



தமிழ்நாடு TAMIL NADU

94AB 403284

C: Thirumohan
STAMP VENDOR
L. No. 109/B4/88-9
HIGH COURT CAMPUS
CHENNAI 600 104



SAVEETHA
INSTITUTE OF MEDICAL AND TECHNICAL SCIENCES
(Declared as Deemed to be University under Section 3 of UGC Act 1956)

INDIAN ACADEMY
Degree College - Autonomous

JUN 2021

Memorandum of Understanding

This **Memorandum of Understanding** (hereinafter referred to as "MOU") is made and executed on ~~Thursday~~ Thursday, Date ~~07/06/2021~~ 07/06/2021 at Chennai, Tamil Nadu.

Between

Saveetha Dental College & Saveetha Institute of Medical & Technical Sciences (SIMATS), Poonamalle High Road, Velupanchavadi, Chennai - 600077 represented by **Dr. Deepak Nallaswamy Veeraiyan**, Academic Director, herein after known as the **FIRST PARTY** and Department of Biochemistry, Indian Academy Degree College - Autonomous, Meganahalli, Hennur Main Road, Bengaluru - 560043 represented by **Dr. C. Naveenkumar**, Assistant Professor, herein after known as the **SECOND PARTY** witnesses as follows:

Both the parties enter this formal collaboration in the form of MOU to promote resource sharing and develop academic and educational collaboration through various activities as depicted in the clauses

Clause 1: Students and Staff of both the Institutions are eligible to attend all the quality enhancement programmes organised by the Departments at both the Institutions. The different programmes include:

- a. Any kind of Skill Development Programmes.
- b. Guest lectures by eminent personalities in the field of Biological Sciences.
- c. Seminars/ Workshops/ Conferences
- d. Collaboration between faculty members/department members in Research areas.
- e. Mutual collaboration among students in community related activities and campaigns.

Clause 2: Exchange of personnel as resource persons.

Clause 3: Providing laboratory and library facilities for research activities, wherein **FIRST PARTY** gives a formal consent to accommodate the students from **SECOND PARTY** for Internships and final semester project works.

Clause 4: The implementation of any type of cooperation stated in Clauses 1, 2 and 3 depends on the availability of resources and the financial support at the respective institutions.

Clause 5: This agreement commences on the day of signing by both the parties involved and shall remain in force for two years after this date.

Clause 6: The agreement can be extended after discussion with Principal and HoDs of the respective departments of both the Institutions.

Clause 7: The agreement may at any time be revised or modified by mutual consent within the period agreed upon by way of Clause 6

In Witness thereof, the parties have caused this MOU to be signed in their respective names.

Effective Date: 02-09-2021

In Witness thereof, the parties have caused this MOU to be signed in their respective names as of the date first mentioned above

Accepted by:

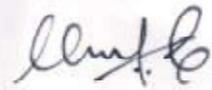
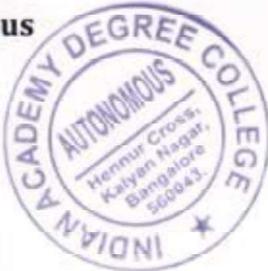
Saveetha Dental College, SIMATS




Dr. Deepak Nallaswamy Veerayan,
Director of Academics,
Saveetha Dental College, SIMATS,
Chennai- 600077.

Accepted by:

**Indian Academy Degree
College Autonomous**

Dr. C. Naveenkumar
Assistant Professor,
Department of Biochemistry,
IADC-A, Bengaluru - 560043.

WITNESSES:


1. Dr. Lakshmi T
Dean International
Affairs

SIMATS


2. Dr. Anamula Varadhan H
HOD, Biochemistry

IADCA

Approved
S. S. S. S.
06/09/2021

PRINCIPAL
Indian Academy Degree College
Autonomous
Hennur Cross, Kalyan Nagar
Bangalore - 560043

Indian Academy Degree College-Autonomous (IADC-A)

IADC-A started with a modest beginning in the year 1994. Currently, it is poised to have student strength of more than 3000-an astounding growth by all standards. The student profile spans across multi-cultural and diverse backgrounds, with people from over 37 countries and from across multiple states of India. Indian Academy Degree College – Autonomous, offers great opportunities to students through value-added programmes and soft skill development programmes. The programmes that a student chooses will help him/her build skills needed to prosper in today's dynamic and evolving society.

IADC-A has one of the rare distinctions of being recognised as a college with '2(f)' and '12(B)' status, by the University Grants Commission, Government of India.

IADC-A has been sanctioned Academic Autonomy as prescribed by UGC under section 64(1) of Karnataka State Universities Act, 2000 and under Section 4.8 of Bangalore University Autonomous College/Body Regulations-2005.

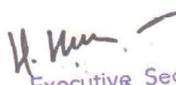
IADC-A has been assessed and re-accredited by National Accreditation and Assessment Council (NAAC), with "A" Grade, and has been awarded a CGPA of 3.27 out of 4.0. The College obtained Grade 'A' in the first cycle of NAAC Accreditation as well.

Karnataka State Council for Science and Technology (KSCST):

KSCST is one of the first State S&T Councils to be set up in the country established in the year 1975 at Indian Institute of Science Campus. It is an autonomous S&T organization under Department of Science & Technology, Government of Karnataka. From the several decades KSCST has been pro-actively engaging itself to identify, propose and implement S&T based solutions to locale specific needs / problems in the broad areas of Water, Education, Energy, Housing, Geospatial technologies and Infrastructure etc in the State.

In co-operation with the Indian Institute of Science and several other premier R&D institutions, KSCST executes many projects and programmes aimed at improving socio-economic conditions of the people of the state. The Department of Science and Technology, Government of India advocated as model to all the states.


Dr. E. JEROME XAVIER
PRINCIPAL
INDIAN ACADEMY DEGREE COLLEGE
AUTONOMOUS
HENNUR MAIN ROAD
KALYAN NAGAR, BANGALORE - 43


Executive Secretary
Karnataka State Council for
Science and Technology
Indian Institute of Science
BANGALORE - 560 012

The Council through its Patent Information Centre (PIC) tirelessly conducting awareness, capacity building, basic and advance training programmes on Intellectual Property Rights (IPRs). KSCST has established many IP cells across Karnataka in Science and Engineering Colleges, Technical Institutions and Universities. Further by providing IP assistance in filing and Commercialisation, KSCST has creating IP ecosystem in the State.

Dr. E. Jerome Xavier, Principal of IADC-A and the Executive Secretary, representing KSCST, Bengaluru have arrived at this Memorandum of Understanding for mutual co-operation and collaboration on matters of mutual interest. Hence, this Memorandum of Understanding (MOU).

The following are the terms of agreement:

1. For the purpose of this MOU, KSCST, Bengaluru to provide the technical assistance in matters relating to Intellectual Property Rights on need basis as mutually agreed upon.
2. KSCST and Indian Academy Degree College- Autonomous (IADC-A) may in joint collaboration organize conduct workshops, training programmes, research activities, and assist in further development of IPR ecosystem in the host institute.
3. If need arises, KSCST and IADC-A may constitute a working group to work out the practical problems of collaboration if any, between the two parties in general and to ensure proper and effective implementation of this MOU.
5. Such details agreed upon will be effective by exchange of letters by KSCST and IADC-A and such letters shall form part of this agreement.
6. IADC-A may reserve or allocate suitable fund for filings and other issues of IPRs that generated from the host institute.
7. The host institute should send a detail report on IP activities of the IP cell for the academic year to be sent to KSCST for information and to provide needful inputs.


Dr. E. JEROME XAVIER
PRINCIPAL
INDIAN ACADEMY DEGREE COLLEGE
AUTONOMOUS
HENNUR MAIN ROAD
KALYAN NAGAR, BANGALORE - 43


Executive Secretary
Karnataka State Council for
Science and Technology
Indian Institute of Science
BANGALORE - 560 012

SCOPE OF THE MOU

KSCST and IADC-A shall/may take relevant steps and measures to protect, promote and enhance research and development, which shall create scope for development of Intellectual Property and take appropriate decisions and measure in furtherance of the same.

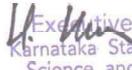
Karnataka State Council for Science and Technology-Roles and Responsibilities

- ❖ KSCST shall provide technical assistance in filing the registration of IPRs and prior art searches.
- ❖ KSCST shall associate with IADC-A in identifying the potential IP innovations in the host institute.
- ❖ KSCST shall associate with IADC-A in organizing IPR programmes.
- ❖ There shall be no financial responsibility from the side of KSCST.

IADC-A: Roles and Responsibilities

- ❖ Shall make available suitable infrastructure, place, manpower for functioning of IP cell and also other needful amenities for the same.
- ❖ Shall nominate IP cell Coordinator to lead the IADC-A:KSCST IP cell and also nominate faculty from all the other institutions coming under it to promote IPR in host institute.
- ❖ Should also nominate and Executive Committee consisting of members from KSCST (IP attorney/ Patent agent &, IP cell Coordinator), IADC-A (Principal/ Secretary/ Treasurers/ Vice chancellor/ Dean/ Head of the Departments) and an advisory committee member consisting of the IP cell Coordinator, KSCST, 1 or 2 faculty from each department from host institute.
- ❖ Should allow IP cell to sensitize and involve the students, faculty, research scholars, and other members and provide awareness and training workshops on IPR periodically.
- ❖ Shall allow the IP Cell to identify and drive the innovation to file & commercialize the IPRs from the institutions associated with host institute.
- ❖ Should also allocate or source fund from other agencies for filing, commercialising, Technology transfer and any IPR issues of the host institute.


Dr. E. JEROME XAVIER
PRINCIPAL
INDIAN ACADEMY DEGREE COLLEGE
AUTONOMOUS
HENNUR MAIN ROAD
KALYAN NAGAR, BANGALORE


Executive Secretary
Karnataka State Council for
Science and Technology
Indian Institute of Science
BANGALORE - 560 012

DURATION OF THE MOU

This MOU shall be in effect initially for a period of **3 years** from the date on which this MOU is signed by both the parties and may be renewed thereafter, by mutual consent. Either party may terminate the agreement by written notification sent to the proper Officer of the institution. Such notice must be received by either Party within six months prior of the effective termination date.

In witness where of the parties hereto cause this instrument to be executed as of the date, month and year indicated below.

On behalf of **Indian Academy Degree College- Autonomous, Bengaluru**


Dr. E. Jerome Xavier
Principal

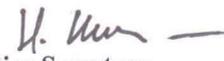
Indian Academy Degree College- Autonomous (IADC-A),

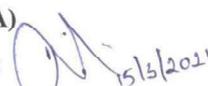
Bengaluru

Date: 15.03.2021

Dr. E. JEROME XAVIER
PRINCIPAL
INDIAN ACADEMY DEGREE COLLEGE
AUTONOMOUS
HENNUR MAIN ROAD
KALYAN NAGAR, BANGALORE-43

On behalf of the **Karnataka State Council for Science and Technology (KSCST), Bengaluru,**


Executive Secretary,
Executive Secretary
Karnataka State Council for Science and Technology (KSCST),
Science and Technology
Bengaluru Indian Institute of Science
BANGALORE - 560 012
Date: 15/03/2021

(IADC-A)
Witness: 
Name: Dr. Sibi G

Designation: Head of the Department
Department of Biotechnology, IADC-A
Head of the Department
Department of Biotechnology
Indian Academy Degree College - Autonomous
Bangalore-560 043

(KSCST)
Witness: 
Name: Vivek Anand Sagar B

Designation: Project Associate, PIC
KSCST


15/3/21

The activities undertaken pursuant to this Memorandum of Understanding (MOU) are based on a spirit of cooperation and reciprocity that is intended to be of mutual benefit to both parties. This is a non-binding agreement and is intended to elucidate the nature and extent of the complementary activities that might be undertaken for the mutual benefit of IADC-A and SJC, Trichy.

1. Both parties are engaged in education and research, and wish to commence and continue their common interest by developing and enriching academic and research exchanges between the two institutions.
2. Both parties, in pursuance of the common intent to disseminate and advance knowledge intend providing instructional, research and extension facilities to each other in all related disciplines and thus develop academic and scientific relationship between the two institutions.
3. The collaboration between the two institutions envisaged by this MOU are:
 - i. Collaborative research, instructional, cultural and extension programmes.
 - ii. Exchange of research information.
 - iii. Student Exchange Programmes.
 - iv. Faculty and Staff exchange programmes.
4. This MOU proposes the following concrete activities in realizing the below given programmes:
 - i. Conducting Seminars and Workshops on research-related areas.
 - ii. Organizing awareness programmes and conferences in field of mutual interest.
 - iii. Exchange of scientific publications.
 - iv. Exchange of personnel as Resource Persons.
 - v. Sharing laboratory and library facilities for research activities.
 - vi. Providing facilities for analysis at concessional rates.
 - vii. Sharing facilities for research students to carry out their projects.
 - viii. Organizing exchange programmes for both Staff and Students.
 - ix. Conducting periodic meetings of concerned personnel to promote better understanding between the two institutions.

ADMINISTRATION OF THE MOU

5. The administration of this MOU will be subject to the following conditions and limitations:
- i. The implementation of any of the programmes or activities envisaged by this MOU shall depend upon the availability of material and financial resources in the institutions concerned.
 - ii. The specific of the programmes and activates shall be designed and carried out by the authorized representatives of IADC-A and SJC, Trichy.
 - iii. The work performed under this MOU will be reviewed on an annual basis. The meetings will be held in a location and on a day that are convenient to both the institutions.
 - iv. Each institution to this MOU shall own the intellectual property (IP) conceived of first reduced to practice solely by its employees or agent. Further the intellectual property conceived and reduced to practice through joint efforts of both the institutions shall be shared by both with regard to project or activities contemplated by this MOU.
 - v. Each institution pledges not to use the name of other party or the name of any employee of other institution, in any publicity, advertising or news release without the prior written approval of the institution.

For agreed upon activities, both institutions will make available their facilities and staff members. This MOU will take effect on and will be valid for three (3) years from the date noted in the first line of this document unless terminated by one of the parties. Either party may withdraw from this MOU provided written notification of the withdrawal is given to the other party at least three (3) months prior to the desired withdrawal date. This MOU may be renewed for another period of three (3) years upon mutual written consent of the parties before the expiration date. Each institution will have copies of this agreement.

There is no financial commitment on the part of IADC-A and SJC, Trichy to take up any programme mentioned in the MoU. If there is any financial consideration, it will be dealt separately.

