PhD. in Clinical Research

Campus
Critchlow, Woolford Avenue, Georgetown, Guyana, South America
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Study Centre
Apheta Institute of Clinical Research
201, 2nd Floor, South Ex. Tower, Masjid Moth, South Ex. Part – 2, New Delhi – 110049
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Website: www.aicrindia.com
Phone: +91 11 45782279
ABOUT TEXILA AMERICAN UNIVERSITY

Texila American University (TAU) is located in Guyana, the only English-speaking country in South America. TAU offers Health Science programs with a high level of professionalism, exactness and problem solving skills, upon which the foundations of specialist training and an independent medical practice can be built, which facilitates further education and development of their knowledge throughout their life.

The curriculum at the TAU is structured after the best U.S. medical schools. The academic program is both accelerated and rigorous, with a focus on preparing students for licensure in the United States, Caribbean and India. The Program curriculums are designed to reinforce the enduring tenets of the practice of medicine and ensure the ability of understanding and handling the changing demands of health service in the various fields of society.

Students at TAU are presented with, and challenged to adopt, the ethics and values that apply to all health professions. Putting the patient first, improving the lives of the underserved, emphasizing health care for rural populations, celebrating diversity wherever we find it and developing cultural competency are all essential to the daily practice of health professionals.

In clerkships students acquire in-depth clinical experiences to sharpen their communication and healthcare problem-solving abilities. Students are advised to participate in an outreach & volunteer programs where they receive practical training in delivering health care services.

TAU offers full-time programs in MD-Medicine, Dentistry, Nursing, Pharmacy and other Allied Health Science programs. TAU also offers PhD in Clinical Research through online learning. TAU operates on a system in which classes begin in January, June and October.

ABOUT GUYANA

Living in Guyana is a wonderful experience and would be one of the finest environment and climatic conditions for your studies. Guyana is an amazing blend of the Caribbean and South America and is the only English speaking Country in South America. The beautiful country is a tropical paradise and has much to offer; adventure, tranquility, history, beauty, nature and an inimitable blend of warm and friendly people with the richness of many cultures.

The Republic of Guyana lies in the north-east of South America, north of the equator. It is bordered by Suriname on the east, Brazil on the south and Venezuela on the west, and to the north and east, extends to the North Atlantic Ocean.
The coastal plain, along which the majority of the population lives, is flat but the country is famous for its mountain ranges, lush forests, vast savannahs and above all the majestic Kaieteur Falls with an overall drop of 251 meters and a sheer drop of 226 meters. It is richly endowed with natural resources, extensive areas of fertile agricultural land, vast stretches of tropical hardwood forests most of which are still untouched, a rich fishing and scrimping continental shelf, a wide variety of minerals (including gold, diamond and some semi-precious stones, bauxite and manganese) impressive resources for hydropower generation and potential for petroleum

**WHY TAU**

- Texila American University is recognized by NAC and is also going for various accreditations worldwide like WHO, FAIMER and IMED
- Texila American University is having MOU’s with various CRO’s and hospitals in USA and Brazil. Hence the university delivers the not only the course but organize clinical rotation for the student if needed
- Texila American University provides dual degree programs in association with University of Guyana which is the top ranked university in Guyana
- Mou’s are signed with hospitals like Georgetown Public Hospital Corporation (GPHC), which is rated as the best hospital in the country
- Certification by a premier university recognized globally
- Courses designed and developed by experts in clinical research
- Teaching by experienced professionals from industry and academia

**SELECTION PROCESS /CRITERIA**

Will be based on Merit / Interview:

The selection process will be open, transparent and accountable. Every applicant who fulfils the eligibility criteria will be given an opportunity to compete for the available seats.

**TEACHING METHODOLOGY**

The courses will have regular classroom lectures, seminars, readings, tutorials, group discussions, assignments, case presentations, home work and lectures by eminent guests from academia and industry.
EVALUATION CRITERIA

1) Internal Assessments:

Internal assessment comprises of two internal tests and one assignment in each subject. Maximum weight age for internal assessment is 40% of the total marks in each subject.

2) Course End Final Examination:

The weightage for the Final examination will be 60% of the total marks for each subject.

AWARD OF CERTIFICATES

Candidates who successfully complete the course and pass the examination will be awarded relevant Certificates by Texila American University.

