

Memorandum of Understanding

between



University of Hyderabad
Hyderabad, Telangana

and



The Apollo University
Murukambattu, Chittoor
Andhra Pradesh

Date of Entering MoU - 24th August 2022

University of Hyderabad

The University of Hyderabad, a premier institution of Post-graduate teaching and research, was established by an Act of Parliament in 1974 as a Central University. The University has 12 Schools of Study, namely School of Mathematics & Statistics, Physics, Chemistry, Life Sciences, Humanities, Social Sciences, SN School of Arts & Communication, Management Studies, Medical Sciences, Economics, Engineering Sciences & Technology, Computer & Information Sciences. Besides it has College for Integrated Studies.

1. Details of partnering Institution

1.1 National / International: State Private University

1.2 Public / Private / Industry / NGO: Private University

1.3 The Apollo University is a Private University, having its principal place of business at Murukambattu, Chittoor 517 127, India herein-after referred to as "TAU"

Government of Andhra Pradesh released a notification Ms. No 64 on 2nd November 2021 for including The Apollo University, the name and address of the sponsoring body in the schedule of Andhra Pradesh Private Universities (Establishment & Regulation) Act, 2016. The Gazette of The Apollo University as per the Andhra Pradesh Private Universities (Establishment & Regulation) Act, 2016 Andhra Pradesh Gazette Notification No. 608/ G593, Dt. 03-11-2021. Currently The Apollo University is offering undergraduate and Post Graduate programs in Technology, Management, Health Sciences, Psychology, and Social Sciences.

1.4 Teaching:

The following academic programs are offered at The Apollo University, Chittoor campus from the academic year 2022-23.

- B. Tech Computer Science and Engineering
- B.Sc. Biomedical Sciences
- B.Sc. Genetics and Molecular Biology
- B.Sc. Health Psychology
- Bachelor of Social Work
- Bachelor of Business Administration
- B. Sc. Physician Assistant
- B. Sc Medical Lab Technology
- B. Sc Imaging Technology
- B. Sc Anaesthesiology & Operation Technology
- B. Sc Renal Dialysis Technology
- B. Sc Respiratory Technology
- B. Sc. Emergency Medical Technology
- B. Sc. Optometry Technology
- M.Sc. Health Informatics and Analytics
- Master of Social Work
- M.Sc. Clinical Psychology
- Master of Public Health
- MBA (Hospital and Healthcare Management)

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1.5 Research: Some of the few areas include

- Synthesis, characterization and anti-cancer applications of rare earth metals doped gadolinium molybdate nanophosphor compound
- A longitudinal study of Chronic Kidney Disease of Unknown Etiology (CKDu) – Burden and Risk factors in Andhra Pradesh
- Design and Development of a Three-Dimensional Culture system for prostate cancer stem cells to investigate tumor angiogenesis
- Genomics and Proteomics study of non-communicable diseases in the states of Andhra Pradesh and Telangana
- Development of novel biomarkers for early detection of Kidney Diseases in the states of Andhra Pradesh and Telangana
- Mesenchymal Stem cells in Acute Kidney Injury
- Development of Nano-formulations conjugated with Piperine to enhance the bioavailability of “Vitamin A and Iron”

1.6 Industry: overview, products and services, if any and turnover
NOT APPLICABLE

2. Brief overview

The activities carried out by the Parties under this MoU may include the following;

- A. Joint research activities on topics agreed by Parties;
- B. Meetings organized to discuss specific topics and Curriculum Development;
- C. Visits of individuals or teams from one Party to the facilities of the other Party; and
- D. Transmittal of academics and Research information from one Party to the other.
- E. The Students of The Apollo University may get training at University of Hyderabad in the fields of Life Sciences and Technology.

3. Areas of collaboration

(if there are clear demarcations on the role of each institution, they can be included under the respective institution; precise objectives and avoiding generalized statements is suggested)

3.1 Broad areas of academic exchange

- Joint research projects and publications, including works of undergraduate, graduate, and doctoral students at the partner institutions;
- Joint certification programs;
- Joint conferences and workshops;
- Team taught courses, including online courses; and
- Visits by faculty, professional staff, and students.

3.2 Teaching:

The main objective of this MoU is Shifting from “my learners” to “our learners”.