Additions or amendments to the provisions fixed by this Memorandum of Understanding are possible at any time, subject to consultation and agreement between both parties.

In witness where of the parties hereto cause this instrument to be executed as of the date, month and year indicated below.

On behalf of **Indian Academy Degree College- Autonomous, Bengaluru**


07/4/21

Dr. E. Jerome Xavier, Principal

Indian Academy Degree College- Autonomous (IADC-A), Bengaluru

Date: 07.04.2021

**INDIAN ACADEMY DEGREE COLLEGE
AUTONOMOUS
HENNUR MAIN ROAD
KALYAN NAGAR, BANGALORE**

On behalf of **St. Josephs College (Autonomous), Tiruchirappalli, Tamil Nadu**



Rev. Dr. M. Arockiasamy Xavier SJ, Principal

St. Joseph's College (Autonomous), Tiruchirappalli, Tamil Nadu.

Date: 07/04/2021

**PRINCIPAL
ST. JOSEPH'S COLLEGE
(AUTONOMOUS)
TIRUCHIRAPPALLI 620 002**

(IADC-A)

Witness:

Name: Dr. Sibi G

Designation: Head of the Department

Department of Biotechnology

IADC-A **head of the Department**
Department of Biotechnology
Indian Academy Degree College - Autonomous
Bangalore - 560 043

(SJC, Trichy)

Witness:

Name: Dr. S. R. Senthil Kumar

Designation: Head of the Department

Department of Botany

St. Josephs College (Autonomous)



सत्यमेव जयते

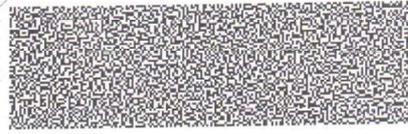
INDIA NON JUDICIAL

Government of Karnataka



e-Stamp

Certificate No. : IN-KA95748650138448T
 Certificate Issued Date : 05-Apr-2021 03:56 PM
 Account Reference : NONACC/ kakscsa08/ KALYANNAGAR/ KA-BA
 Unique Doc. Reference : SUBIN-KAKAKSCSA0863272238696657T
 Purchased by : INDIAN ACADEMY DEGREE COLLEGE AUTONOMOUS
 Description of Document : Article 37 Note or Memorandum
 Description : M O U
 Consideration Price (Rs.) : 0
 (Zero)
 First Party : INDIAN ACADEMY DEGREE COLLEGE AUTONOMOUS
 Second Party : GPS INSTITUTE OF AGRICULTURAL MANAGEMENT
 BANGALORE
 Stamp Duty Paid By : INDIAN ACADEMY DEGREE COLLEGE AUTONOMOUS
 Stamp Duty Amount(Rs.) : 20
 (Twenty only)



Please write or type below this line

THIS MEMORANDUM OF UNDERSTANDING IS MADE ON THE 06th April 2021

between

Indian Academy Degree College- Autonomous

(Hereafter referred to as IADC-A)

Hennur Main Road, Kalyan Nagar

Bengaluru, Karnataka - 560 043

And

GPS Institute of Agricultural Management

(Hereafter referred as GPS Institute)

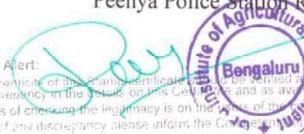
No.1, Techno industrial Complex, Peenya 1st Stage, Peenya Industrial Estate,

Peenya Police Station Road, Bengaluru, Karnataka - 560 058

Page 1 of 4

Statutory Alert:

1. The authenticity of the e-stamp certificate can be verified by visiting the website 'www.stikestamp.com' or using e-Stamp Mobile App of the Government of Karnataka. Any discrepancy in the issue of the e-stamp and as displayed on the website / Mobile App renders it invalid.
2. The onus of checking the legitimacy is on the users of the e-stamp.
3. In case of any discrepancy please inform the Controller, Bangalore.



Indian Academy Degree College- Autonomous and GPS Institute of Agricultural Management hereby establish a Memorandum of Understanding with regard to an Internship Program facilitating the GPS Institute's acceptance of IADC-A students as interns. The terms of the Program are as specified below.

Purpose: With a view to training high-level researchers and practitioners with the skills and knowledge necessary to solve today's global/regional/local environmental problems, IADC-A has established an internship program with GPS Institute that will further the individual student's education and develop the practical skills he or she will need for his/her future career

Period of Internship: The period and itinerary of the internship to be engaged in by the student is to be agreed upon by all three parties (IADC-A, GPS Institute, the student) prior to the commencement of the internship.

Content: The content of the Program and the manner in which the student will be assigned is to be determined through consultation among all three parties (IADC-A, GPS Institute, the student).

Assigning the internship supervisor: The student's internship supervisor at the IADC-A is to be determined by consultation between GPS Institute and IADC-A.

Conditions of the internship: The internship supervisor undertakes to report back to IADC-A on the student's progress over the course of the internship program. The student's faculty supervisor at IADC-A is to monitor the student's progress in terms of how the internship program fulfils his/her training goals. To this end, the faculty supervisor undertakes to visit the student at least once at the GPS Institute during the internship period in order to directly observe the student's progress.



A handwritten signature in blue ink, consisting of stylized letters and a long horizontal stroke.

Evaluation: The long-term intern must submit an internship report to both the host organization/institution internship supervisor and IADC-A faculty supervisor at the end of his/her internship period. The short-term intern must submit a preliminary master's thesis to both GPS Institute internship supervisor and IADC-A faculty supervisor instead of an internship report. The internship supervisor and IADC-A faculty supervisor are to submit evaluative reports to IADC-A based both on the internship report or the preliminary master's thesis received from the student and upon their observations of the student's performance over the period of his/her internship.

Remuneration during the internship period: The matter of remuneration paid to the student during the period of internship is to be agreed upon by the three parties (IADC-A, GPS Institute, the student) prior to the commencement of the internship.

Code of conduct during the internship period: The student undertakes to abide by any employment rules set out by the GPS Institute to facilitate the Program. The student agrees also to follow instruction and accept supervision throughout the internship period.

Keeping confidentiality: The student agrees to keep strict confidentiality. On no grounds is he or she to disclose information obtained over the course of the program which is deemed classified by GPS Institute.

Publication of results: The publicizing of research results gained by the student over the period of his/her research is to take place only after consultation with IADC-A and GPS Institute.

Period of validity of the Memorandum of Understanding: This Memorandum of Understanding is valid for **three years**, effective from the date that its signing is concluded by representatives of IADC-A and the GPS Institute.






Termination/renewal of the Memorandum of Understanding: A period of six months' notice is required in the case when either party (IADC-A and GPS Institute) wishes to terminate the agreement established in this Memorandum of Understanding. Any such wish must be expressed in writing. Any decision to renew the agreement must again be agreed upon by both parties, with both parties expressing their desire to continue at least six months prior to the expiration of the period covered by the current Memorandum of Understanding.

Others: Additions or amendments to the provisions fixed by this Memorandum of Understanding are possible at any time, subject to consultation and agreement between both parties.

In witness where of the parties hereto cause this instrument to be executed as of the date, month and year indicated below.

On behalf of **Indian Academy Degree College- Autonomous, Bengaluru**


06.4.2021
Dr. E. Jerome Xavier, Principal

**Indian Academy Degree College- Autonomous (IADC-A),
Bengaluru**

Date: 06.04.2021

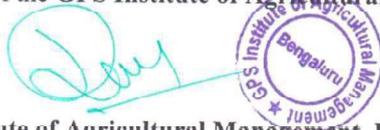
**Dr. E. JEROME XAVIER
PRINCIPAL
INDIAN ACADEMY DEGREE COLLEGE
AUTONOMOUS
HENNING MAIN ROAD
KALYAN NAGAR, BENGALURU - 43**

On behalf of the **GPS Institute of Agricultural Management, Bengaluru,**

The Dean

GPS Institute of Agricultural Management, Bengaluru

Date: 06.04.2021



(IADC-A)

Witness:

Name: Dr. Sibi G

Designation: Head of the Department

Department of Biotechnology, IADC-A

Head of the Department
Department of Biotechnology
Indian Academy Degree College - Autonomous
Bangalore - 560 043

(GPS Institute)

Witness:

Name:

Designation:

GPS Institute

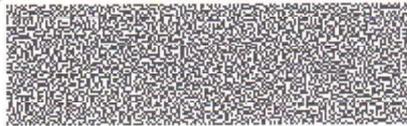
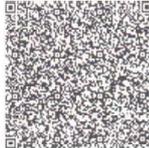


INDIA NON JUDICIAL

Government of Karnataka

e-Stamp

Certificate No. : IN-KA43491839391963T
Certificate Issued Date : 10-Jul-2021 11:33 AM
Account Reference : NONACC/ kaksca08/ KALYANNAGAR/ KA-BA
Unique Doc. Reference : SUBIN-KAKAKSCSA0853042397863968T
Purchased by : INDIAN ACADEMY DEGREE COLLEGE AUTONOMOUS
Description of Document : Article 37 Note or Memorandum
Description : MOU
Consideration Price (Rs.) : 0
(Zero)
First Party : INDIAN ACADEMY DEGREE COLLEGE AUTONOMOUS
Second Party : THE OXFORD COLLEGE OF BUSINESS MANAGEMENT
Stamp Duty Paid By : INDIAN ACADEMY DEGREE COLLEGE AUTONOMOUS
Stamp Duty Amount(Rs.) : 20
(Twenty only)



Please write or type below this line

THIS MEMORANDUM OF UNDERSTANDING
INDIAN ACADEMY
Degree College - Autonomous

AND



Statutory Alert:

1. The holder of this Stamp certificate should be made full use of www.stamptamp.com or using e-Stamp/Mobile App of Stock Holding Corp. displaying in the details on this Certificate and also available on the website / Mobile App reader's it would
2. For preserving the legitimacy to all the users of the certificate
3. In case of any discrepancy please inform the Collector/Authority

This **Memorandum of Understanding** (hereinafter referred to as "MOU") is made and executed on Wednesday, 7th April 2021 at Bangalore

The activities undertaken pursuant to this Memorandum of Understanding (MOU) are based on a spirit of cooperation and reciprocity that is intended to be of mutual benefit to both parties. This is a non-binding agreement and is intended to elucidate the nature and extent of the complementary activities that might be undertaken for the mutual benefit of Indian Academy Degree College- Autonomous (IADC-A) and The Oxford College of Business Management (TOCBM), Bangalore.

1. Both parties are engaged in education and research, and wish to commence and continue their common interest by developing and enriching academic and research exchanges between the two institutions.
2. Both parties, in pursuance of the common intent to disseminate and advance knowledge intend providing instructional, research and extension facilities to each other in all related disciplines and thus develop academic and scientific relationship between the two institutions.
3. The collaboration between the two institutions envisaged by this MOU are:
 - i. Collaborative research, instructional, cultural and extension programmes.
 - ii. Exchange of research information.
 - iii. Student Exchange Programmes.
 - iv. Faculty & Staff Exchange programmes.
4. This MOU proposes the following concrete activities in realizing the below given programmes:
 - i. Conducting Seminars and Workshops on research-related areas.
 - ii. Organizing awareness programmes and conferences in field of mutual interest.
 - iii. Exchange of scientific publications.
 - iv. Exchange of personnel as Resource Persons.
 - v. Sharing laboratory and library facilities for research activities.
 - vi. Providing facilities for analysis at concessional rates.
 - vii. Sharing facilities for research students to carry out their projects.
 - viii. Organizing exchange programmes for both Staff and Students.

- ix. Conducting periodic meetings of concerned personnel to promote better understanding between the two institutions.

ADMINISTRATION OF THE MOU

- 5. The administration of this MOU will be subject to the following conditions and limitations:
 - i. The implementation of any of the programmes or activities envisaged by this MOU shall depend upon the availability of material and financial resources in the institutions concerned.
 - ii. The specific of the programmes and activates shall be designed and carried out by the authorized representatives of IADC-A and TOCBM.
 - iii. The work performed under this MOU will be reviewed on an annual basis. The meetings will be held in a location and on a day that are convenient to both the institutions.
 - iv. Each institution to this MOU shall own the intellectual property (IP) conceived of first reduced to practice solely by its employees or agent. Further the intellectual property conceived and reduced to practice through joint efforts of both the institutions shall be shared by both with regard to project or activities contemplated by this MOU.
 - v. Each institution pledges not to use the name of other party or the name of any employee of other institution, in any publicity, advertising or news release without the prior written approval of the institution.

For agreed upon activities, both institutions will make available their facilities and staffs. This MOU will take effect on and will be valid for **three (3) years** from the date noted in the first line of this document unless terminated by one of the parties. Either party may withdraw from this MOU provided written notification of the withdrawal is given to the other party at least three (3) months prior to the desired withdrawal date. This MOU may be renewed for another period of three (3) years upon mutual written consent of the parties before the expiration date. Each institution will have copies of this agreement.

There is no financial commitment on the part of IADC-A and TOCBM, Bangalore to take up any programme mentioned in the MoU. If there is any financial consideration, it will be dealt separately.

Additions or amendments to the provisions fixed by this Memorandum of Understanding are possible at any time, subject to consultation and agreement between both parties.

In witness where of the parties hereto cause this instrument to be executed as of the date, month and year indicated below.