PhD. in Clinical Research

Duration: 36 Month (6 Semester)

Total course Fees: 7200 USD (2400 USD/Year) Scholarship is available on the basis of their experience, qualification and personal interview

Registration Fees: 220 USD which is included in total course fee.

Mode of Learning: Online Learning with the help of Webinars, Video Lectures and Audio Lectures. The guide will be provided to the students who will guide through online and chat.

Credit: 90 (60 Theory + 30 Thesis)

Credit Distribution for theory subject: 40 Credit from basic and core subject and 20 Credit from Optional Subject

Eligibility: PG Students of Medicine / Life Science / Pharmaceutical / Nursing / Allied Health Science / Clinical Research.

Process of Application: Eligible candidate can download the application form from the website


After filling the application form student need to send this form and copy of the academic certificate till master degree along with mentioned registration fee by cash or DD in
Favor of “APHETA EDUCATIONAL TRUST, NEW DELHI” to the following address.

APHETA INSTITUTE OF CLINICAL RESEARCH  
No. 389, South Ex. Tower, 201, 2nd Floor  
Masjid Moth, South Ex. Part II  
New Delhi – 110049, India  
Ph. No - 011-45782279

Candidate can also pay the registration fee by using net banking or Bank Transfer. The details are as follows:

- Bank Name: HDFC Bank  
- A/C Name: Apheta Educational Trust  
- A/c No.: 03192000008789  
- IFSC code: HDFC0000319  
- Branch: South Extension part - 2, New Delhi, India

The certificate will be sent to the Texila American University for the confirmation of the eligibility.

On confirmation letter which will be received in a week from the Texila American University Student need to submit the remaining fee of 1st year before commencement of the course.

Please check the following document before sending the application:

1) 4 passport size Photographs  
2) Curriculum vitae (signed by the candidate)  
3) Filled application form  
4) Registration Fee (As mentioned above)

Following Documents to be notarized and the true copy of the notarized are to be sent along with above mentioned documents:

1) O level  
2) A level  
3) Passport-copy  
4) Bachelors transcripts  
5) Bachelors certificate  
6) PG transcripts  
7) PG certificate  
8) Any other certificate

**Notarization:** The documents will be made a copy and attested by a gazetted officer / public authority / Lawyer.
SYLLABUS FOR PhD.

1. Biomedical - Pathophysiological Basis of Diseases: (3 Credits)

Pathophysiology of Diseases of, Neurological, Cardiovascular Haematological, Respiratory, Renal, Gastrointestinal, Endocrine system, Lymphatic system, musculoskeletal system, Reproductive and Endocrine system

2. Pharmacology and Pharmacotherapeutics –I: (3 Credits)

Basic Principles of Pharmacology, Mechanism of Drug action, Adverse Drug Reactions, Pharmacogenetics and Pharmacogenomics. Drugs acting on Autonomic nervous system, Central nervous system, Cardiovascular, Haematological, Respiratory, Gastrointestinal, Renal, Endocrine Lymphatic, Musculoskeletal Reproductive systems. Pharmacology of Autocoides

3. Pharmacology and Pharmacotherapeutics – II: (3 Credits)

Pharmacology of Antimicrobial and Chemotherapeutic Agents, Antineoplastic agents, Immunosuppressants and Immunostimulants, Hormones and Antagonists, Dermatologic and Ocular agents.

4. Drug Discovery and Drug Development Process: (2 Credits)


5. Fundamentals of Biostatistics: (1 Credit)

Fundamentals of Statistical Concepts applicable to Medical and Clinical Research. Application of various Statistical Analysis Methods, Research Designs to Data commonly encountered in the Biological, Clinical, and Medical studies and Research. Basic concepts in Statistics which includes Sampling procedures, Presentation of Data, Descriptive and Inferential Statistics, Probability, Confidence Intervals, Hypothesis testing, Regression, Parametric and Non-parametric methods and Design of Experiments.

6. Introduction to Clinical Trials: (2 Credits)

7. Principles and Practice of Clinical Trials: (3 Credits)


8. Regulatory Affairs in Clinical Trials: (2 Credits)


9. Bioethics – Ethical Aspects of Clinical Trials. (2 Credits)


10. Clinical Data Management: (3 Credits)


11. Pharmacovigilance and Safety: (2 credits)

12. Quality Control, Audit and Inspection in Clinical Trial: (2 Credits)


13. GCP/GLP/ICH for Doctors, Pharmacists and Nurses: (2 Credits)


14. Research Project; (10 - 15 Credits):

Project Report under the Guidance of Investigator in Clinical Trial Environment.

