradeva University of Health Sciences

Assam, India



### RECOGNITIONS

GEA National College is Approved by Directorate of Medical Education (DME), Department of Health & Family Welfare, Government of Assam and Affiliated to Srimanta Sankaradeva University of Health Sciences (SSUHS).

"Srimanta Sankaradeva University of Health Sciences" is a full-fledged Government University of Assam.

"Srimanta Sankaradeva University of Health Sciences" was established by Government of Assam in 2009 as per Act "The Srimanta Sankaradeva University of Health Sciences, Act, 2007". The Srimanta Sankaradeva University of Health Sciences is the first Health University in the North-East Region. As the University is located in the heart of Guwahati city (Assam, India), it is well connected by Air, Rail and Surface Transport.

All medical Colleges of Assam including "Assam Medical College", "Gauhati Medical College", "Silchar Medical College", "Jorhat Medical College", "Tezpur Medical College" and "Barpeta Medical College (FAAMC)" are running their courses under this University only. In one line, the entire medical education (99%) of our state (Assam) is now running under this University only.

### The University Address:

Narakasur Hill Top,  
Bhangagarh, Guwahati-32,  
Assam, India.  
[www.ssuhs.in](http://www.ssuhs.in)

### Vice Chancellor (i/c)

Krishna Gohain  
IAS

### Deputy Registrar

Dr. Sujit Bordhan  
M.A., M. Phil., Ph.D, SLET (N.E. Region)

### Registrar. Academic

Prof. (Dr.) Mansi Mondol  
M.B.B.S., M.D.





# “Internship” / “Clinical Posting” Arrangements

Internship Facilities will be provided as much as required to each and every student. During Internship period a student will have to work full time (8 hours a day) in a hospital or diagnostic centre where he/she will get an opportunity to get commercial experience by giving services to different types of patients. After doing this kind of internships, a student becomes ready to work in the industry with knowledge, experience and confidence.

In recent years, our students have done various internships at the following hospitals/physiotherapy centers/diagnostic centers. More arrangements will be made in future, if needed.

1. GNRC Hospitals Ltd., Guwahati, Assam
2. Apollo Hospitals, Guwahati, Assam
3. SUN VALLEY Hospital, Dispur, Guwahati, Assam
4. B.Baruah Cancer Institute, Guwahati, Assam
5. Gauhati Medical College Hospital, Assam
6. ALCARE Diagnostic & Research Centre, Bhangagarh, Guwahati, Assam
7. Sanjevani Hospital, Maligaon, Guwahati, Assam
8. SHISHU SAROTHI, Centre for Rehabilitation & Training for Multiple Disability, Guwahati
9. Apex Diagnostics, Bhangagarh, Guwahati, Assam
10. Aastha International Diagnostic Centre, Tezpur, Assam
11. DPRC, Rajgarh, Guwahati, Assam
12. Mahendra Mohan Choudhury Hospital, Guwahati, Assam



Also at some other selected Govt. Hospitals of Assam



# “Internship” / “Clinical Posting” Arrangements

13. Jorhat Medical College and Hospital, Jorhat, Assam
14. ESIC Model Hospital, Guwahati, Assam
15. Solace Hospital and Research Centre, Goalpara, Assam
16. Critical Care Hospital and Research Institute, Lokhora, Guwahati, Assam
17. Sarathi Multispeciality Hospital, Nalbari, Assam
18. Swahid Mukunda Kakati Civil Hospital, Nalbari, Assam
19. Kushal Konwar Civil Hospital, Golaghat, Assam
20. Ultracare Diagnostic Centre, Survey, Guwahati, Assam
21. NHC Diagnostic Centre, Nagaon, Assam
22. Healthcare Diagnostic Centre, Nagaon, Assam
23. Satish Sarma Memorial Hospital, Pathsala, Assam
24. Healthcare Diagnostic Centre, Barpeta, Assam
25. Dispur Hospitals, Guwahati, Assam
26. Al Salam Hospital, Goalpara, Assam
27. Marwari Hospitals, Athgaon, Guwahati, Assam
28. North East Cancer Hospital and Research Institute, Jorabat, Assam
29. Lower Assam Hospital & Research Centre, Bongaigaon, Assam
30. Tularam Bafna Civil Hospital, Amingaon, Guwahati, Assam
31. G.B. Nursing and Research Centre, Nagaon, Assam

## **CAREER PROSPECTS FOR MEDICAL LABORATORY STUDENTS:**

Medical lab technicians can find jobs in Research Facilities, Crime Laboratories, Hospitals, Nursing Homes, Diagnostic Centers, Universities, Colleges, Pharmaceutical companies and Military Establishments. With their specialised skills, Lab Technologists are always in demand in Hospitals, Specialty Hospitals, Laboratories etc. with very high salary.