On behalf of **Indian Academy Degree College- Autonomous, Bengaluru**


PRINCIPAL
Indian Academy Degree College-
Autonomous
Dr. E. Jerome Xavier, Principal
Bangalore - 560043

Indian Academy Degree College- Autonomous (IADC-A), Bengaluru

Date: 07.04.2021

On behalf of The Oxford College of Business Management, Bangalore


PRINCIPAL
Dr. Nikitha Alur
The Oxford College of Business Management
Principal
H.S.R. Layout, Sector - 4,
Bangalore - 560 102.
The Oxford College of Business Management, Bangalore

Date: 15-07-2021

IADC-A

Witness:

Name: **Shalini.S**

Designation: Vice Principal

IADC-A


VICE PRINCIPAL
INDIAN ACADEMY DEGREE COLLEGE
BANGALORE
H.S.R. LAYOUT SECTOR 4

TOCBM-Bangalore

Witness:

Name: **Dr. S. Chitra Devi**

Designation: Associate Professor

Department of PG Studies

TOCBM



MOU High



सत्यमेव जयते

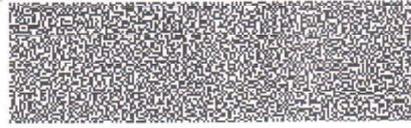
INDIA NON JUDICIAL

Government of Karnataka



e-Stamp

Certificate No. : IN-KA43491199152734T
Certificate Issued Date : 10-Jul-2021 11:33 AM
Account Reference : NONACC/ kakscsa08/ KALYANNAGAR/ KA-BA
Unique Doc. Reference : SUBIN-KAKAKSCSA0853035139820780T
Purchased by : INDIAN ACADEMY DEGREE COLLEGE AUTONOMOUS
Description of Document : Article 37 Note or Memorandum
Description : MOU
Consideration Price (Rs.) : 0
(Zero)
First Party : INDIAN ACADEMY DEGREE COLLEGE AUTONOMOUS
Second Party : SAROJINI NAIDU COLLEGE FOR WOMEN KOLKATA
Stamp Duty Paid By : INDIAN ACADEMY DEGREE COLLEGE AUTONOMOUS
Stamp Duty Amount(Rs.) : 20
(Twenty only)



Please write or type below this line

THIS MEMORANDUM OF UNDERSTANDING
INDIAN ACADEMY
Degree College - Autonomous

And



SAROJINI NAIDU COLLEGE FOR WOMEN (SNCW), KOLKATA

Stamping Alert

1. The authenticity of the Stamp certificate should be verified at www.stampstamp.com or using e-Stamp Mobile App or Stock Holding Company (SNCW) website details on the Particulars with the verification of the certificate number on the website.
2. The stamp of e-Stamping the legitimacy is on the website of the certificate.
3. Any discrepancy, subsequently please inform the Competent Authority.

This **Memorandum of Understanding** (hereinafter referred to as "MOU") is made and executed on Saturday, 15th May 2021 at Bangalore

The activities undertaken pursuant to this Memorandum of Understanding (MOU) are based on a spirit of cooperation and reciprocity that is intended to be of mutual benefit to both parties. This is a non-binding agreement and is intended to elucidate the nature and extent of the complementary activities that might be undertaken for the mutual benefit of Indian Academy Degree College – Autonomous (IADC-A) and Sarojini Naidu College For Women (SNCW), Kolkata.

1. Both parties are engaged in education and research, and wish to commence and continue their common interest by developing and enriching academic and research exchanges between the two institutions.
2. Both parties, in pursuance of the common intent to disseminate and advance knowledge intend providing instructional, research and extension facilities to each other in all related disciplines and thus develop academic and scientific relationship between the two institutions.
3. The collaboration between the two institutions envisaged by this MOU are:
 - i. Collaborative research, instructional, cultural and extension programmes.
 - ii. Exchange of research information.
 - iii. Student Exchange Programmes.
 - iv. Faculty & Staff Exchange programmes.
4. This MOU proposes the following concrete activities in realizing the below given programmes:
 - i. Conducting Seminars and Workshops.
 - ii. Organizing awareness programmes and conferences in field of mutual interest.
 - iii. Exchange of scientific publications.
 - iv. Exchange of personnel as Resource Persons.
 - v. Sharing laboratory and library facilities for research activities.

- vi. Organizing exchange programmes for both Staff and Students.
- vii. Conducting periodic meetings of concerned personnel to promote better understanding between the two institutions.

ADMINISTRATION OF THE MOU

5. The administration of this MOU will be subject to the following conditions and limitations:
- i. The implementation of any of the programmes or activities envisaged by this MOU shall depend upon the availability of material and financial resources in the institutions concerned.
 - ii. The specific of the programmes and activates shall be designed and carried out by the authorized representatives of IADC-A and SNCW, Kolkata.
 - iii. The work performed under this MOU will be reviewed on an annual basis.
 - iv. Each institution to this MOU shall own the intellectual property (IP) conceived of first reduced to practice solely by its employees or agent. Further the intellectual property conceived and reduced to practice through joint efforts of both the institutions shall be shared by both with regard to project or activities contemplated by this MOU.
 - v. Each institution pledges not to use the name of other party or the name of any employee of other institution, in any publicity, advertising or news release without the prior written approval of the institution.

For agreed upon activities, both institutions will make available their facilities and staffs. This MOU will take effect on and will be valid for **three (3) years** from the date noted in the first line of this document unless terminated by one of the parties. Either party may withdraw from this MOU provided written notification of the withdrawal is given to the other party at least three (3) months prior to the desired withdrawal date. This MOU may be renewed for another period of three (3) years upon mutual written consent of the parties before the expiration date. Each institution will have copies of this agreement.

There is no financial commitment on the part of IADC-A and SNCW, Kolkata to take up any programme mentioned in the MOU. If there is any financial consideration, it will be dealt separately.

Additions or amendments to the provisions fixed by this Memorandum of Understanding are possible at any time, subject to consultation and agreement between both parties.

In witness where of the parties hereto cause this instrument to be executed as of the date, month and year indicated below.

**Indian Academy Degree College
Autonomous
Bengaluru**

Dr. E. Jerome Xavier
Principal
Indian Academy Degree College-
Autonomous (IADC-A)
Bengaluru
Date:


PRINCIPAL
Signature: Indian Academy Degree College
Autonomous
Hennur Cross, Kalyan Nagar
Bangalore - 560043

WITNESS

Name: Shalini.S
Designation: Vice Principal
Indian Academy Degree College Autonomous
(IADC-A)


Signature:
INDIAN ACADEMY DEGREE COLLEGE
AUTONOMOUS
HENNUR CROSS, KALYAN NAGAR
BANGALORE - 560043

**Sarojini Naidu College for Women
Kolkata**

Dr. Urmila Ukil
Principal
Sarojini Naidu College for Women
30, Jessore Road, Kolkata-700028
Date:


Signature:
Principal
Sarojini Naidu College
for Women
Govt. Sponsored

WITNESS

Name: Dr. Santwana Chakraborty
Designation: Associate Professor
Department of Bengali
Sarojini Naidu College for Women


Signature:
Co-Ordinator
IQAC
Sarojini Naidu College for Women
30, Jessore Road Kolkata- 28



सत्यमेव जयते

INDIA NON JUDICIAL

Government of Karnataka

e-Stamp

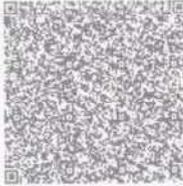
Certificate No. : IN-KA23355823053356T
 Certificate Issued Date : 07-Oct-2021 10:03 AM
 Account Reference : SELFPRIINT (PU)/ ka-self/ JC ROAD/ KA-BA
 Unique Doc. Reference : SUBIN-KAKA-SELF01760157970079T
 Purchased by : ABIDALI KHAN
 Description of Document : Article 4 Affidavit
 Description : M O U
 Consideration Price (Rs.) : 0
 (Zero)
 First Party : INDIAN ACADEMY DEGREE COLLEGE AUTONOMOUS
 BANGALORE
 Second Party : S VYASA UNIVERSITY BANGALORE
 Stamp Duty Paid By : INDIAN ACADEMY DEGREE COLLEGE AUTONOMOUS
 BANGALORE
 Stamp Duty Amount(Rs.) : 20
 (Twenty only)

सत्यमेव जयते

For A2Z SOLUTIONS INDIA

Proprietor

Mob: 8970066000 / L.L. 080-25447569



SELF PRINTED CERTIFICATE
TO BE VERIFIED BY THE RECIPIENT

Please write or type below this line

MEMORANDUM OF UNDERSTANDING (MOU)

This "Memorandum of Understanding" (Here-in-after referred to as "MOU") is made entered into this on Thursday, 7th October 2021 (Here-in-after referred to as the "Effective Date") at S-VYASA University Campus.

By
&
Between

Siddhant MK

[Signature]

Statutory Alert:

Swami Vivekananda Yoga Anusandhana Samsthana, a deemed-to-be University under Section 3, UGC Act, 1956 having its registered office at # 19 Eknath Bhavan, Gavipuram Circle, KG Nagar, Bengaluru 560019 (hereinafter referred to as “S-VYASA” which expression unless excluded by or repugnant to the context or meaning hereof, shall include its Successor (s), Administrator (s) or Permitted Assignee (s)), being represented through its Authorized Signatory Dr M.K Sridhar, Registrar, S-VYASA, Bengaluru, of the **FIRST PART**.

AND

Indian Academy Degree College – Autonomous, Hennur Main Road, Bengaluru 560043 being represented through its Principal Dr. Srinidhi K Parthasarathi the Authorized Signatory, of the **SECOND PART**.

HERE-IN-AFTER, individually referred to as the “**Party**” and collectively referred to as the “**Parties**”.

WHEREAS, S-VYASA and Indian Academy Degree College – Autonomous agree to work together as collaborative educational partnership in the following areas:

1. To provide Yoga skill oriented courses as well as certificate Yoga course;
2. To exchange academic staff (faculty);
3. To exchange students;
4. To conduct collaborative research and disseminate the findings jointly;

NOW THEREFORE, IN VIEW OF THE FOREGOING PREMISES AND IN FURTHER CONSIDERATION OF MUTUAL COVENANTS HEREIN CONTAINED, THE PARTIES HERETO AGREE AS GIVEN UNDER:

(1) RESPONSIBILITIES OF S-VYASA:

- a. S-VYASA agrees to provide necessary technical expertise to help academic courses at the Certificate level;
- b. S-VYASA agrees to help plan events such as national and international yoga seminars, workshops, conferences, conventions, etc.
- c. S-VYASA agrees to help develop extension activities such as Research, health camps, community projects, surveys, etc.

(2) RESPONSIBILITIES OF INDIAN ACADEMY DEGREE COLLEGE – AUTONOMOUS

- a) Indian Academy Degree College – Autonomous agrees to promote Yoga Courses as per the recommendations of S-VYASA.
- b) Indian Academy Degree College – Autonomous agrees to implement recommendations of the S-VYASA in terms of administering & delivering courses.

Sridhar MK

Srinidhi K Parthasarathi

- c) For orientation programmes that will be conducted at Indian Academy Degree College – Autonomous or S-VYASA campus, Indian Academy Degree College-Autonomous agrees to pay the program fees as per S-VYASA norms.
- d) Indian Academy Degree College – Autonomous agrees to pay S-VYASA resource persons on per project basis or as defined in the projects that are jointly taken up by Indian Academy Degree College-Autonomous and S-VYASA.
- e) Indian Academy Degree College – Autonomous agrees to give joint authorships for such papers that will be published from joint research projects between Indian Academy Degree College – Autonomous and S-VYASA.

(3) EFFECTIVE DATE, DURATION & TERMINATION:

- (i) The present MOU shall commence from the date of its execution (Here-in-after referred to as the “EFFECTIVE DATE”) and shall be valid for a period of Three (03) years and it shall be subject to further renewal for a period each of Two (02) years on mutually agreed terms & conditions to be agreed in writing and to be duly signed and executed by the Authorized Signatories of the either sides:
- (ii) In the event of violation of any of the provisions specified in various Clauses of this MOU that leads to a conflict and which may affect the objectives of this MOU at any time during the MOU period, either party may terminate this MOU by giving an advance notice in writing of Two (02) Months, delivered by Registered Post to the Registered Office of the other party. The termination of this MOU however, will not in any way affect the validity and completion of any activities undertaken in terms of this MOU prior to the date of termination and such activities will be carried out until due discharge by performance, unless otherwise specified.

(4) FORCE MAJEURE: Nevertheless, neither party shall be liable for performance delays or for non-performance due to force majeure or causes beyond its reasonable control, except for payment obligations;

- (i) Neither party will be liable for the delay or failure in performing obligations if the failure results from circumstances beyond its reasonable control (Such circumstances here-in-after referred to as “Force Majeure”), including but not limited to acts of God, war / hostilities, riot or civil commotion, fire, flood or earthquake, tempest, lightening or other natural physical disaster, restrictions imposed by the Government or other Statutory bodies which prevents or delays the execution of the MOU, then the party so affected shall promptly notify the other party in writing specifying the nature of the Force Majeure and of the anticipated delay in the performance of the MOU. From the date of the notification, regarding Force Majeure the MOU may be closed with the mutual consent of the Parties on “As is where is basis” or suspend the performance of the MOU for a period not exceeding Two (2) months:

Sidhar NK

[Signature]

- (ii) If at the expiry of the period of suspension, the reasons for suspension still remain / stand valid, S-VYASA and Indian Academy Degree College – Autonomous shall treat the MOU as terminated;
- (iii) On resumption of normal conditions the Parties to this MOU shall consult each other and evolve a new MOU for S-VYASA and Indian Academy Degree College – Autonomous future relations between them;

(5) AMENDMENT OF THE MOU:

The obligations of Indian Academy Degree College – Autonomous and S-VYASA have been outlined in this MOU. However during the operation of the MOU, circumstances may arise which may call for alterations or modifications of this MOU. These modifications / alterations will be mutually discussed and endorsed in the form of an “Appendix or Addendum to the MOU”. These modifications / alterations will be mutually discussed and agreed upon in writing and shall be effective only if executed by the respective duly authorized representatives of each of the Parties hereto.

(6) INDEMNITY CLAUSE:

- (i) S-VYASA & Indian Academy Degree College – Autonomous, both have agreed to bear the responsibility for any third party claims, demands, proceedings, prosecutions, or actions against each other, arising out of and as a result of any callous, negligent, deficient action or omission by any employee of S-VYASA or Indian Academy Degree College – Autonomous, and has undertaken to keep each other (i.e. S-VYASA or Indian Academy Degree College – Autonomous) indemnified against all losses and damages suffered including expenses incurred by them while defending the claim (Inclusive of Legal Expenses) in City, or any other court as a result of any such claim, demands, proceedings, prosecutions or actions. The Parties have agreed that this provision shall survive termination of the MOU;
- (ii) S-VYASA or Indian Academy Degree College – Autonomous shall indemnify, protect and save each other against all claims, losses, costs, damages, expenses, legal suits and other proceedings, resulting from failure or mal-functioning of the delivery of academic programs resulting from infringement of any patent, trademarks, copyrights, etc. or other statutory infringement;
- (iii) Indian Academy Degree College – Autonomous shall be responsible for handling any legal issues arising out of administrative and operational aspects while S-VYASA shall be responsible for content and technical aspects of the program.

Sudhar NK

[Signature]

(7) NO PARTNERSHIP:

Nothing in this MOU shall be deemed to constitute or create an association trust, partnership or a joint venture between the parties nor constitute any Party the agent of any other Party for any purpose.