The goal of a successful educational program and thus effective curriculum development should be to meet the needs and current demands of the culture, the society, and the expectations of the population being served. Therefore, curriculum development and the educational reform process continually under goes review, revision, and constant change.

Curriculum Development: Without doubt, the most important person in the curriculum implementation process is the teacher. With the knowledge, experiences and competencies, UoH Professors are central to any curriculum development effort. The Apollo University Professors will provide the structure of the curriculum, Academic fraternity of the both Parties have to try to know and develop it.

Undertaking of dissertations or projects in UoH / The Apollo University

3.3 Research:

Research Collaboration: The Teaching faculty of University of Hyderabad will act as Guest Lecturers for the students of The Apollo University, especially in the field of Life Sciences. Hearing the voices of UoH Professors, provide students not only with different points-of-view, but also with potential resources they can apply in later courses.

Across the disciplines of Life Sciences, research collaboration and interdisciplinary work between UoH and The Apollo University will address mutual contribution of Societal relevant issues, access to the data generated and sharing of the data. The research collaboration between The Apollo University and UoH means a shared responsibility for research integrity.

- Major areas of Research Collaboration
 - Genomics and Proteomics of Non-Communicable Diseases
 - Development of early detection biomarkers for Non-Communicable Diseases
 - Clinical Epidemiology of Non-Communicable Diseases
 - Stem Cells and Tissue Engineering
 - Design and Development of Biopharmaceuticals
 - Any other areas of mutual interest

- Is this research resulting in a PhD degree?

No as of now, but if a PhD degree is resulted due to the collaboration, the concerned Supervisor will be recognized as per University of Hyderabad / The Apollo University guidelines.

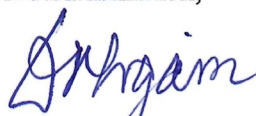
3.4 Conferences/Seminars/Exhibitions/Symposia/ Workshops/ Training Programs: (if financial implications are there, need to mention details. If made generic, then must mention that there will be an addendum to this MoU with reference to a proposed activity, giving financial details if any).

Yes, The Apollo University agrees to the Clause 3.4

3.5 Translational activity: product development and commercialization; business development

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The product development and commercialization process require effective planning and execution throughout the supply chain, and if managed correctly can provide a sustainable competitive advantage.

5 steps to develop a new product due to the Collaboration between The Apollo University and University of Hyderabad

- As a team, brainstorm and research
- Gauging the market
- Building and testing a prototype
- Taking it to market
- Ironing out the kinks

The process to develop new products is seldom without its setbacks and failures. Henceforth both The Apollo University and University of Hyderabad will be flexible and realistic in the expectations. The key of the research collaboration between The Apollo University and University of Hyderabad, is to have a firm grasp of what the market wants and is willing to pay for, and acting fast on that intelligence.

4. Duration

This MoU is for a period of **THREE** (03) years. It can be extended further by mutual consultation and agreement

5. Coordinators

5.1 UoH: Prof. P Prakash Babu, Senior Professor in the Department of Biotechnology & Bioinformatics, School of Life Sciences will serve as Coordinator.

5.2 Prof. Satyanarayana Rentala, The Apollo University, will serve as Coordinator.

The respective Coordinators of UoH and the partnering Institution shall be responsible for all the communication between the two institutions and the implementation of the proposed objectives of the MoU.

6. Administration of the signed MoU

6.1 This MoU shall be effective and will come into force from the day the two authorized signatories of both the parties formally sign the MoU document.

6.2 The authorized signatories and / or the Coordinators of UoH and The Apollo University will

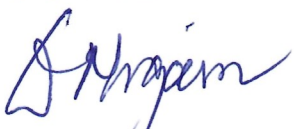
- Implement this MoU and all endeavor that derive from it.
- Develop and carry out joint plans for the implementation of the objectives of the MoU by having regular communications
- Submit yearly 'Status reports' on the implementation of this MoU.

6.3 Additional activities proposed within the framework of the general terms of this Memorandum of Understanding will be formally incorporated as an addendum to this MoU, provided the addendum is agreed to and signed by both parties.

6.4 Both UoH and The Apollo University shall inform in writing the respective communities of this MoU to draw benefits from it and to contribute towards its implementation in spirit and substance.