## **CAREER PROSPECTS FOR PHYSIOTHERAPY STUDENTS:**

Physiotherapy students have ample job prospects in Hospitals, Nursing Homes, Residential Homes, Rehabilitation Centers, Private Offices such as Private Practices or Private Clinics/Chambers, etc. with very high income. A good physiotherapist can easily earn 1 lakh to 2 lakhs per month.





# Courses - Recognition, Duration & Eligibility



## **Affiliated to -**

Srimanta Sankaradeva University of Health Sciences  
The Health University of Assam Government



## **Approved by -**

Directorate of Medical Education, Govt. of Assam  
Department of Health & Family Welfare, Government of Assam

## DEPARTMENT OF PHYSIOTHERAPY

- **Master of Physiotherapy (MPT)**

Eligibility : BPT Pass or Equivalent

Duration : 2 Years      Intake : 40 seats

- **Bachelor of Physiotherapy (BPT)**

Eligibility : 12th pass in Science stream with Physics, Chemistry and Biology

Duration : 4 Years (6 months internship)      Intake : 75 seats

**NOTE : 10+2 (Sc.)+DPT can directly join 2nd Year of BPT. For this, 20 seats are reserved.**

- **Diploma in Physiotherapy (DPT)**

Eligibility : 12th pass in Science stream with Physics, Chemistry and Biology

Duration : 2 Years      Intake : 60 seats

## DEPARTMENT OF MEDICAL LABORATORY TECHNOLOGY

- **M.Sc. in Medical Laboratory Technology (MMLT)**

Eligibility : BMLT Pass or Equivalent

Duration : 2 Years      Intake : 40 seats

- **B.Sc. in Medical Laboratory Technology (BMLT)**

Eligibility : 12th pass in Science stream with Physics, Chemistry and Biology

Duration : 3 Years      Intake : 75 seats

**NOTE : 10+2 (Sc.)+DMLT can directly join 2nd Year of BMLT. For this, 20 seats are reserved.**

- **Diploma in Medical Laboratory Technology (DMLT)**

Eligibility : 12th pass in Science stream with Physics, Chemistry and Biology

Duration : 2 Years      Intake : 100 seats



# Details of Master Degree Courses -

## MASTER DEGREE IN PHYSIOTHERAPY

<b>Name of the course</b>	: Master of Physiotherapy (MPT)
<b>Duration</b>	: 2 Years
<b>Eligibility</b>	: BPT Pass
<b>Seat capacity</b>	: 40 nos.
<b>Future Scopes</b>	: <ol style="list-style-type: none"><li>1. Guaranteed Job in Hospitals &amp; Gyms etc. as Physiotherapist or Physiotherapy Doctor</li><li>2. Job in Paramedical Colleges/Institutions as an Assistant Professor / Lecturer etc.</li><li>3. After passing out of the course, the student can also join Ph.D. course for further study.</li><li>4. One can open his/her own Physiotherapy chamber and clinic.</li></ol>
<b>Fee Structure</b>	: For Fee structure please visit our website <a href="http://www.geanationalcollege.com">www.geanationalcollege.com</a> OR Write a message as "FEE ..... (course name)" and send it to our WhatsApp number 9864044656 / 9864013210. Our officials will reply you immediately.
<b>Syllabus</b>	: Syllabus will be provided by the College at the time of starting the classes.
<b>Examination &amp; Certification</b>	: Examination & Certification will be done by "Srimanta Sankaradeva University of health Sciences" (SSUHS). SSUHS is the only health University of Government of Assam.

## MASTER DEGREE IN MEDICAL LABORATORY TECHNOLOGY

<b>Name of the course</b>	: M.Sc. in Medical Laboratory Technology (MMLT)
<b>Duration</b>	: 2 Years
<b>Eligibility</b>	: BMLT Pass
<b>Seat capacity</b>	: 40 nos.
<b>Future Scopes</b>	: <ol style="list-style-type: none"><li>1. Guaranteed Job in Hospitals &amp; Diagnostic Centers as Laboratory Officer/Technician, Researcher, Supervisor, Manager, Consultant, etc.</li><li>2. Job in Paramedical Colleges/Institutions as an Assistant Professor / Lecturer etc.</li><li>3. After passing out of the course, the student can also join Ph.D. course for further study.</li><li>4. One can open his/her own diagnostic centre.</li></ol>
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# Details of Bachelor Degree Courses -