(8) DISPUTE RESOLUTION:

- (i) In the event of any dispute, difference or question on this MOU arises between the parties hereto or their respective representative or assignees at any time, in connection with construction, meaning, operation, effect, interpretation or arising out of the MOU or breach thereof, effort (s) shall be made initially to settle the dispute amicably through mutual discussion within a period of three months in a meeting of the signatories of the two organizations i.e., Principal, Indian Academy Degree College – Autonomous (Or His Duly appointed Representative), & the Registrar, S-VYASA, Bengaluru (Or His Duly appointed Representative), who shall meet & mutually decide on the issues involved;
- (ii) It is further agreed between the parties that in the event the efforts to resolve the dispute as per Sub-Clause (i) above fail then resource to mechanism / instructions as suggested by the Secretary, Department of Legal Affairs, Ministry of Law & Justice, Government of India, vide D. O. No. 29 (9) / 2014 – Judl. Dated 07.08.2014 to desist from initiating Inter-ministerial / Departmental Litigation in the Court of Law and to reduce the litigations between various Ministries / Departments / PSUs / Boards / Authorities, etc. would be adhered to by both the parties;
- (iii) However, even if the above mechanism fail to resolve the dispute, then in such an eventuality only the Court (s) at Bengaluru City will have jurisdiction to adjudicate upon the matter / dispute.

(9) PUBLICITY:

Any publicity by Indian Academy Degree College – Autonomous, pertaining to the activities not contained in this MOU but in which the name of S-VYASA is to be used shall be done only with the explicit written permission of S-VYASA and after the contents of the same are vetted / approved by S-VYASA. If Indian Academy Degree College – Autonomous, to do so, it shall be considered a breach of the MOU and vice versa.

(10) PROFESSIONAL PRACTICE:

Indian Academy Degree College – Autonomous shall adhere to professional academic and consulting standards and shall observe sound academic, management and technical practices.





(11) MATTERS NOT PROVIDED HERE – IN:

If any doubt arises as to the interpretation of the provisions of this MOU or as to matters not provided therein, the parties to this MOU shall consult with each other for each instance and resolve such doubts in good faith;

(12) GOVERNING LAW (S) AND JURISDICTION:

The MOU shall be governed and interpreted by, and construed in accordance with the substantive laws of India. All disputes, differences, claims and demands arising under or pursuant to or touching upon this MOU shall be subject to the jurisdiction of Courts of Bengaluru City Only.

(13) INTERPRETATION:

This MOU has been executed in English and the English language that be the controlling language for interpretation thereof. No other translation, if any, of this MOU into other languages shall be of any force or effect in the interpretation of this MOU or in determination of the intent of either of the Parties hereto.

(14) REPRESENTATION AND WARRENTIES:

S-VYASA and Indian Academy Degree College – Autonomous hereby represent and warrant to each other:

- (i) It has the power and authority to sign this MOU, perform and comply with its duties and obligations under this MOU;
- (ii) This MOU constitutes legal, valid and binding obligations enforceable against it in accordance with the terms hereof;
- (iii) The execution, delivery and performance of this MOU have been duly authorized by all requisite actions and will not constitute a violation of;
- (iv) Any statute, judgement, order decree or regulation of any court, governmental instrumentality arbitral tribunal applicable or relating to itself, its assets or its functions; or
- (v) Any other documents or to the best of its knowledge any indenture, contract or MOU to which it is a party or by which it may be bound;
- (vi) There are no suits or proceedings pending to the best of knowledge threatened against it before any court, government instrumentality or arbitration tribunal that restrain it from performing its duties and obligations under this MOU; and
- (vii) That no representation or warranty made herein contains any untrue statement.

Siddharth NK

[Signature]

(15) SEVERABILITY:

Any law restraining the validity and enforceability of any provision of this MOU shall not affect the validity or enforceability of the remaining provisions hereof and this MOU shall be deemed as not containing the invalid provisions. The remaining provisions of this MOU shall remain in full force and effect, unless the invalid or unenforceable provision comprises an integral part of or otherwise is inseparable from the remaining MOU. In such a case, the Parties to this MOU shall attempt to agree on a provision which is valid and enforceable and similar to the original provision.

(16) FURTHER ACTS AND ASSURANCES:

Each of the Parties agrees to execute and deliver all such further instruments to do and perform all such further acts and things, as shall be necessary and required to carry out the provisions of this MOU and to consummate the transactions contemplated hereby.

(17) NOTICES:

Any notice, approval, consent and or other notification required or permitted to be given hereunder shall be in writing in English and shall be personally delivered, or transmitted by registered mail with postage full paid, or transmitted by facsimile (With postage prepaid) to the address specified below or to such address as may, from time to time, be given by each party to the other party in writing and in the manner herein before provided:

- (i) Dr. M. K. Sridhar
The Registrar,
SWAMI VIVEKANANDA YOGA ANUSANDHANA SAMSTHANA
(S-VYASA),
#19, EknathBhavan, Gavipuram Circle,
K.G. Nagar, Bengaluru – 560019 (Karnataka).
- (ii) Dr. Srinidhi K Parthasarathi
Principal
Indian Academy Degree College – Autonomous,
Hennur Main Road, Bengaluru 560043.

Or to such other address, fax number or e-mail address as either party may from time to time notify the other in relation to this section. Any notice or communication made by personal delivery or by courier will be conclusively deemed to have been given on the day of actual delivery or, if made or given by fax or e-mail on the first business day following the transmittal of.

Sridhar MK

[Signature]

This MOU is signed on the date appended herein at S-VYASA University Campus

IN WITNESS WHEREOF, the parties hereto have caused this MOU to be made in English and executed by their respective duly authorized signatories on this the day and year first above written.

SIGNED, SEALED AND DELIVERED BY:

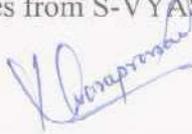
For and on behalf of S-VYASA:


Dr. M. K. Sridhar
Registrar,
S-VYASA
Bengaluru



Dated: 7/10/21
Place: Bengaluru

In the presence of:
(Representatives from S-VYASA,
Bengaluru)



(1) Name: _____
Address: Dr. Shree Varaprasad. N S
B.Sc, Ph.D
Deputy Registrar

(2) Name: _____
Address: _____

For and on behalf of Indian Academy Degree College – Autonomous


Dr. Srinidhi K Parthasarathi
Principal
Indian Academy Degree College –
Autonomous
Bengaluru

Dr. Srinidhi K Parthasarathi BE.,PGDM.,Ph.D.,D.Litt
PRINCIPAL

Dated: 7/10/21
Place: Bengaluru
Indian Academy Degree College - Autonomous
Hennur Main Road, Kalyan Nagar
Bangalore - 560043, Karnataka

In the presence of:
(Representatives from Indian Academy
Degree College, Bengaluru).

(1) Name: Shalini S
Address: _____

VICE-PRINCIPAL
INDIAN ACADEMY DEGREE COLLEGE
AUTONOMOUS
HENNUR MAIN ROAD BANGALORE-43

(2) Name: Sangeetha Annie George
Address: Head, Department of Zoology
& IQAC Coordinator



Collaboration Agreement

This Collaboration Agreement (hereinafter referred to as "CA") is made and executed on 28th October 2021 at Bangalore.

Between

Department of Microbiology, Indian Academy Degree College- Autonomous, Bangalore represented by Prof. Rajarajan. P, Head, herein after known as the **FIRST PARTY** and Dr. V Damodara Reddy's Research lab, Department of Biochemistry, REVA University, Bangalore herein after known as the **SECOND PARTY** witnesses as follows:

Both the Departments enter this formal collaboration in the form of Collaboration Agreement to promote resource sharing and develop academic and educational collaboration through various activities as depicted in the clauses

Clause 1: Students and Staff of both the Institutions are eligible to attend all the quality enhancement programmes organised by the Departments at both the Institutions

- a. Any kind of Skill Development Programmes
- b. Guest lectures by eminent personalities in the field of Science/ Commerce/ Management/ Humanities organised by Institutions
- c. Seminars/ Workshops/ Conferences
- d. Collaboration between faculty members/departments in Research areas
- e. Mutual collaboration among students in community related activities and campaigns

Clause 2: Exchange of personnel as resource persons

Clause 3: Providing laboratory and library facilities for research activities

Clause 4: The implementation of any type of cooperation stated in Clauses 1, 2 and 3 depends on the availability of resources and the financial support at the respective institutions.

Clause 5: This agreement commences on the day of signing by both the parties involved and shall remain in force for **two years** after this date.

Clause 6: The agreement is between two parties mentioned as above in the respective departments of both the Institutions.

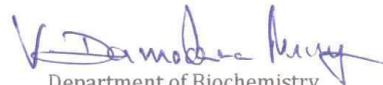
Clause 7: The agreement may at any time be revised or modified by mutual consent within the period agreed upon by way of Clause 6

FIRST PARTY

SECOND PARTY

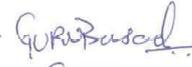

Head
Department of Microbiology

Department of Microbiology
IADC-A
Indian Academy Degree College
Hannur Cross, Hannur Main Road


Department of Biochemistry

REVA University
Dr. V. Damodara Reddy PhD
Associate Professor Dept of Biochemistry
School of Applied Sciences Reva University
Bangalore-560064 Karnataka India

Witnesses

- 
(D.P. MACHYAPPA P.)
- 
(Guruprasad)

Memorandum of Understanding

Between

International Skill Development Corporation [ISDC]

And

**Indian Academy Degree College Autonomous,
Bengaluru**

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding is entered into at Bengaluru on this 18th day of January in the Year 2021.

BETWEEN:

ISDC Projects India Pvt Ltd, trading as ISDC - International Skill Development Corporation and having its Regional Office at Lakshmi Narayan Complex, Palace Road, Vasanth Nagar, Bengaluru 560032, Karnataka represented by its Head – Institutional Partnerships, Mr. Daya Murthy, hereinafter referred to as "ISDC" or the **FIRST PARTY**

AND

Indian Academy Degree college Autonomous, NAAC re-accredited with 'A' Grade | Autonomous College under University Grants Commission & Bengaluru North University, conducting Graduate and Post Graduate courses and having its premises at Meganahalli, Kalyan Nagar, Bengaluru, Karnataka 560043, represented by its Principal Dr. E. Jerome Xavier hereinafter referred to as "INDIAN ACADEMY, Bengaluru" or the **SECOND PARTY**;

Both parties as above have expressed a desire of entering into a Memorandum of Understanding to meet their respective objectives, which are set out herein below.

WHEREAS

- a. The First Party - ISDC, a Skill Development & Education Company having expertise in Professional and Vocational Education and is interested in associating with the Second Party to promote and deliver US CMA (Certified Management Accountant) to all the students of B.Com (Honours) and BBA. US CMA is awarded by IMA (Institute of Management Accountants), USA. IMA is the global professional body for Management

Accountants. The US CMA Course is globally recognized, advanced-level credential appropriate for commerce students, accountants and financial professionals in business.

- b. The Second Party on its part is interested in associating with First Party for using their expertise to promote and deliver US CMA as the Value-Added Program of INDIAN ACADEMY, Bengaluru which leads to the professional qualification from IMA to the students enrolled with the Second Party along with their Undergraduate degree from INDIAN ACADEMY, Bengaluru.

The purpose of this Memorandum of Understanding is to set forth the terms and conditions under which the Parties to this understanding shall conduct themselves during the subsistence of the Memorandum.

This Memorandum of Understanding ("MOU") is not, and is not intended to be, legally binding except as specifically set out below.

1. The Second Party shall support and promote the US CMA qualification offered by the First Party to their Undergraduate Students. The Students enrolled for US CMA are eligible for the additional Qualification / Membership from IMA.
2. It is the responsibility of the Second Party to get the necessary approvals for running the program at INDIAN ACADEMY, Bengaluru.
3. The First party can use the name of "INDIAN ACADEMY, Bengaluru" for promoting the above program in advertisements and other modes of communications like brochures, flyers etc.
4. The admission criteria and the number of seats for the above said program will be fixed by the Second Party in consultation with First Party.
5. The First Party provides the hard copy of the study materials to the students enrolled for CMA and provide soft copy to the Programme coordinator.

6. The First Party provides training support to the students enrolled for the above program and the number of hours per subject / paper/module is given as Annexure 1.
7. All responsibilities regarding registration of the students with professional body should be dealt with, by the First Party. The students have to follow the Rules and Regulations of respective Professional body to appear the examination and pursue the qualification/ membership and designation.
8. The relevant fee to professional bodies has to be paid by the students directly as per the rules and regulations set by the professional bodies time to time as per Annexure 2.
9. Out of the Tuition Fees Collected, the Second Party has to make the necessary payment to the First party as per the table given below:

Course/Program	Amount Payable
a) ISDC Royalty Fee	b) INR 40,000 Per Student for the entire course to be paid in 2 installments
c) 1st Installment	d) INR 20,000 to be payable by 31st January 2021
e) 2nd Installment	f) INR 20,000 to be payable by 15 th June 2021

Note:

- g) This is for the Batch of 2020-21 while the same will continue for subsequent fresh batches.
 - h) The Specified commercials does not include GST or any other tax components.
10. The complete list of Students of the course shall be provided to the First Party by the Second Party. Changes in Students, if any, shall be communicated by the representative of the Second Party to the First Party immediately.
 11. It is intended that the terms of this MoU will remain in force for an initial period of three years set out above i.e., the completion of First Batch or is otherwise terminated in

years set out above i.e., the completion of First Batch or is otherwise terminated In accordance with the provisions of Clause 12 below. The MoU can be extended for further periods after the expiry of three years upon the parties mutually agreeing such extension in writing. The terms of this Memorandum may be modified at any time by both parties on mutual consent.