15. Medical writing / Reporting: (2 Credits)


16. IPR - Intellectual Property Rights: (2 Credits)

IPR law in India, US, Europe and Japan. Filing and Protection of Patents, Copy Rights, Trade Marks, Copy Rights, Trade Marks, Patents etc.

17. Communication Skills: (2 Credits)

Soft Skills Training, Personality Development Training, Communication and Interpersonal Skills, Goal Setting, Public Speaking Skills, Leadership Skills. Team Building, Stress Management and Time Management

18. PK, BA, BE In Clinical Trials: (2 Credits)

19. Epidemiology: (3 Credits)


20. Molecular Biology and Biotechnology: (3 Credits)

Structure and Functions of Cell Organelles. Cell Division and Apoptosis. Structure and Properties of DNA, Discovery of DNA as the Genetic Material. Concept and Definition of the Genome, C - Value paradox, Denaturation and Renaturation of DNA, Repetitive and Non Repetitive DNA.


21. Pharmaceutical Biotechnology: (3 Credits)

Pharmaceutical Biotechnology and its future role in healthcare.


22. Computer Aided Drug Designing: (3 Credits)

Bioinformatics in Drug Development; Chemo informatics and Pharmacoinformatics. Applications of Drug Discovery and In - Silico Drug Designing Structure-based drug designing approaches: Target Identification and Validation, homology modeling and protein folding, receptor mapping, active site analysis and pharmacophore mapping, Grid maps. Ligand-based drug designing and Docking Ligand-based drug Designing approaches: Lead Designing, Combinatorial chemistry, High Throughput Screening (HTS), QSAR, Database Generation and Chemical libraries, Introduction to docking methods to generate new structure; Tools and Molecular docking programs:

23. SAS Programming: (2 Credits)

SAS procedures for Data Analysis, Data Relationships, producing data, probability, study of randomness, introduction to interference, interference for distribution, inference for proportion, inference for two way tables, inference for regression, one way and two way analysis of variance, logistic regression, parametric and non parametric tests.

24. Seminars: (1 - 6 Credits)
25. Assignments (1 - 6 credits)
## CREDIT DISTRIBUTION

### BASIC SUBJECTS

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<thead>
<tr>
<th>Code No.</th>
<th>Subject</th>
<th>Credit</th>
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<tbody>
<tr>
<td>CRB001</td>
<td>Biomedical / Pathophysiological basis of Diseases</td>
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<td>CRB002</td>
<td>Pharmacology and Pharmacotherapeutics I</td>
<td>3</td>
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<tr>
<td>CRB003</td>
<td>Pharmacology and Pharmacotherapeutics II</td>
<td>3</td>
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<td>CRB004</td>
<td>Drug Discovery and Drug Development</td>
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### CORE SUBJECTS

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<tr>
<td>CRC006</td>
<td>Introduction to Clinical trials</td>
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<td>CRC007</td>
<td>Principles and Practice of Clinical trials</td>
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<td>CRC008</td>
<td>Regulatory affairs in Clinical Trials</td>
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<td>CRC009</td>
<td>Bioethics-Ethical aspects in Clinical Trials</td>
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<td>CRC010</td>
<td>Clinical Data Management</td>
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<td>CRC011</td>
<td>Pharmacovigilance and safety Management</td>
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<td>CRC012</td>
<td>QC, Audit, Inspection in Clinical Trials</td>
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<td>CRC013</td>
<td>GCP/GLP/ICH</td>
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<td>CRC014</td>
<td>Research Project in Clinical Trials</td>
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### OPTIONAL SUBJECTS

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<td>Medical writing / reporting IPR</td>
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<td>CRO016</td>
<td>Intellectual Property Rights</td>
<td>2</td>
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<td>CRO017</td>
<td>Communication skills</td>
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<td>CRO018</td>
<td>PK,BA,BE in Clinical studies</td>
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<td>CRO019</td>
<td>Epidemiology</td>
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<td>CRO020</td>
<td>Molecular Biology and Biotechnology</td>
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<td>CRO021</td>
<td>Pharmaceutical Biotechnology</td>
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<td>CRO022</td>
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<td>CRO023</td>
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<tr>
<td>CRO024</td>
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<tr>
<td>CRO025</td>
<td>Assignments / Tutorials</td>
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For further enquiry contact on the following Address:

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