## BACHELOR DEGREE IN PHYSIOTHERAPY

<b>Name of the course :</b>	<b>Bachelor of Physiotherapy (BPT)</b>
<b>Duration</b>	: 4 Years (6 months internship)
<b>Eligibility</b>	: 12th pass in Science stream with Physics, Chemistry & Biology subjects OR above. Arts and Commerce stream students need not to apply. <b>NOTE: 10+2 (Sc.)+DPT can directly join 2nd Year of BPT. For this, 20 seats are reserved.</b>
<b>Seat capacity</b>	: 75 nos.
<b>Future Scopes</b>	: 1. Guaranteed Jobs in Hospitals, Rehabilitation Centres, Gyms etc. as Physiotherapist. 2. Jobs in Paramedical Colleges/Institutions as a Lecturer/Tutor etc. 3. One can open his/her own Physiotherapy chamber and clinic.
<b>Fee Structure</b>	: For Fee structure please visit our website <a href="http://www.geanationalcollege.com">www.geanationalcollege.com</a> OR Write a message as "FEE ..... (course name)" and send it to our WhatsApp number 9864044656 / 9864013210. Our officials will reply you immediately.
<b>Examination &amp; Certification</b>	: Examination & Certification will be done by "Srimanta Sankaradeva University of health Sciences (SSUHS)". SSUHS is the 1st and only Government health University of Assam.

## BACHELOR DEGREE IN MEDICAL LABORATORY TECHNOLOGY

<b>Name of the course :</b>	<b>B.Sc. in Medical Laboratory Technology (BMLT)</b>
<b>Duration</b>	: 3 Years
<b>Eligibility</b>	: 12th pass in Science stream with Physics, Chemistry & Biology subjects OR above. Arts and Commerce stream students need not to apply. <b>NOTE: 10+2 (Sc.)+DMLT can directly join 2nd Year of BMLT. For this, 20 seats are reserved.</b>
<b>Seat capacity</b>	: 75 nos.
<b>Future Scopes</b>	: 1. Guaranteed Job in Hospitals & Diagnostic Centres as Laboratory Officer/Technician, Researcher, Supervisor, Manager, Consultant, etc. 2. Job in Paramedical Colleges/Institutions as a Lecturer/Tutor etc. 3. One can open his/her own diagnostic centre.
<b>Fee Structure</b>	: For Fee structure please visit our website <a href="http://www.geanationalcollege.com">www.geanationalcollege.com</a> OR Write a message as "FEE ..... (course name)" and send it to our WhatsApp number 9864044656 / 9864013210. Our officials will reply you immediately.
<b>Examination &amp; Certification</b>	: Examination & Certification will be done by "Srimanta Sankaradeva University of health Sciences" (SSUHS). SSUHS is the 1st and only Government health University of Assam.



# Courses - Recognition, Duration & Eligibility



## Approved by -

Director of Medical Education, Govt. of Assam  
Department of Health & Family Welfare  
Government of Assam



## Affiliated to -

Srimanta Sankaradeva University of Health Sciences  
A full-fledged Government University of Assam.



## 2 Yrs. Govt. Para Medical Diploma in MEDICAL LABORATORY TECHNOLOGY

- Name of the course** : Diploma in Medical Laboratory Technology (DMLT)
- Duration** : 2 Years
- Eligibility** : 12th pass in Science OR above. Arts and Commerce students need not to apply.  
Note : Only those students are allowed to take admission who have passed 12th examination with Physics, Chemistry and Biology.
- Seat capacity** : 100
- Future Scopes** : Guaranteed Job in Hospitals as Laboratory Technician, Researcher, Supervisor, Manager, Consultant, etc. anywhere in India. Also one can open one's own diagnostic centre.

## 2 Yrs. Govt. Para Medical Diploma in PHYSIOTHERAPY

- Name of the course** : Diploma in Physiotherapy (DPT)
- Duration** : 2 Years
- Eligibility** : 12th pass in Science OR above. Arts and Commerce students need not to apply.  
Note : Only those students are allowed to take admission who have passed 12th examination with Physics, Chemistry and Biology.
- Seat capacity** : 60
- Future Scopes** : Guaranteed Job in Hospitals as Physiotherapist. Also one can open one's own Physiotherapy clinic.