12. Either party shall be entitled to terminate the MOU on 60 days' notice. The MoU will automatically terminate:
 - Any potential Binding Agreement would be unenforceable, void or illegal due to any statutory or regulatory requirements; or
 - Terminates any Binding Agreement for cause.
 - In the event of the termination of the agreement, the First Party agrees to complete the existing batches on agreed terms.
13. All intellectual property created by a party in connection with the collaboration shall remain the property of that party. The parties agree that any material jointly created by the parties for the collaboration shall be jointly owned (in equal proportions) by the parties, unless otherwise agreed in writing.
14. Where the collaboration reasonably requires the use by one party of intellectual property that is owned by the other party (the "**IPR Owner**"), the IPR Owner will license such rights to the other party on a non-exclusive basis, without the right to sub-license, solely for the purpose and to the extent necessary in connection with the collaboration. Any such license will automatically terminate when the MoU is terminated.
15. For the purposes of this MoU, "**Confidential Information**" shall be all information of a confidential nature (whether written or oral) concerning the business and affairs of either party which is obtained or received as a result of the discussions leading up to, the entering into or the performance of this MoU, including financial information, training & learning material, trade secrets, college lists, trade and commercial details and computer software and databases, the contents of all reports and documentation prepared by either party or on its behalf and any other information of a confidential

nature designated by a party as confidential; Each of the parties shall at all times while this MoU remains in force and after it has terminated, keep confidential the Confidential Information except where:

- The Confidential Information was already lawfully known, or became lawfully known to either of the parties independently;
 - Disclosure or use is necessary by either of the parties (including their employees, agents and sub-contractors) for the proper and effective performance of this MoU;
 - Disclosure is required by law to any government, governmental department, agency, regulatory or fiscal body or authority (whether national or foreign) and their authorized agents (including professional advisers);
 - The Confidential Information is disclosed, in the case of ISDC, to another member of the ISDC group of companies;
 - Each party undertakes to the other that it will not disclose or make use of, for its own benefit, any of the Confidential Information of that other party.
16. All disputes and differences of any kind whatever arising out of or in connection with this MoU shall be referred to the arbitration, and the final decision of an arbitrator Jointly appointed by both the parties to be agreed upon and appointed by both the parties, or in case of disagreement as to the appointment of a single arbitrator, two arbitrators, one to be appointed by each party and if there are two arbitrators, they shall before taking upon themselves the burden of reference appoint a third arbitrator who shall act as Presiding Arbitrator. This submission to the arbitrators shall be deemed to be a submission to arbitration within the meaning of the **Arbitration and Conciliation Act, 1996**, or any statutory modification thereof. The award of the arbitrator or arbitrators as the case may be, shall be final and binding on the parties.
17. This MoU does not bear any legal action status. However, In case of any disputes not settled due to arbitration it will be subject to the courts of Bangalore Jurisdiction.

Each party hereby confirms its agreement to the terms contained in this MOU on this
18th day of JANUARY, ~~2020~~ 2021

On behalf of

INDIAN ACADEMY

ISDC GLOBAL


.....18.01.2021
Dr. E. Jerome Xavier
Principal


.....
Mr. Daya Murthy
Head – Institutional Partnerships

IN WITNESS WHEREOF, the parties hereto have caused this Memorandum of
Understanding to be executed as of the first date set forth above.

On this 18 day of January, 2021.

Witness:

1) 

2) 

Annexure 1

US CMA Master Classes by ISDC Trainers

Part	Module	Sessions
Part 1	Financial Planning, Performance & Analytics	60 Hrs
Part 2	Strategic Financial Management	60 Hrs
	TOTAL	120 Hours

Annexure 2

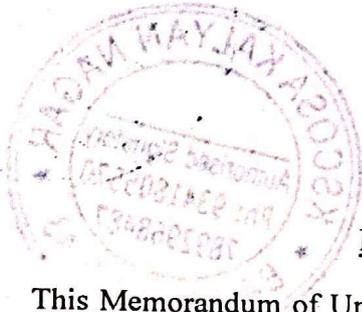
The applicable fees for the professional body to be paid to IMA directly

The mentioned IMA Fee is valid upto December 2020

IMA fee is as per the discretion of IMA and is subject to change.

<https://www.imanet.org/cma-certification/getting-started?ssopc=1>

	Particulars	Regular Fee	Discounted Fee	When to Pay?
IMA FEE	IMA - Professional Membership	\$ 39 Per year	\$ 100 for 3 years	At the time of admission.
	CMA Entrance Fee	\$ 188		
	Exam fee Part 1	\$311	\$ 200	At the time of taking up the Part 1 Exam.
	Exam fee part 2	\$311	\$ 200	At the time of taking up the Part 2 Exam.
	Total	\$ 927	\$ 500	



MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding is entered into at 2:00pm on Thursday, 10th March in the Year 2022.

BETWEEN:

ISDC Projects India Pvt. Ltd, trading as “ISDC - International Skill Development Corporation” and having its Regional Office at Lakshmi Narayan Complex, Palace Road, Vasanth Nagar, Bengaluru, Karnataka – 560052, represented by its **Sen. Manager – Partnerships Mr. Rajesh Poonia**, hereinafter referred to as “ISDC” or FIRST PARTY.

AND

INDIAN ACADEMY College, an affiliated college under Bangalore North University conducting Graduate and Post Graduate courses ; having its premises at 230, Meganahalli, Kalyan Nagar, Bengaluru, Karnataka 560043, India, represented by its Principal, **Dr. Srinidhi K Parthasarathi**, here in after referred to as “IADC-A” or the SECOND PARTY.

Both Parties as above have expressed a desire of entering a Memorandum of Understanding to meet their respective objectives, which are set out herein below.

WHEREAS

- a. The First Party - ISDC, a Skill Development & Education Company having expertise in Professional and Vocational Education and is interested in associating with the Second Party to develop, promote and deliver B.Com with ACCA which is integrated and accredited by the ACCA (Association of Chartered Certified Accountants); the Global Body for Professional Accountants.
- b. The Second Party –”IADC-A” College, on its part is interested in associating with First Party for using their expertise to develop, promote and deliver B.Com

- c. with ACCA as the Undergraduate program of "IADC-A" College with their Academic Autonomy which helps students to access ACCA Professional Qualification along with their Undergraduate degree from "IADC-A" College.

The purpose of this Memorandum of Understanding is to set forth the terms and conditions under which the Parties to this understanding shall conduct themselves during the subsistence of the Memorandum.

This Memorandum of Understanding ("MOU") is not intended to be, legally binding except as specifically set out below.

1. The First Party shall support the Second Party to develop the B.Com with ACCA program and the students enrolled for the B.Com with ACCA can access ACCA Professional Qualification along with their Undergraduate Degree from "IADC-A" College.
2. It is the responsibility of the Second Party to get the necessary approvals for running the program at "IADC-A" College. The final approved syllabus by the Board of Studies and Academic Council of the institution for B.Com with ACCA Programme with the exemptions availed from ACCA through accreditation process will be given as Annexure 2.
3. The First Party can use the name of the Second Party for promoting this Partnership. The Promotion of the said program has to be taken-care jointly by the parties. The Second Party can also use the name of First Party for advertisements and promotional purposes.
4. The admission criteria and the number of seats for the above said program are fixed by the Second Party in consultation with First Party.
5. The First Party facilitates train the trainer program to the Faculties of the Second Party, as per mutually agreed time schedule.
6. The First Party provides provides digital version of the relevant Learning Materials to the students enrolled.
7. The First Party provides additional training support/ master classes to the students enrolled for B.Com with ACCA and the number of hours per subject / per module is

given in the Annexure 1. If the number of students enrolled for the program is less than 30, the training will be done through Online/offline Mode by using the LMS of the First Party.

8. All responsibilities regarding registration of the students with ACCA should be dealt with, by the First Party. The students have to follow the Rules and Regulations of ACCA to appear the examination and pursue the qualification/ membership and designation.
9. The relevant fee to ACCA has to be paid by the students directly as per the rules and regulations set by the ACCA time to time as per Annexure 2.
10. Out of the Tuition Fees Collected, the Second Party has to make the necessary payment to the First party as per the table given below:

Courses/Offerings	ISDC Fees
B-Com with ACCA - UK	INR 40,000 Per Student for the Whole Course; to be paid in in 2 installments: - (a) INR 20,000 before 31 st October of the year enrolled (b) INR 20,000 before 28 th February of the succeeding year after enrolment.

Please note:

- a) This is for the Batch of 2021-22 while the same will continue for subsequent fresh batches.
- b) In case the student pays a part of the fee and drops out midway from the program, there shall be not any binding on the second party to pay the remaining fee installment to the first party. Further, the amount paid by the student will be forfeited and will not be refunded to the student.
- c) The mentioned fee to be collected by the Institution. ISDC will invoice "IADC-A" College based on the number of students enrolled for the course.

11. The complete list of Students of the course shall be provided to the First Party by the Second Party. Changes in Students, if any, shall be communicated by the representative of the Second Party to the First Party immediately.
12. The Institution will comply by providing the required documents for ACCA Accreditation, academic program guide with details of the integrated syllabi and sample question papers within 30 days from the date of MOU signing.

13. It is intended that the terms of this MoU will remain in force for an initial period of three years set out above i.e., the completion of First Batch or is otherwise terminated in accordance with the provisions of Clause (14). The MoU can be extended for further periods after the expiry of three years upon the parties mutually agreeing such extension in writing. The terms of this Memorandum may be modified at any time by both parties on mutual consent.

14. Either Party shall be entitled to terminate the MOU on 60 days' notice. The MoU will automatically terminate:

- If either Party becomes insolvent or is subject to a change of control;
- Any potential Binding Agreement would be unenforceable, void or illegal due to any statutory or regulatory requirements; or
- Terminates any Binding Agreement for cause.
- In the event of the termination of the agreement, the First Party agrees to complete the existing batches on agreed terms.

15. All Intellectual Property created by a Party in connection with the collaboration shall remain the property of that Party. The Parties agree that any material jointly created by the Parties for the collaboration shall be jointly owned (based on the Contributions) by the Parties, unless otherwise agreed in writing.

16. Where the collaboration reasonably requires the use by one Party of Intellectual Property that is owned by the other Party (the "IPR Owner"), the IPR Owner will license such rights to the other Party on a non-exclusive basis, without the right to sub-license, solely for the purpose and to the extent necessary in connection with the collaboration. Any such license will automatically terminate when the MoU is terminated.

17. For the purposes of this MoU, "Confidential Information" shall be all information of a confidential nature (whether written or oral) concerning the business and affairs of either Party which is obtained or received as a result of the discussions leading up to, the entering into or the performance of this MoU, including Financial Information, Training & Learning Material, Trade Secrets, University / College Lists, Trade and Commercial Details and Computer Software and Databases, the Contents of all Reports and Documentation prepared by either Party or on its behalf and any other information of a confidential nature designated by a Party as confidential; Each of the Parties shall at all times while this MoU remains in force and after it has terminated, keep confidential the Confidential Information except where:

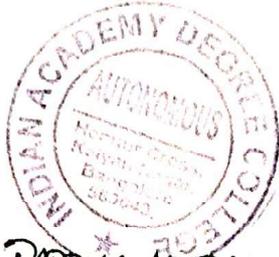
- The Confidential Information was already lawfully known, or became lawfully known to either of the Parties independently.
- Disclosure or use is necessary by either of the Parties (including their employees, agents and sub-contractors) for the proper and effective performance of this MoU;
- Disclosure is required by law to any Government, Governmental Department, Agency, Regulatory or Fiscal Body or Authority (whether national or foreign) and their Authorised Agents (including professional advisers);
- The Confidential Information is disclosed, in the case of ISDC, to another member of the ISDC Group of Companies.
- Each Party undertakes to the other that it will not disclose or make use of, for its own benefit, any of the Confidential Information of that other Party.

18. All disputes and differences of any kind whatever arising out of or in connection with this MoU shall be referred to the arbitration as per the Arbitration and Conciliation Act, 1996 and In case of any disputes not settled due to arbitration it will be subject to the courts of Bangalore Jurisdiction.

Each party hereby confirms its agreement to the terms contained in this MOU on this Thursday day of 10th March, 2022.

On behalf of

IADC-A



Dr. SRWIDHI. K. PARTHASARATHI

Name

PRINCIPAL

Designation

ISDC

Rajesh Poonia
RAJESH POONIA

Sen manager - ISDC

IN WITNESS WHEREOF, the parties hereto have caused this Memorandum of Understanding to be executed as of the first date set forth above.

On this 10th day of MARCH, 2022.

Witness:

IADC-A

Suryanarayana

Name

Suryanarayana

Designation

Director - Ac. Excellence

ISDC

Share Kabu

Head of Partnerships.



सत्यमेव जयते

INDIA NON JUDICIAL

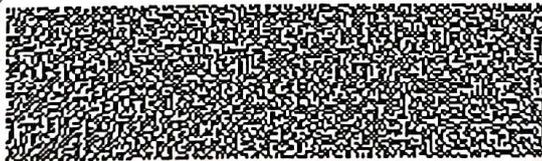
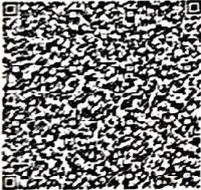
Government of Karnataka

Rs. 20

e-Stamp

Certificate No. : IN-KA27851618864177U
 Certificate Issued Date : 26-May-2022 01:11 PM
 Account Reference : NONACC/ kakscsa08/ KALYANNAGAR/ KA-BA
 Unique Doc. Reference : SUBIN-KAKAKSCSA0881949352102384U
 Purchased by : INDIAN ACADEMY DEGREE COLLEGE BANGALORE
 Description of Document : Article 37 Note or Memorandum
 Description : M O U
 Consideration Price (Rs.) : 0
 (Zero)
 First Party : INDIAN ACADEMY DEGREE COLLEGE BANGALORE
 Second Party : LINWAYS TECHNOLOGIES PVT LTD KOCHI
 Stamp Duty Paid By : INDIAN ACADEMY DEGREE COLLEGE BANGALORE
 Stamp Duty Amount(Rs.) : 20
 (Twenty only)

सत्यमेव जयते



Please write or type below this line

THE MEMORANDUM OF UNDERSTANDING

linways
learn in new ways

AND

INDIAN ACADEMY
Degree College - Autonomous

IN CONNECTION WITH
'PROVIDING SERVICES OF ACADEMIC MANAGEMENT SYSTEM'

Statutory Alert:

1. The authenticity of this Stamp certificate should be verified at 'www.shillestamp.com' or using e-Stamp Mobile App of Stock Holding
2. Any discrepancy in the details on this Certificate and as available on the website / Mobile App renders it invalid
3. The onus of checking the legitimacy is on the users of the certificate
4. In case of any discrepancy please inform the Competent Authority.

INDIA NON JUDICIAL GOVERNMENT OF KARNATAKA

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding is made on this **1st June 2022** between M/s Linways Technologies Pvt. Ltd, Integrated Startup Complex HMT Colony, North Kalamassery, Kalamassery, Ernakulam, Kerala 683503 represented by **Mr. Bastin Thomas, Managing Director of M/s Linways Technologies Pvt Ltd** (Here in after called "The First Party") and **Indian Academy Degree College, Hennur Main Road, Hennur, Bangalore-560053** represented by **Dr. Srinidhi K Parthasarathi, Principal of Indian Academy Degree College** (Hereafter called "The Second Party"). Both "The First Party" and "The Second Party" are collectively called "The Parties". Both "The First Party" and "The Second Party" can individually be called "The Party".