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7. Financial Provisions

7.1 A specific clause with financial implications must include all the details of revenue sharing and execution by the two parties.

No financial implications, as there are no joint academic programs. This MoU is solely related to academic and research exchange for the benefit of the students and the parties.

7.2 A total of (number) fellowships with financial assistance of Rs. (amount / year) will be provided by (other Institution). (If the partnering institution will award fellowships to students/researchers in UoH, the value, period and total amount must be mentioned in the MoU or as an addendum) - **NOT APPLICABLE**

7.3 If generic MoU is signed, sharing of expenditure shall be determined by the parties on a project-by-project basis and will be incorporated by reference as an addendum to this MoU.

Yes, The Apollo University agrees to the Clause 7.3

8. Termination / Amendment of MoU

8.1 Both the parties will endeavor to resolve disputes arising between them in relation to this MoU by amicable means. If this not be possible because of irreconcilable differences, then this MoU may be terminated by mutual consent of the two parties.

8.2 Either party may terminate this MoU by written notification signed by the appropriate official of the institution initiating the notice.

8.3 A minimum of three months prior notification must be sent to the other party prior to the effective date of termination

8.4 In the event of a breakdown due to disagreement etc., the expenditure incurred by the parties would remain on a 'As is Where is' condition. This would be decided on a project by project basis.

8.5 Students taking courses as part of this MoU shall be allowed to continue till the end of that semester.

Yes, The Apollo University agrees to the Clause 8

9. Intellectual Property Rights

Intellectual Property developed by the joint efforts would be the joint property of the Parties and any financial benefits or otherwise arising out of it shall be shared proportionately by the parties in consonance with the efforts / inputs given by them.

Yes, The Apollo University agrees to the Clause 9

10. Jurisdiction

All disputes are to be settled within the jurisdiction of Hyderabad courts, State of Telangana.

Yes, The Apollo University agrees to the Clause 10

11. Undertaking by UoH and other institution

11.1 Both the parties undertake to work closely and cooperate in the implementation of this MoU

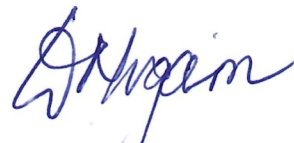
Yes, The Apollo University agrees to the Clause 11.1

11.2 The authorized representatives, including the signatory and the Coordinator related to this MoU acknowledge having read and understood the MoU and agree to be bound by its terms and conditions.

Yes, The Apollo University agrees to the Clause 11.2

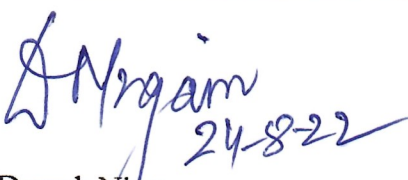
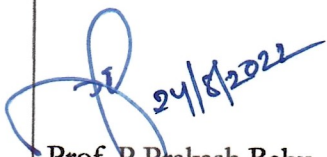
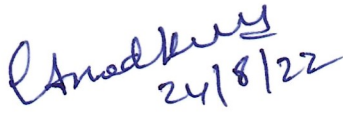
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Memorandum of Understanding between University of Hyderabad and The Apollo University

IN WITNESS WHEREOF, the undersigned, being duly authorized thereto, have signed this Agreement in two original copies in English at the place and on the date(s) indicated below:

For University of Hyderabad	For The Apollo University
 Dr. Devesh Nigam Registrar, University of Hyderabad Telangana कुलसचिव / REGISTRAR हैदराबाद विश्वविद्यालय University of Hyderabad हैदराबाद / Hyderabad - 500 046.	 REGISTRAR The Apollo University Murukambattu Chittoor-517127.A.P. Murukambattu Chittoor Andhra Pradesh
Date: 24 th August 2022	Date: 24 th August 2022
Place: Hyderabad	Place: Hyderabad
Witness 1  Prof. P Prakash Babu Coordinator School of Life Sciences, UoH Hyderabad Telangana	 Prof. Satyanarayana Rentala Coordinator The Apollo University, Chittoor Andhra Pradesh
Witness 2  Prof. Anand K Kondapi Dean (I/c) School of Life Sciences, UoH	 Dr. K Prabakar Head-Academic Affairs Apollo Knowledge Chennai