# Syllabus - DMLT

## Curriculum : First Year

1. Anatomy
  - Preparation of Slide
  - Normal Tissue preparation
  - Preparation of Block.
2. Physiology
  - Microscope
  - Laboratory arrangement procedures
  - Physiology of Blood.
3. Biochemistry
  - Laboratory Procedures
  - Reagents
  - Blood Biochemistry
  - Analysis of Urine, serum and other Body Fluids
  - Modern instruments in Biochemistry, methodology of uses
4. Pathology
  - Blood Drawing procedures
  - Hazards of Blood handling and methods of self and patient protection.
  - Histopathology
  - Hematopathology
  - Immunohistochemistry

- Molecular Biology
  - Cytopathology
  - Cytogenetics
5. Blood Bank
    - Blood bank techniques and knowledge about instruments
    - Anticoagulants
    - Record keeping
    - Donor counseling including Donor motivation
    - Hazards of Blood transfusion
    - General physical examination procedures : recording of pulse, BP, height, weight etc.
    - Blood grouping and cross matching.
  6. Microbiology
    - Media preparation
    - Principles of staining
    - Plating of samples
    - Sterilization
    - Serology
    - Bacteriology

## Curriculum : Second Year (Hands on Training)

1. Central Clinical Laboratory
  - Outdoor :
    - Proper labeling and preservation of the specimens
    - Methods of collection of blood for different types of investigation
    - Different anticoagulants, instruments apparatus
  - Indoor :
    - Knowledge of instruments, apparatus including analyzer used in indoor.
    - Different staining and their composition and uses.
2. Histopathology
  - Knowledge of preparation of different fixative & their composition
  - Knowledge of tissue processing
  - Different methods of tissue staining
  - Preparation of different staining
3. Cytology
  - Preparation of patient
  - Specimen collection and preservative
  - Instruments and apparatus
  - Staining preparation of procedures
4. Hematology
  - Sample collection
  - Different hematological procedures of staining
  - Different types of special stains
  - Knowledge of bone marrow staining
5. Meseum
  - Different types of solutions for preservation of specimens
  - Steps to preserve the specimens & their maintenance

06. Blood Bank
  - Preparation of a donor
  - Blood pressure, pulse record
  - Knowledge of blood groups and cross matching
  - Method of blood collection
  - Sterilization
  - Blood donation camp
07. Microbiology
  - Bacteriology Section
  - Sample collection
  - Sample plating
  - Direct smears
  - Gram staining
  - ZN staining
  - Culture and Sensitivity
  - Reporting
08. Media and Sterilisation
  - Sterilisation - Different procedures and disinfections
  - Preparation of media
  - Dispensing of media
09. Clinical Microbiology
  - Sample collection
  - Serology
  - ICTC
  - Emergency lab for malaria
10. Biochemistry
  - Collection and preparation of specimens
  - Knowledge about different types of reagents used for different tests
  - Knowledge about equipments

# Syllabus - DPT

## Curriculum : First Year

1. Anatomy
  - Musculoskeletal System and Joints
2. Physiology
  - Nervous System and Neuromuscular Transmission
  - Muscle Physiology
  - Blood
3. Psychiatry
  - Basic of Clinical Psychology
4. Medicine
  - Medical conditions requiring Physiotherapy
  - Geriatrics
5. Surgery
  - General principles of wound and injury management
  - Physiotherapy in surgical conditions
6. Orthopaedics
  - Clinical Orthopedics
  - Physiotherapy in Orthopedics
  - Rehabilitations
7. Neurology
  - Diseases of Nerve and Muscle
  - Physiotherapy in Neurology

08. Neurosurgery
  - Physiotherapy in Neurosurgery
09. Cardiology
  - Physiotherapy in Cardiothoracic conditions
10. Physiotherapy
  - Exercise
  - Electrotherapy
    - a) Transcutaneous Electric Nerve Stimulator (TENS)
    - b) Percutaneous Electric Nerve Stimulator (PENS)
    - c) Minimally Electrical Nerve Stimulus (MENS)
  - Heat Therapy
    - a) Short Wave Diathermy (SWD)
    - b) Microwave Diathermy (MWD)
    - c) Ultrasonic
    - d) Infra Ray
11. Sona Bath
12. Laser Therapy
13. Computerrized Intermittent Traction Kit
14. Shoulder Exercise Wheel Abduction Frame

## Second Year (Hands on Training)

1. Cardio - Thoracic
  - Exercise tolerance testing
  - Aerobic Exercises
  - Breathing Exercises
  - PNF - Breathing
  - Post meal Drainage
  - Auscultation & Palpation of pulses and heart sound
  - Pre & Post operative management
2. Nerology
  - Mat exercises
  - PNE techniques
  - Gait training
  - Ordination and balance training
  - Sensory examination and rehabilitation training
  - Nerve rehabilitation education
3. Gynecology & Obstetrics
  - Pelvic floor exercise
  - Pre & Post nasal exercise
  - Breathing and Relaxation techniques
4. Medicine
  - Breathing exercise
  - Spirometry