WHEREAS the First Party is engaged in the business of providing services of Academic Management System and is willing to offer the said service to the Second Party on a yearly basis on mutually agreeable terms and conditions.

AND WHEREAS the Second Party is the service receiver as per this MoU, is willing to accept the service provided by the First Party on a yearly basis on the basis of suitable consideration as fixed by the First Party and as per the terms and conditions set forth by both the parties in the MoU.

Accordingly, the Parties desire to create a framework on which to proceed with and to diligently pursue the activities they mutually agree and to implement it in a manner consistent with the terms set forth in this MoU.

NOW, THEREFORE, in recognition of agreement in principle, the Parties record their understanding as follows:

- 1) The Second Party will avail the services of Academic Management Services provided by the First Party in the period **1st June 2022 – 31st May 2025**, at the price mentioned below plus other taxes as imposed by Govt. of India or the tax departments or regulators of Govt. of India

Year	Modules	Monthly rate per account (Rs.)
1st Year (June 2022 to May 2023)	Academics + Admission + Exam Controller Module + Fee + Accreditation Module	Rs. 30/- + Tax
2nd Year Onwards (From June 2023)	Academics + Admission + Exam Controller Module + Fee + Accreditation Module	Rs. 35/- + Tax

- 2) The First Party will provide the modules or facilities given in annexure A as part of Academic Management Services to the Second Party.
- 3) During the validity period of this MoU (**01st June 2022 to 31st May 2025**), the First Party should provide necessary remote application support to the Second Party with regard to the services provided by the First Party.
- 4) The modes of communication for the technical support as mentioned in clause 3 above will be through Telephone, E-Mails, and Internet chatting.

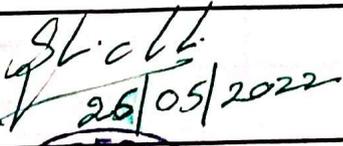
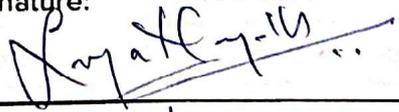
- 5) The application support as mentioned in the clause 3 above will be available on working days Monday to Saturday on 9:00 am to 6:00 Pm basis during the validity of this MoU.
- 6) The First Party will inform the service outages, which are under the control of the First Party, to the Second Party at least 6 hours before the occurrence of the respective service outage.
- 7) No Party shall disclose any information to any third party concerning the matters under this MoU. Any information, whether proprietary or not, to be contained in the reports or disclosed by one Party to the other Party, shall be kept strictly confidential by the receiving Party and shall not be disclosed to any third party without the prior written consent of the original disclosing party. This obligation is of binding nature and shall survive the termination or expiration of this MoU.
- 8) The billing period starts on **01st June 2022**. The Second Party will pay for the above-mentioned services at the rate mentioned in Point No. 1 on a quarterly basis, within the first five days of the following next quarter .The payment mode will be Post Payment Basis.The First Party can and have the right to terminate the said service provided to the Second Party within 30 calendar days from the due date of payment, in case of default made by the Second Party in payment of monthly or quarterly service charges.
- 9) The validity period of this MoU will be up to **01st June 2025**. The MoU can also be terminated by the mutual consent of both the Parties before the expiry of the validity period of this MoU. The second party has the right to terminate the said service any time if the service provided is not satisfactory, and in such an event, the first party will have to provide application support to the second party for the following 2 months. This MoU can

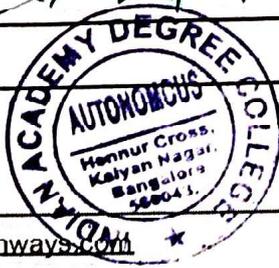
be renewed with the mutual consent of both the Parties at any point of time within the validity period of this MoU or after the validity period of this MoU.

- 10) No Party shall have the right or power to bind any other party to any clauses of MoU without the prior written consent of the other Party, except clause 7. The Parties do not intend merely by this MoU to create a partnership, corporation or an entity accessible or taxable under any laws of both the countries.
- 11) In the event of any difference(s) in opinions or dispute(s) arising out of the interpretation or application of the provisions of this MoU, the Parties shall immediately consult each other with the view to expeditiously resolve such differences or disputes in a spirit of mutual understanding and cooperation.
- 12) Assignment by a Party of its rights and obligations under this MoU to any other Party shall be subject to the consent of the other Party to the MoU.
- 13) The First party will provide a failover mechanism whereby the second party can export all data and reports into Excel format in the event of discontinuation of the service of AMS, and the first party will help , support and wait for 60 days for the completion of export of data before the termination of service as mentioned in clause 9. If the first party is discontinuing the service of AMS, and the first party will help , support and wait for 1 Year for the completion of export of data before the termination of service as mentioned in clause 9.

IN WITNESS WHEREOF, the Parties by their duly authorized respective representatives have caused this MoU to be executed as of the day and year first above written.

For and on behalf of First Party	In the presence of
Name: Mr. Bastin Thomas	Name: Mr. Alen Babu
Address: Linways Technologies Pvt Ltd Integrated startup complex Kinfra Hi-Tech park HMT Colony, Kalamassery, Kochi-683503	Address: Linways Technologies Pvt Ltd Integrated startup complex Kinfra Hi-Tech park HMT Colony, Kalamassery, Kochi-683503
Signature: 	Signature: 
Date: 26-05-2022	Date: 26/05/2022

For and on behalf of Second Party	In the presence of
Name: Dr. Srinidhi K Parthasarathi,	Name: Prof. K S Suryanarayana
Address: Indian Academy Degree College, Hennur Main Road, Hennur, Bangalore-560053	Address: Indian Academy Degree College, Hennur Main Road, Hennur, Bangalore-560053
Signature:  26/05/2022	Signature: 
Date:	Date: 26/5/2022



ANNEXURE A

Product & Module Details



Learning Management System (LMS)

Student Info Management	Students Planner	Video Library
Attendance Marking & Report Generation	Messaging/ Internal Messaging System	Online Infrastructure Evaluation
Online Classes	SMS/ Mail Alerts	Manage Committees
Online Examination & Analysis	Faculty Appraisal Management	Weak Student Identification
Performance Analysis using graphs	Transportation Management	Students Leave Management
Course Material Distribution	Online Faculty Evaluation/ Feedback	Online Assignments & Analysis
Timetable Management	Hostel Management	Document Repository
Publish Marks	Academic Audit Report	Internal Assessment
Lesson Planner	Parents Portal	Manage Extra Activities
Manage Exams	Digital Library	Progress Report



Admission Management

Online Application	Mark Entry Option	Certificate Upload
Graphical Representation	Index Mark Generation	Certificate Download
Applicant Details	Rank List Generation	Online Application Report
Customized Form	Eligibility Rule Filtration	Certificate Verification
Enquiry Forms	SMS/ Email Intimation	Allotment Rank List
Alumni Fundraising	PGW Integration	Single Screen Admit
Admission Stages	Offline Registration	Custom Report



Fee Management

Online Payment	Fine Management	Approve Refund
Challan Generation	Recurring Fee Management	Manual Challan Approval
Challan Payment	Fee Head with Subhead	Report & Analysis
Payment Receipt	Credit/ Refund Management	Custom Fee Group
Assign Fee	Simple/ Advance Template	Concessions
Scholarship & Concession	Wallet	Installments



Accreditation Management System

NAAC	NBA/ OBE
Data Collection Forms	SAR Report Generate
Monitor Staff Data	Defining CO, PO & PSO & their Mapping
Repository of Upload Certificate Report	Questions to CO Mapping
Consolidated & Criteria Based Report	Bloom's Taxonomy Question Mapping
Full privilege to IQAC Head	Assessment Tool Matrix
Report in College Website via API	CO, PO & PSO Report



Outcome Based Education (OBE)

Defining CO, PO & PSO's	12 types of Calculation Method
CO, PO & PSO's Mapping	Student centric & Course Centric CO -PO report
Assessments questions to CO Mapping	CO -PO attainment Matrix
Blooms Taxonomy Question Mapping	Assessment tool matrix



Choice Based Education

Define Elective Course	Online Registration
Criteria Based Elective Allocation	Collect Fee (If required)

This MEMORANDUM OF UNDERSTANDING (MOU) is entered into on this day, the 02nd of August, 2023, being the effective date,

BY AND BETWEEN

Indian Academy Degree College, Autonomous (IADC-A), Hennur cross, Hennur main road Kalyan Nagar, Bangalore-560043, Karnataka, India. (hereinafter referred to as the **FIRST PARTY**)

AND

Ekosight Technologies Pvt Ltd having its registered office located at # 677, 1st Floor, Suite # 1028, 27th Main 13th Cross, Sector 1 HSR Layout Bangalore KA 560102 (hereinafter referred to as the **SECOND PARTY**)

(First Party and Second Party are hereinafter jointly referred to as 'Parties' and individually as 'Party')

WHEREAS:

- A) First Party is a regional Degree College- Autonomous and has a legacy of over 28 years of experience with the leadership of its founder Dr T. Somasekhar . It has pioneered in academic excellence through NAAC accreditation recently with A++ rating with 3.61 score.
- B) The Second Party is an Agritech start-up company started in 2021 by its co-founder, Mr. Dhiraj Choudhary and Ms Saumya Rawat, with a vision is to make soil testing highly accurate, accessible, affordable and sustainable.
- C) Both Parties, being legal entities in themselves, desire to sign this MOU.

1. PROPOSED INTERACTIONS

- 1.1 The interactions between the First Party and Second Party will mainly focus on "Research and Development" in the broad area of Agri-soil biotechnology, with a particular interest in developing Agrotech products.
- 1.2 The nature of interactions includes, but not limited to "Contract Research" for the development of on-site soil test for microbial biomass and fungal to bacterial ratio. This work can be submitted under a second party to a suitable funding agency with joint efforts.
- 1.3 The first party intends to place its Life Sciences PG students as interns with the second party as a part of the academic/ industrial project programme
- 1.4 The second party intent to get started with the above R&D work through incubation facility at first party.
- 1.5 The outcome of the collaborative research between Party 'A' and Party 'B' in the form of publications, patents, copy right etc. shall be jointly shared in a mutually agreeable manner based on the role and contributions of the members of Party 'A and Party 'B' as well as the nature and extent of resource involvement of the two parties.

Dhiraj Choudhary

Cherry



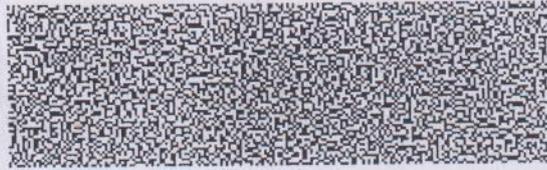
सत्यमेव जयते

INDIA NON JUDICIAL

Government of Karnataka

e-Stamp

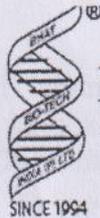
Certificate No. : IN-KA28872036642372V
Certificate Issued Date : 17-Jul-2023 11:55 AM
Account Reference : NONACC (FI)/ kagcsl08/ NARAYANAPPA LAYOUT/ KA-GN
Unique Doc. Reference : SUBIN-KAKAGCSL0834621917472671V
Purchased by : INDIAN ACADEMY DEGREE COLLEGE AUTONOMOUS BANGALORE
Description of Document : Article 37 Note or Memorandum
Description : MEMORANDUM OF UNDERSTANDING
Consideration Price (Rs.) : 0
(Zero)
First Party : INDIAN ACADEMY DEGREE COLLEGE AUTONOMOUS BANGALORE
Second Party : BHAT BIOTECH INDIA PVT LTD BANGALORE
Stamp Duty Paid By : INDIAN ACADEMY DEGREE COLLEGE AUTONOMOUS BANGALORE
Stamp Duty Amount(Rs.) : 100
(One Hundred only)



Please write or type below this line

MEMORANDUM OF UNDERSTANDING

INDIAN ACADEMY
Degree College - Autonomous



BHAT BIO - TECH INDIA (P) LTD.
INFINITE POSSIBILITIES FOR A HEALTHIER TOMORROW

INDIAN ACADEMY DEGREE COLLEGE
AUTONOMOUS
HENNUR MAIN ROAD
BANGALORE - 560022

Statutory Alert:

1. The authenticity of this Stamp certificate should be verified at 'www.shillestamp.com' or using e-Stamp Mobile App of Stock Holding. Any discrepancy in the details on this Certificate and as available on the website / Mobile App renders it invalid.
2. The onus of checking the legitimacy is on the users of the certificate.

This MEMORANDUM OF UNDERSTANDING (MOU) is entered into on this day, the 19th of July, 2023, being the effective date,

BY AND BETWEEN

Indian Academy Degree College, Autonomous (IADC-A), Hennur cross, Hennur main road Kalyan Nagar, Bangalore-560043, Karnataka, India. (hereinafter referred to as the **FIRST PARTY**)

AND

Bhat Biotech India Pvt Ltd located at Veerasandara industrial area, Electronic city, Bangalore-5600100, Karnataka (hereinafter referred to as the **SECOND PARTY**)

(First Party and Second Party are hereinafter jointly referred to as 'Parties' and individually as 'Party')

WHEREAS:

- A) First Party is a regional Degree College- Autonomous and has a legacy of over 28 years of experience with the leadership of its founder Dr T.Somasekhar . It has pioneered in academic excellence through NAAC accreditation recently with A++ rating with 3.61 score.
- B) The Second Party is manufacturer of medical diagnostic products with over 28 years of experience with the leadership of its founder Dr Shama Bhat. It has pioneered in biotech industry through CE, ISO 13485, and DCGI licensing for their IVD products.
- C) Both Parties, being legal entities in themselves desire to sign this MOU.

1. PROPOSED INTERACTIONS

- 1.1 The interactions between the First Party and Second Party will mainly focus on "Research and Development" in the broad area of biotechnology, with a particular interest in developing IVD products (Molecular diagnostics, immunodiagnostics, Biosensor etc.).
- 1.2 The nature of interactions includes, but not limited to "Contract Research" for the development of various customized consumable products widely used in various immunoassays and also using its animal facility to perform some of the research projects at first party
- 1.3 The first party intends to place its Life Sciences PG students as interns with the second party as a part of the academic/ industrial visit.
- 1.4 The second party agrees to offer training in the areas of Hybridoma technology and rDNA technology to students and faculty of IADC-A. The detailed nature of training and modus operand will be worked out by both the parties.
- 1.5 The second party agrees to provide access for the animal facility for any collaborative research undertaken between the first and the second parties.
- 1.6 The general terms of co-operation shall be governed by this MOU. The Parties

shall cooperate with each other and shall, as promptly as is reasonably practical, enter into all relevant agreements, deeds and documents (the 'Definitive Documents') as may be required to give effect to the actions contemplated in terms of this MOU. The term of Definitive Documents shall be mutually decided between the Parties. Along with the Definitive Documents, this MOU shall represent the entire gamut of understanding as to the subject matter hereof and shall supersede any prior understanding between the Parties on the subject matter hereof.