- Postural Drainage
  - Aerobic exercise
5. General Surgery & Plastic Surgery
    - Pre & Post surgical management
    - Pain control
    - Management for burn condition
    - Patient Management after skin grafting
  6. Paediatrics
    - Management for common condition like :
      - a) Cerebral palsy
      - b) Meningitis
      - c) Respiratory conditions
      - d) Congenital deformities
  7. Orthopaedics
    - Mobilisation and Manipulation
    - Stretching
    - Strengthening exercise
    - Gait training
    - Management for pre and post surgical condition
  8. PMRT
    - Application of electrotherapy equipments in various conditions



# Scope & Career Opportunities of Medical Lab Technology

## Careers in Medical Lab Technology

Medical Laboratory Technology, also called Clinical laboratory science is an allied health profession which is concerned with the diagnosis, treatment and prevention of disease through the use of clinical laboratory tests. These tests help doctors to detect, diagnose and treat diseases. A Medical Laboratory Technologist (MLT) do these tests by analyzing body fluids, tissues, blood typing, microorganism screening, chemical analyses, cell counts of human body etc. They play an important role in collecting the information's needed, sampling, testing, reporting and documentation of these investigations. They determine the presence, extent or absence of disease and provide data needed to evaluate the effectiveness of treatment.

There are two levels of medical laboratory workers –

- \* Technicians
- \* Technologists

Medical technicians do routine laboratory testing manually according to instructions. They work under Technologists or supervisors. Technicians may prepare specimens and operate machines that automatically analyze samples. In addition to running tests, technicians set up, clean, and maintain laboratory equipment, such as centrifuges, microscopes, etc. They also prepare standard solutions for use in the lab. This involves measuring and mixing the correct amount of various chemicals.

Medical technologists work in five major areas of the laboratory ie, in Blood banking, Clinical Chemistry (chemical analysis of body fluids), Hematology (blood related), Immunology (study of immune system) and Microbiology (study of bacteria and other disease organisms). They also work in the areas of cytotechnology (study of human tissue), phlebotomy, urinalysis, coagulation, parasitology and serology. Phlebotomists draw and test blood whereas Blood bank technologists determine correct blood types for transfusions. Histology technicians cut and stain tissue samples. Medical technologists have more training and job responsibilities. They perform complex tests such as microscopic examinations of tissues, blood and other body fluids to detect evidence of disease and detect the presence of bacteria, fungi, parasites, etc and chemical tests to determine blood cholesterol levels. They also match blood samples for transfusions and test drug levels in blood to determine how patients are responding to medications. They are often responsible for making sure that testing is done accurately. In some labs, technologists conduct research under the supervision of medical researchers.

## Job Prospects and Career Options

The career of a lab worker depends on academic and technical skills. A certified medical laboratory technician may find a challenging career in a hospital, minor emergency centers, private laboratory, blood donor centers, doctor's office or clinics. A technician become a technologist through further education and work experience.

Laboratory technologists can assist the doctors in taking samples, centrifuging, making slides, using specified stains etc, under proper guidance. As such, the demand for laboratory technologists will always increase since the number of hospitals, specialty hospitals, laboratories, etc. are increasing. Job opportunities are also available in research laboratories and military service. Technologists can advance to supervisory or management positions in labs and hospitals. They can also work as Laboratory manager/Consultant/supervisor, health care Administrator, Hospital Outreach coordination, laboratory information system Analyst/Consultant, educational consultant / coordinator/ director, health and safety officer etc.

Additional opportunities are available in molecular diagnostics, molecular biotechnology companies and in vitro fertilization laboratories as well as in research labs. In the clinical areas, drug testing, therapeutic drug monitoring and biogenetics are just a few of the specialties with openings. In industry, medical technologists are needed for positions in product development, marketing, sales, quality assurance, environmental health and insurance, among others. The Medical Laboratory Technologists/technician may be assigned to a specialized area of work in a large medical lab. In small labs, they may perform a variety of tests or all areas of lab work. Some of the duties of an MLT include collecting blood samples from patients and identifying abnormal blood cells, assuring safe transfusion of blood products, culturing micro-organisms to determine their identity and susceptibility to antibiotics, detecting a cancerous tumor with DNA technique, performing cultures and identifying bacteria and viruses, analyzing body fluids to determine chemical and biological components. Assuming administrative functions relative to reporting and recording results of tests conducted in the laboratory, maintaining accurate clinical records, selecting and evaluating laboratory equipment and new test methodologies and performing other duties as may be assigned by the laboratory supervisor. In large labs and hospitals, they may have to work in shifts on holidays and weekends or sometimes be on call for night duty.

## Salary

Medical lab Technologists/Technicians get a good salary in government and private hospitals, clinics and diagnostic laboratories, etc. Employment of clinical laboratory workers is expected to increase fast in the near future.



# Scope & Career Opportunities of Physiotherapy

## Introduction

The history of Physiotherapy or Physical Therapy can be traced back to ancient Greece in the era of Hippocrates. Considered one of the oldest methods to cure various physical ailments, physiotherapy has evolved from simple massage to a complex assortment of therapies - now, it has multiple and specialized applications. Making a career in Physiotherapy is a wise decision as the scope it covers is widening up and expected to offer numerous job options. Considered an allied health professional service, physiotherapy has a vast range of career options to choose. People can either work in India or go abroad and flourish their career in physiotherapy. Whereas a course in India costs just a fraction of the USA or UK, earning potential is immense for the professional.

## Start Early

Physiotherapy is like any game or sports. Early starters have advantages than late starters. So, if you wish to work as a physiotherapist start at an early age. Building a shaped and flexible body puts you at advantage point. Start knowing about the human anatomy and the way the bones, muscles and nerves move – it will make you understand the subject at later phase. Later on you can specialize in any areas including pediatrics, geriatrics, orthopedics, sports physical therapy, neurology, clinical electrophysiology, ardiopulmonary therapy, etc.

## Is it the Right Career for Me?

From the perspective of earning, physiotherapy is a very good option; therefore, one does not need to worry about it. Job is quite challenging for a physiotherapist but is profitable too.

## Job Prospects

Due to mechanization and sedentary lifestyles, people face common muscular skeletal problems which include issues such as backache, stiff shoulders and neck, osteoarthritis knee, etc. In curing out the disorders, the physiotherapists work as wonderfully as the mainstream doctors. Physiotherapy can be considered a health profession which is concerned with maximization of mobility and quality of life by implementing clinical reasoning. Physical therapists have ample job prospects in Hospitals, Nursing homes, Residential homes, Rehabilitation centers, Private offices such as Private practices or Private clinics, etc. Additionally, a person with qualification in physiotherapy can work at Out-patient clinics, Community health care centers or Primary health care centers, Fitness centers or Health clubs, Occupational health centers, Special schools and Senior citizen centers, etc. Notwithstanding, job prospects for physiotherapists are bright in various sports centers, teaching, working in foreign countries with companies, N.G.O.s, etc.

## Market Watch

As various health centers, fitness centers, wellness centers, spas, etc. are coming up in big way, the prospects of career in physiotherapy seem positive. Major recruiters are hospitals which try to offer alternative medical service and physiotherapy is one of the most suitable and successful alternative methods to cure various ailments.

## Positives/Negatives

At times aspirants may think that it is not as attractive as software engineering or medical science or law; however, the physiotherapist's job offers job satisfaction. Therefore, if you are looking for job satisfaction, opt for physiotherapist's job. Nonetheless, salary packages too are not low that it may sound unattractive. A lot of earning potential depends on the person and knowledge of Physiotherapy. Despite a challenging task ahead, a candidate can carve a niche for himself or herself with excellent knowledge of Anatomy, Biochemistry, Exercise Therapy, Physiology, Electrotherapy, Physical Fitness & Yoga, Pharmacology, Kinesio- Therapeutics, Psychology & Psychiatry, Pathology, Microbiology, etc. An effective method to carve a niche in the profession is to offer something positive and effective as well as suitable.

## Different Roles, Different Names

Physiotherapy is such a discipline where a person can perform various jobs. The job of a physiotherapist has traits of a professional who works as preventive, restorative and rehabilitative. He or she is an instructor in a health center or wellness center; he or she is a sort of doctor in some hospital. He or she is destined to various roles to perform depending upon the circumstances in front of him.

## Top Companies

All major top order hospitals and health centers offer attractive jobs to physiotherapists. Some top notch fitness centers in India such as Talwalkars Pantaloon Fitness Pvt Ltd and Intellectual Resource Training Private Limited attract best in the industry talent. HelpAge India, Medybiz Pvt Ltd, Hosmat Hospital, Apollo Hospital, Fortis Hospital, etc. too are offering physiotherapy services with the help of trained physiotherapists.



# Other Informations, Rules & Regulations

## Admission Process (Helpline Number : 9864044656, You can Call us or WhatsApp your query) :

(Only Science Stream students are eligible for admission for all these courses. Arts and Commerce students need not to apply)

### ADMISSION PROCESS :

- (1). Through OFFLINE ADMISSION process                      (2). Through ONLINE ADMISSION process

### STEPS FOR "OFFLINE ADMISSION" PROCESS :

The Applicant need to submit the filled-up "Admission Form" along with following documents and "Admission Fee". After Verification of Original Documents and other Admission formalities, our officials will issue you the "Original Money receipt" along with "Confirmation Letter of Admission".