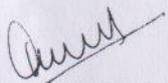
2. VALIDITY

- 4.1 This Agreement will be valid up to ONE YEAR from the date of signing the MOU or until it is expressly terminated by either party on mutually agreed terms, during which period both the parties as the case may be, will take effective steps for implementation of this MOU.
- 4.2 Both Parties may terminate this MOU upon 30 calendar days' notice in writing. In the event of Termination, both parties have to discharge their obligations.

3. RELATIONSHIP BETWEEN THE PARTIES

- 3.1 It is expressly agreed by First Party and Second Party that the relationship established under this MOU shall not be construed as a partnership.
- 3.2 Any divergence or difference derived from the interpretation or application of the MoU shall be resolved as follows:
- 1) Primarily by Mutual understanding and consent
 - 2) Secondly by arbitration between the parties as per the Arbitration and Conciliation Act, 1996.

IN WITNESS WHEREOF, the Parties have duly executed this MoU as of the SOW Effective Date.



Dr N. Thilaka

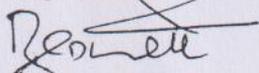
Principal

IADC-A, Bengaluru

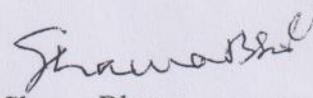
FIRST PARTY

Witnesses

1. Dr N.S.Venkatesh
Principal Scientist, IADC-A



2. Dr. B.Dwarakanath
Research Advisor, IADC-A



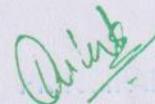
Dr. Shama Bhat

Chairman & MD

Bhat Biotech India Pvt Ltd, Bangalore



SECOND PARTY



INDIAN ACADEMY DEGREE COLLEGE
AUTONOMOUS
HENNUR MAIN ROAD
BENGALURU - 43



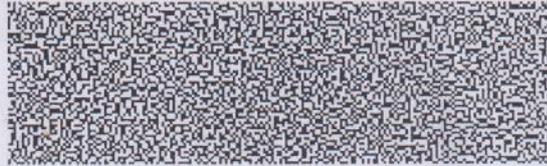
सत्यमेव जयते

INDIA NON JUDICIAL

Government of Karnataka

e-Stamp

Certificate No. : IN-KA22343234193906V
Certificate Issued Date : 11-Jul-2023 11:23 AM
Account Reference : NONACC (FI)/ kagcsl08/ NARAYANAPPA LAYOUT/ KA-GN
Unique Doc. Reference : SUBIN-KAKAGCSL0822038205158000V
Purchased by : INDIAN ACADEMY DEGREE COLLEGE AUTONOMOUS BANGALORE
Description of Document : Article 4 Affidavit
Description : AFFIDAVIT
Consideration Price (Rs.) : 0
(Zero)
First Party : INDIAN ACADEMY DEGREE COLLEGE AUTONOMOUS BANGALORE
Second Party : ACRONYMINGREDIENTS INDIA PRIVATE LIMITED BANGALORE
Stamp Duty Paid By : INDIAN ACADEMY DEGREE COLLEGE AUTONOMOUS BANGALORE
Stamp Duty Amount(Rs.) : 20
(Twenty only)



Please write or type below this line

MEMORANDUM OF UNDERSTANDING

ACRONYM

Acronymingredients India
Pvt. Ltd.

Quint

INDIAN ACADEMY
Degree College - Autonomous

INDIAN ACADEMY DEGREE COLLEGE
AUTONOMOUS
HENNUR MAIN ROAD
BANGALORE
Page 1 of 4

Statutory Alert:

1. The authenticity of this Stamp certificate should be verified at 'www.shcilestamp.com' or using e-Stamp Mobile App of Stock Holding.
2. Any discrepancy in the details on this Certificate and as available on the website / Mobile App renders it invalid.
3. The onus of checking the legitimacy is on the users of the certificate.

This MEMORANDUM OF UNDERSTANDING (MOU) is entered into on this day, the 11th of July, 2023, being the effective date,

BY AND BETWEEN

Indian Academy Degree College, Autonomous (IADC-A), Hennur cross, Hennur main road Kalyan Nagar, Bangalore-560043, Karnataka, India. (hereinafter referred to as the **FIRST PARTY**)

AND

Acronymingredients India Private Limited, Located at 443/1, Simhapuri Township, Jigani Village, Jigani Hobli, Anekal Taluk, Bangalore Urban- 560105, Karnataka, India. (hereinafter referred to as the **SECOND PARTY**)

(First Party and Second Party are hereinafter jointly referred to as 'Parties' and individually as 'Party')

WHEREAS:

- A) First Party is a regional Degree College- Autonomous and has a legacy of over 28 years of experience with the leadership of its founder Dr T. Somasekhar. It has pioneered in established its academic excellence through NAAC accreditation recently with A++ rating with a score of 3.61.
- B) The Second Party is a manufacturer of Food products with over 5 years of experience with the leadership of its Co-founder Mr. Sivakumar Durairajan. It has pioneered Natural Ingredients Manufacturing and Supply to various food processing industries in India and abroad.
- C) Both Parties, being legal entities in themselves desire to sign this MOU.

1. PROPOSED INTERACTIONS

- 1.1 The interactions between the First Party and Second Party will mainly focus on "Research and Development" in the broad area of biotechnology, with a particular interest in certain areas of products related to Food development such as Food safety/quality diagnostics, food processing enzymes etc.
- 1.2 The nature of interactions between IADC-A and Acronym includes, but not limited to "Contract Research" for the development of various customized consumable products and food quality testing services using first party facility and its student interns to perform some of the research cum client projects of second the party.




PRINCIPAL
INDIAN ACADEMY DEGREE COLLEGE
HENNUR MAIN ROAD, KALYAN NAGAR
BANGALORE-560043, KARNATAKA

- 1.3 The first party intends to place its Life Sciences PG students as interns with the second party as a part of the academic/ industrial visit.
- 1.4 The second party agrees to offer training in the areas of food processing to students and faculty of IADC-A. The detailed nature of training and modus operandi will be worked out by both the parties.
- 1.5 The second party agrees to offer skill development and entrepreneurship training programme to IADC-A Life Science students.
- 1.6 The outcome of the collaborative research between Party 'A' and Party 'B' in the form of publications, patents, copy right etc shall be jointly shared in a mutually agreeable manner based on the role and contributions of the members of Party 'A and Party 'B' as well as the nature and extent of resource involvement of the two parties.
- 1.7 The general terms of co-operation shall be governed by this MOU. The Parties shall cooperate with each other and shall, as promptly as is reasonably practical, enter into all relevant agreements, deeds and documents (the 'Definitive Documents') as may be required to give effect to the actions contemplated in terms of this MOU. The term of Definitive Documents shall be mutually decided between the Parties. Along with the Definitive Documents, this MOU shall represent the entire gamut of understanding as to the subject matter hereof and shall supersede any prior understanding between the Parties on the subject matter hereof.

2. VALIDITY

- 4.1 This Agreement will be valid up to TWO YEARS from the date of signing the MOU or until it is expressly terminated by either party on mutually agreed terms, during which period both the parties as the case may be, will take effective steps for implementation of this MOU.
- 4.2 Both Parties may terminate this MOU upon 30 calendar days' notice in writing. In the event of Termination, both parties have to discharge their obligations.

3. RELATIONSHIP BETWEEN THE PARTIES

- 3.1 It is expressly agreed by First Party and Second Party that the relationship established under this MOU shall not be construed as a partnership.



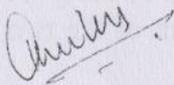
A handwritten signature in green ink, appearing to be "Anish".

Page 3 of 4

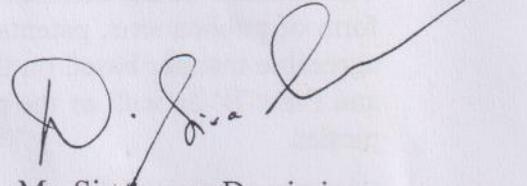
INDIAN ACADEMY DEGREE COLLEGE
AUTONOMOUS
HENNUR MAIN ROAD
BENGALURU - 560043

- 3.2 Any divergence or difference derived from the interpretation or application of the MoU shall be resolved as follows:
- 1) Primarily by Mutual understanding and consent and
 - 2) Secondly by arbitration between the parties as per the Arbitration and Conciliation Act, 1996.

IN WITNESS WHEREOF, the Parties have duly executed this MoU as of the SOW Effective Date.



Dr N. Thilaka
Principal
IADC-A, Bengaluru



Mr. Sivakumar Durairajan
Co-Founder
Acronymingredients India Pvt Limited,
Bangalore

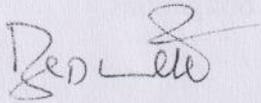
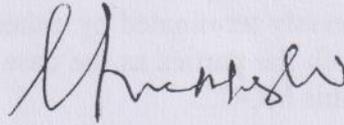
FIRST PARTY

SECOND PARTY

PRINCIPAL
INDIAN ACADEMY DEGREE COLLEGE
AUTONOMOUS
HENNUR MAIN ROAD
BENGALURU - 43

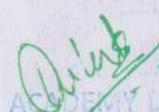
Witnesses

1. Dr N.S.Venkatesh
Principal Scientist, IADC-A



2. Dr. B. S. Dwarakanath
Research Advisor, IADC-A

Page 4 of 4



INDIAN ACADEMY DEGREE COLLEGE
AUTONOMOUS
HENNUR MAIN ROAD
BENGALURU - 43



தமிழ்நாடு தமில்நாடு TAMILNADU Lupex Biotechnologies DN 311949
Chennai - 600058

04 MAY 2024

MEMORANDUM OF UNDERSTANDING

S.R. Pandithai
S.R. PANDITHAI
L.NO.: 184/B7/97
4434, MUGAPPAIR WEST,
CHENNAI - 600 037.

This MEMORANDUM OF UNDERSTANDING (MOU) is entered into on this day, Monday, 6th of May, 2024, 2023, being the effective date,

BY AND BETWEEN

INDIAN ACADEMY
Degree College - Autonomous

LUPEX

Indian Academy Degree College, Autonomous (IADC-A), Hennur cross, Hennur Main Road Kalyan Nagar, Bangalore-560043, Karnataka, India. (hereinafter referred to as the **FIRST PARTY**)

AND

LUPEX BIOTECHNOLOGIES PRIVATE LIMITED having its No. B9, Munusamy Street, 2nd Cross, Chennai-600058 Tamil Nadu, India Represented by **DIRECTOR**, Mr. R. Pizhanivel., **PARTY OF THE SECOND PART.**

(First Party and Second Party are hereinafter jointly referred to as 'Parties' and individually as 'Party')



WHEREAS:

- A) First Party is a regional Degree College- Autonomous and has a legacy of over 28 years of experience with the leadership of its founder Dr T. Somasekhar. It has pioneered in academic excellence through NAAC accreditation recently with A++ rating with 3.61 score.
- B) The Second Party is an organization, established in the year 2023, involved in development of innovative technologies to expedite the R & D process and reduce the development cost. Its corporate and R & D facilities are located in Chennai.

The organization deals with the following areas of research such as Molecular Biology, Immunology, Assay Development, Bio-Pharma, Cell culture, Agricultural Biotechnology, Bio-Polymer, etc.,

- C) Both Parties, being legal entities in themselves desire to sign this MOU.

1. PROPOSED INTERACTIONS

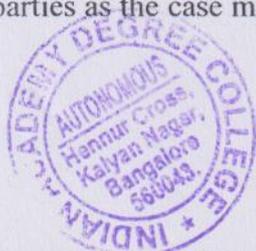
- 1.1 The interactions between the First Party and Second Party will mainly focus on three broad areas namely

- a) "Research and Development" in the area of biotechnology, with a particular interest in developing Nanozyme /HRP platform for specific application in Biotechnology.
- b) Contract research manufacturing of Specialty reagents used in Biotech industry/Research/CRO. In this, to start with TMB monoreagent and ELISA Coating plate stabilizers will be undertaken as a priority and modality of the details will be worked out at the time of execution through specific contract agreement.
- c) Industrial training program will be jointly organized pertaining to Molecular biology techniques to students at IADC-A at CLSR-lab. In this modality of the details will be worked out at the time of execution through specific contract agreement.

- 1.2 The general terms of co-operation shall be governed by this MOU. The Parties shall cooperate with each other and shall, as promptly as is reasonably practical, enter into all relevant agreements, deeds and documents (the 'Definitive Documents') as may be required to give effect to the actions contemplated in terms of this MOU. The term of Definitive Documents shall be mutually decided between the Parties. Along with the Definitive Documents, this MOU shall represent the entire gamut of understanding as to the subject matter hereof and shall supersede any prior understanding between the Parties on the subject matter hereof.

2. VALIDITY

- 2.1 This Agreement will be valid up to THREE YEARS from the date of signing the MOU or until it is expressly terminated by either party on mutually agreed terms, during which period both the parties as the case may be, will take effective steps for implementation



PRINCIPAL Page 2 of 3
INDIAN ACADEMY DEGREE COLLEGE
HENNUR MAIN ROAD, KALYAN NAGAR
BANGALORE-560043, KARNATAKA

of this MOU.

2.2 Both Parties may terminate this MOU upon 30 calendar days' notice in writing. In the event of Termination, both parties have to discharge their obligations.

3. RELATIONSHIP BETWEEN THE PARTIES

3.1 It is expressly agreed by First Party and Second Party that the relationship established under this MOU shall not be construed as a partnership.

3.2 Any divergence or difference derived from the interpretation or application of the MoU shall be resolved as follows:

- a. Primarily by Mutual understanding and consent and
- b. Secondly by arbitration between the parties as per the Arbitration and Conciliation Act, 1996.

IN WITNESS WHEREOF, the Parties have duly executed this MoU as of the SOW Effective Date.