- (1). Mark-sheets and Pass Certificate from 10th onwards,                      (2). Caste Certificate, if available  
(3). Passport size photograph (4 copies)                      (4). Birth Certificate, if available

### STEPS FOR "ONLINE ADMISSION" PROCESS :

Step 1 : Send the following documents to our "Email" or "WhatsApp" number. ("WhatsApp" no. 9864044656 & Email : director.gea@gmail.com)

- (1). Mark-sheets and Pass Certificate from 10th onwards,                      (2). Caste Certificate, if available  
(3). Passport size photograph (4 copies)                      (4). Birth Certificate, if available

Step 2 : After sending above document to us, you have to pay the admission fee through the link which will be sent to you or through our "Online Payment Gateway" facility available at our website or through "Bank A/C Transfer Facility" to any of our bank accounts mentioned in this booklet.

Step 3 : After completion of step 2, you need to call us at 9864044656 on the same day to receive your "Confirmation Letter of Admission" and "Money Receipt". Our officials will send you the following documents to your address via "Speed Post" on the same day.

- (1) Confirmation letter of your admission                      (2). Original Money Receipt                      (3). College prospectus                      (4). Admission Form

You have to submit the "admission form" to our office at the time of starting your classes. Verification of Original Documents will also be done at the same time.

## **Uniform :**

Wearing uniform is compulsory inside College for all students from Monday to Saturday. The dresses for boys & girls are -

### **For Boys :**

1. White shirt
2. Black trouser
3. Red Necktie
4. White Coat (medical coat)
5. Black formal shoe (casual shoes are not allowed)

### **For Girls (Option 1) :**

1. White shirt
2. Black trouser
3. Red Necktie/scurf
4. White Coat (medical coat)

### **For Girls (Option 2) :**

1. White Churidar with Red churni
2. White Coat (medical coat)

## **Hostel :**

Separate boys hostel and girls hostel are available with all modern facilities and securities. These hostels are fully secured from all aspects. A senior hostel warden is available for proper supervision and controll of these hostels. Parents and guardians need not to be worried about their children while they are in College hostel.

## **Student ID Card :**

Identity Cards are issued to the newly admitted students on payment of Rs.100. A separate form needs to be filled up by the students along with a passport size photograph. Proof of "Postal Address" (photostat copy) is to be attached with the form.

## **College Holidays :**

The College has its own "holiday list" which is given in the yearly Calendar. Students and parents are requested to follow that list.

## **Scholarship :**

The College provides assistance to the students to avai various State and Central governements scholarships including local scholarships from MLA, Councils, etc. In this regard, students are required to approch the college authority with proper documents.

## **Education Loan :**

The College provides assistance to the students to avai Educational Loan. In this regard, students are required to approch the college authority with proper documents.





# Other Informations, Rules & Regulations

## Compulsory Attendance for students:

Classes are provided on regular basis from Monday to Saturday except holidays which is mentioned in the college calendar. Internship may not be allowed to those students whose attendance is very poor in "Daily Classes" and also in regular "Exams/Tests". Good number of class attendance is compulsory to appear in the "final examination". The minimum percentage of attendance which is compulsory to appear in the exam is fixed by the University/College authority.

## Spoken English, Personality Development & Interview Winning Classes :

The College offers a special course (free of cost) for "Spoken English, Personality Development & Interview Winning Techniques" to every batch. This course is designed in such a way that the students of all medium get interested in the subject and are benefitted from the subject. This subject is given to each and every student, so that they can improve their english and communication skill. Now a days communication skill is the most important skill in order to be successfull in today's competitive world and the College takes care of the same.

## Presentation Classes for the students :

Presentation is an indispensable segment of our training methodology. In this segment, every student is given a topic and the students need to collect information on that particular topic and he or she has to give a presentation on the given topic. Through this, students can learn how to search information on a particular topic and by giving such presentation in front of teachers and other students, they can increase their confidence, smartness and improve their presentation skill and communication abilities. Normally every student has to give one or two presentation on every subject in a month.

## GEA Cafeteria :

A well equipped spacious cafeteria / canteen is available in the college campus to provide hygienic breakfast, lunch, tea and snacks to students, lecturers, staff members, parents and guardians.

## Ragging - A punishable offence :

Students should abide by rules, conduct and discipline inside the college and in public places. Ragging is strictly prohibited here. If anybody is found guilty in any ragging incident, one shall be liable to expulsion and legal action.

## Audio-Visual Class Room :

Audio-Visual class rooms are available in the College equipped with projectors, audio systems and computer systems. These rooms are basically used for various presentations to students for better understanding. Students need to give regular presentations once in every week on their respective subjects.

## Placement - the last but a very important part of our Education :

GEA National College has a full-fledged placement division which assists the students in finding jobs after they successfully complete a course. The placement division is in-touch with prospective employers round the year and identifies job openings and industry trends and guides GEA'ians meaningfully. The placement division organises both On-Campus and Off-Campus Interviews. The placement cell helps our students, not only to get a good job, but also to become self employed.

During the course tenure the students need to attend a special training programme which is provided by the college free of cost. In this training, students are trained how to face interviews with other necessary information. The trainer will guide the students how to choose a career suited to their individual aptitude in this programme. To avail placement facility, students are required to have 80% of class attendance and they need to attend the placement training which is provided by the college free of cost.













# GEA NATIONAL COLLEGE



অসম চৰকাৰ



GOVERNMENT OF ASSAM

**Approved by**

Director of Medical Education  
Dptt. of Health & Family Welfare  
Dptt. of Higher Education

**Associated to**

Srimanta Sankaradeva University  
of Health Sciences

A full fledged Govt. University of Assam

# CHRISTIAN BASTI, GUWAHATI, ASSAM. TEL

044656

[www.geanationalcollege.com](http://www.geanationalcollege.com)

## Frequently Asked Questions (FAQ)

Question-1 : Are the courses offered by GEA National College purely "Government Courses"?

Answer : Yes, all the courses mentioned in this booklet are purely "Government courses".

Question-2 : After completion of these courses will the passed out students be eligible for Govt. Jobs?

Answer : Yes, after completing these courses, students are eligible for all kinds of state and central Government Jobs.

Question-3 : Are these courses under "Srimanta Sankaradeva University of Health Sciences"?

Answer : Yes, these courses are under Srimanta Sankaradeva University of Health Sciences, a full-fledged Government University of Assam.

Question-4 : Are these courses under Gauhati Medical College (GMC)?

Answer : No, these courses are under "Srimanta Sankaradeva University of Health Sciences".

The courses under GMC and the courses under our college are 100% same. Actually, GMC and GEA National College, both are running the same courses under Srimanta Sankaradeva University of Health Sciences (SSUHS).

Question-5 : Is it possible to make "Online payments" or deposit an amount in any bank from the home/native place of a student?

Answer : Yes, **\*Online payments can be made. For this, kindly follow the following steps.**

(1) Go to our website "[www.geanationalcollege.com](http://www.geanationalcollege.com)"

(2) Click on "**Online Fee Payment**" option which is available at the top of the right side.

(3) Some more steps need to be followed to make the payment thereafter. These steps are very easy. Just follow them. Using this option, one can pay through **Debit card/Credit card/Netbanking/RTGS/NEFT**, etc.

**\*Also students can deposit their fee at the following bank accounts from their native/home places.**

(1) STATE BANK OF INDIA

Account Name: GEA GROUP OF INSTITUTIONS

Account No.33448187847

IFS Code : SBIN0000221

(3) ICICI BANK

Account Name: GEA GROUP OF INSTITUTIONS

Account No.245501000099

IFS Code : ICIC0002455

(2) HDFC BANK

Account Name: GEA NATIONAL COLLEGE

Account No.06311450000115

IFS Code : HDFC0000631

(4) AXIS BANK

Account Name: GEA GROUP OF INSTITUTIONS

Account No.912010004662904

IFS Code : UTIB0001442

AFTER "BANK DEPOSIT", IMMEDIATELY CALL & SMS US AT 9864044656 & 9864013210.

**\*Apart from both the options, one can pay their fee through our Paytm number 9864044656.**

Question-6 : Is it compulsory to appear in the examinations and/or class-tests which are conducted by the College? If some one do not appear in an examination/class-test then what will happen?

Answer : Yes, it is compulsory to appear in all the exams, specially, unit tests, trimesters & semester exams. The marks given in these exams will be carried forward to the final result of the student.

If someone do not appear in an exam/class-test, then zero (0) marks will be carried forward to the final result of that student.



**GOOD EDUCATION ALWAYS**



কৈৱল জ্ঞান নহয়  
হাজাৰ হাজাৰ উদ্ভাৱকৰ বিশ্বাস  
"GEA NATIONAL COLLEGE"

*Barsha Rani Bishaya*  
বৰ্ষা ৰানী বিষ্য়া

**GEA NATIONAL COLLEGE**

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**paytm**

WhatsApp



**9864044656**

**[www.geanationalcollege.com](http://www.geanationalcollege.com)**

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