FIRST PARTY

Dr N. Thilaka

Principal

IADC-A, Bengaluru
INDIAN ACADEMY DEGREE COLLEGE
AUTONOMOUS
HENNUR MAIN ROAD
BENGALURU - 43

SECOND PARTY

Mr. Mr. R. Pazhanivel

Director

LUPEX BIOTECHNOLOGIES
PRIVATE LIMITED

Witnesses

1. Dr N.S.Venkatesh
Principal Scientist, IADC-A

2. Dr. B. Dwarakanath
Research Advisor, IADC-A



INDIAN ACADEMY DEGREE COLLEGE
AUTONOMOUS
HENNUR MAIN ROAD
BENGALURU - 43



सत्यमेव जयते

INDIA NON JUDICIAL

Government of Karnataka

Rs. 20

e-Stamp

Certificate No. : IN-KA87106096532279W
 Certificate Issued Date : 20-Apr-2024 05:11 PM
 Account Reference : CSCACC (GV)/ kacsceg07/ KA-GNSHI0955/ KA-GN
 Unique Doc. Reference : SUBIN-KAKACSCEG0733768572844415W
 Purchased by : DR BIOSCIENCES LLP
 Description of Document : Article 5(c)(ii) Agreement or its records or MOA - In any other case
 Property Description : M O U
 Consideration Price (Rs.) : 2,00,000
 (Two Lakh only)
 First Party : DR BIOSCIENCES LLP
 Second Party : INDIAN ACADEMY DEGREE COLLEGE BANGALORE
 Stamp Duty Paid By : DR BIOSCIENCES LLP
 Stamp Duty Amount(Rs.) : 20
 (Twenty only)

सत्यमेव जयते



CSC ID
222716170017

RS. 20
20-APR-2024 05:11 PM

Please write or type below this line

Memorandum of Understanding

This Memorandum of Understanding (hereinafter referred to as "MOU") is made and executed on Monday .Dated 22/04/2024 at Bangalore.

Between

Indian Academy Degree College (IADC)- Autonomous, Bangalore and DR Biosciences, Bangalore. Both the parties enter this formal collaboration in the form of MOU to carry

Statutory Alert:

1. The authenticity of this Stamp certificate should be verified at 'www.shcilestamp.com' or using e-Stamp Mobile App of Stock Holding. Any discrepancy in the details on this Certificate and as available on the website / Mobile App renders it invalid.
2. The onus of checking the legitimacy is on the users of the certificate.

out the research project "*Development of a Nano Optical Biosensor Kit*" using the RKVY RAAFTAAR Grant in Aid Support of Five Lakh Rupees (INR 5 Lakhs) received from NAAVIC.

This project was submitted by DR Biosciences during Oct,2022 along with Dr N.S.Venkatesh as a Principal Scientist, based on background IPR owned by BIOCHEMIGEN entitled "NANO-OPTICAL BIOSENSOR SYSTEM & ITS DETECTION METHODS TEMP/E-1/47870/2022-CHE, and subsequently the same was approved and sanctioned by ICAR-NAAVIC in its current form during the period Jan,2024.

This proposed research project has the following objective:

1. Nano-Optical Biosensor assay development, suitable for Animal, Agri, Food, Environment, Human i.e. More Primarily towards detection of pesticides in fruits and vegetable samples, by using lateral flow assay platform.

The plan for a successful execution of this grant-in-aid research project is as follows:

- 1) The scientific and technical component of this research Project will be executed at IADC-A under the supervision of Dr. N.S. Venkatesh, who was involved as a technical prime mover of this project at the time of submission
- 2) The administrative aspect of the project will be handled by DR Biosciences.
- 3) One student holding a Master Degree in Sciences domain will be made available at IADC-A from DR Biosciences to execute the project work under the guidance of Dr. N.S. Venkatesh.
- 4) All chemicals, reagents and other utilities required for the project will be procured by DR Biosciences from the grant money and provided to IADC.
- 5) Any intellectual property rights in the form of Patent that arises from this research work will be held jointly between DR Biosciences, Biochemigen and IADC-A.
- 6) Any additional items in the form of consumables, special services and any other item required for enhancing the value of this project will also be provided by Dr Bioscience to IADC-A.
- 7) The stages for report generation and for the release of second tranche of project funding is as given below
 - i) Optimization of Lateral flow assay components (1st Instalment of funds)
 - ii) Lateral flow Assay development using analyte (1st Instalment of funds)

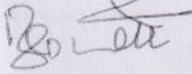
iii) Testing of samples using lateral flow assay vs gold standard method (2nd Instalment of funds)

8) The total duration of the project is 15 months

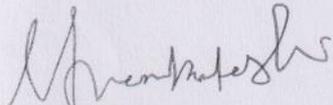
9) The project completion report will be submitted by DR Bioscience in consultation with IADC-A. The report will reflect that a part of the project work was carried out at IADC-A as Dr. N. S. Venkatesh, one of the investigators at the time of submission of the proposal is currently working at IADC-A. IADC-A will continue to provide all professional support to DR Bioscience in dealing with any technical issue arising on the technical content of the project completion report.

For

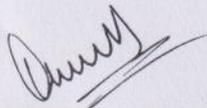
Indian Academy Degree College



Dr B.S. Dwarakanath



Dr N.S. Venkatesh



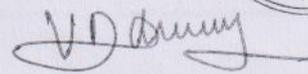
Dr N. Thilaka, Principal, IADC-A

PRINCIPAL
INDIAN ACADEMY DEGREE COLLEGE
AUTONOMOUS
HENNUR MAIN ROAD
BENGALURU - 43

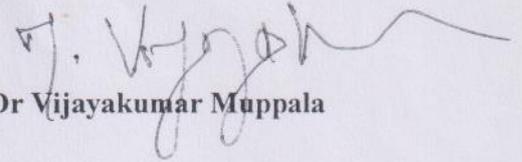


For

DR Biosciences LLP



Dr V Damodara Reddy



Dr Vijayakumar Muppala





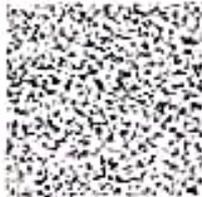
सत्यमेव जयते

INDIA NON JUDICIAL

Government of Karnataka

e-Stamp

Certificate No. : IN-KA50191473482990W
 Certificate Issued Date : 05-Jul-2024 11:05 AM
 Account Reference : NONACC (FI)/ kagcs108/ NARAYANAPPA LAYOUT/ KA-GN
 Unique Doc. Reference : SUBIN-KAKAGC/SL0855364823341818W
 Purchased by : INDIAN ACADEMY DEGREE COLLEGE AUTONOMOUS
 Description of Document : Article 4 Affidavit
 Property Description : M O U
 Consideration Price (Rs.) : 0
 (Zero)
 First Party : BIOZEEN SHELCEL BIOZEEN TECHNOLOGIES PVT LTD
 Second Party : INDIAN ACADEMY DEGREE COLLEGE AUTONOMOUS
 Stamp Duty Paid By : INDIAN ACADEMY DEGREE COLLEGE AUTONOMOUS
 Stamp Duty Amount (Rs.) : 100
 (One Hundred only)



Please refer to the back of this stamp

THIS MEMORANDUM OF UNDERSTANDING IS MADE ON THE 05 JULY 2024

between

BIOZEEN – Shelcel Biozeen Technologies Pvt. Ltd.

(Hereafter referred to as BiOZEEN)

49/2, Gubbi cross, Hennur- Bagalur Road, Bangalore-560 077

and

Indian Academy Degree College- Autonomous (IADC-A)

Hennur Main Road, Bangalore-560 043

MISSION

In accordance with the mutual desire to enhance academia-industry interaction and promote knowledge sharing, BiOZEEN and IADC-A enter into this formal statement of collaboration in the form of a Memorandum of Understanding (MoU) with the objective of enabling students and academic staff to become acquainted with industrial biotechnology.

OBJECTIVES

A. INDUSTRIAL TRAINING PROGRAM IN INDUSTRIAL BIOTECHNOLOGY

1. BiOZEEN shall offer training courses to the UG and PG students of IADC-A in the area of Industrial Biotechnology using the company's infrastructure based in Bangalore. The course modules are elaborated in Annexure 1 and can be further customized to align with the curriculum of IADC-A, Bangalore. Apart from the modules listed, training programs can also be customized based on requirement, as specified by IADC.
2. The course fee for the training programs will be mutually agreed upon. The course fee would include expenses towards Lab consumables, Lab utilities, ~~forming~~ and certificate. BiOZEEN would consider a course fee reduction by Max. 10% if the number of trainees per course is greater than 10.
3. IADC-A agrees to facilitate the enrollment of a minimum of 15 students per academic calendar year.
4. BiOZEEN and IADC-A shall explore opportunities for conducting joint conferences and workshops on current trends in biologics research and manufacturing at their respective campuses in Bangalore.
5. BiOZEEN shall provide Faculty Development Programs to the Faculty of Sciences (Biotechnology, Microbiology, Biochemistry, Chemistry, Genetics and Zoology) on mutually agreeable subject areas. The training cost for such programs will be borne by the candidate(s) or delegates in a pre-determined manner and the training sessions will have a minimum of five participants per batch. The course structure and schedule will be determined from time to time as agreed upon by both the parties.

B. RESEARCH & DEVELOPMENT

1. BiOZEEN and IADC-A shall promote active interaction among their staff and explore possibilities for undertaking commercial or public-funded joint research and development projects. Scientists at both institutions are encouraged to apply for sponsored or funded projects keeping in view the interests and philosophies of the respective institutions.
2. Research findings resulting from collaborative work between BiOZEEN and IADC-A shall be made available to the public after the approval of both the parties.



3. Research findings published by either party will acknowledge the other party's contribution, but the party publishing them will be entirely responsible for the conclusions and interpretations reported in the research publications.
4. The rights over, or proprietorship of, any patents, products, technology development or other innovations, jointly developed by BIOZEEN and IADC-A, shall be jointly owned as per the agreement to be signed by both the parties on a case-by-case basis. Otherwise, BIOZEEN and IADC-A agree that any patents, products, technology development or other innovations produced by either of them during the period of the MoU, with no contribution from the human resources of the other party, shall be the sole property of the respective establishment.

C. DURATION OF THE MOU

1. The Agreement shall be valid for a period of 2 years from the date of its execution. The agreement may be renewed based on mutually agreed terms and conditions.
2. The agreement may be terminated in the event of either party breaching the terms and conditions mentioned above. In such cases, students already enrolled in/undergoing a course at BIOZEEN shall continue in, and complete, the course, for which purpose this agreement shall be operative.
3. Either party can terminate the agreement giving 30 days' notice.

D. AMENDMENT TO THE MOU

During the operation of the MoU, circumstances may arise that may call for changes to the MoU; in such cases, the changes to be made shall be mutually discussed and agreed upon by both the parties.

E. BREACH OF AGREEMENT

If either party is found violating the above-mentioned terms and conditions of the MoU, the other party may terminate the MoU with 30 days' notice.

F. ARBITRATION

Any dispute arising with regard to any aspect of the Agreement shall be resolved through mutual consultation and with the written consent of both the parties to the MoU. In case a settlement is not arrived at, the dispute shall come under the purview and provisions of the Indian Arbitration and Conciliation Act, 1996 of the Government of India, and the area of Jurisdiction will be Bangalore City.



G. JURISDICTION

In the event of any dispute between the two parties only the Courts in Bangalore city shall have exclusive jurisdiction over it. However, no litigation shall be preferred by either party until Arbitration has been resorted to and proved to be unfruitful.

Having gone through each and every condition of this agreement and having understood it clearly and perfectly both the parties affix their signatures below as attesting to this deed on the 5th of July 2024.

For Indian Academy Degree College- Autonomous

Signature: 

Name: Dr. N. Thilaka
Principal
INDIAN ACADEMY DEGREE COLLEGE
Designation: Principal, IADC-A
HENNUR MAIN ROAD
(Authorized Representative with seal)

WITNESS:
Signature: 

Name: Prof. P. Rajarajan
Designation: Vice Principal
IADC-A

Signature: 

Dr. P. Malaiyarasa Pandian
Programme Coordinator
Dept. of Life Science-
Microbiology, IADC-A

Place: Bangalore

Date: 05.07.2024

For BIOZEEN – Shelcel Biozeen Technologies Pvt. Ltd.

Signature: 

Name: Sarin Simon Kunnath
Designation: Senior Manager- Projects,
BIOZEEN

(Authorized Representative with seal)

For BANGALORE BIOTECH LABS PVT. LTD.

Signature: 

Name: Dr. H. NELLAIYAH
Head of Health and Development
Biozeen
Designation: Head – R&D and Training

Place: Bangalore

Date: 05.07.2024

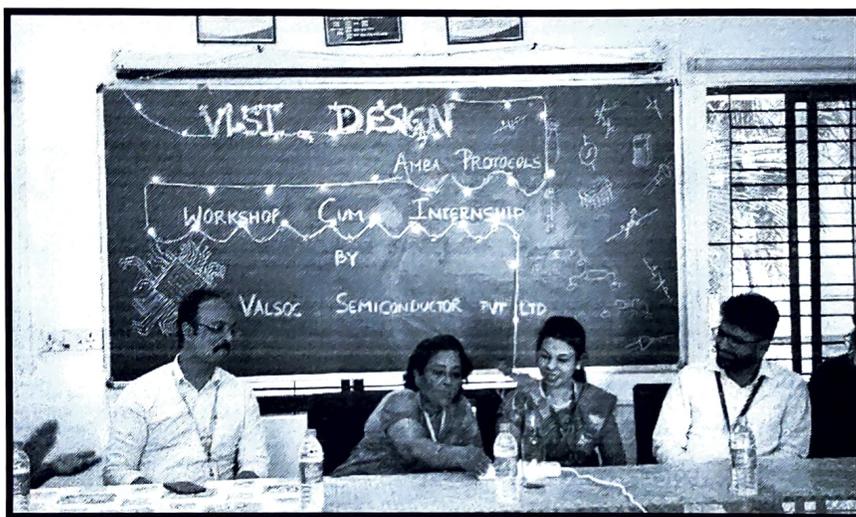


INDIAN ACADEMY

Degree College - Autonomous

A Report on: An Internship-cum-Workshop on VLSI Design: AMBA Protocols
Organized by Department of Physical Sciences- Physics & Electronics
in Association with VALSOC SEMICONDUCTORS INDIA Pvt. Ltd.

The Department of Physics and Electronics at Indian Academy Degree College-Autonomous recently organized an internship-cum-workshop program in collaboration with VALSOC Semiconductors Pvt. Ltd. This program was conducted to provide students a hands-on industrial experience in the domain of VLSI design and the AMBA (Advanced Microcontroller Bus Architecture) protocols. The program was held during the afternoon sessions between 18th March to 12th April 2024.

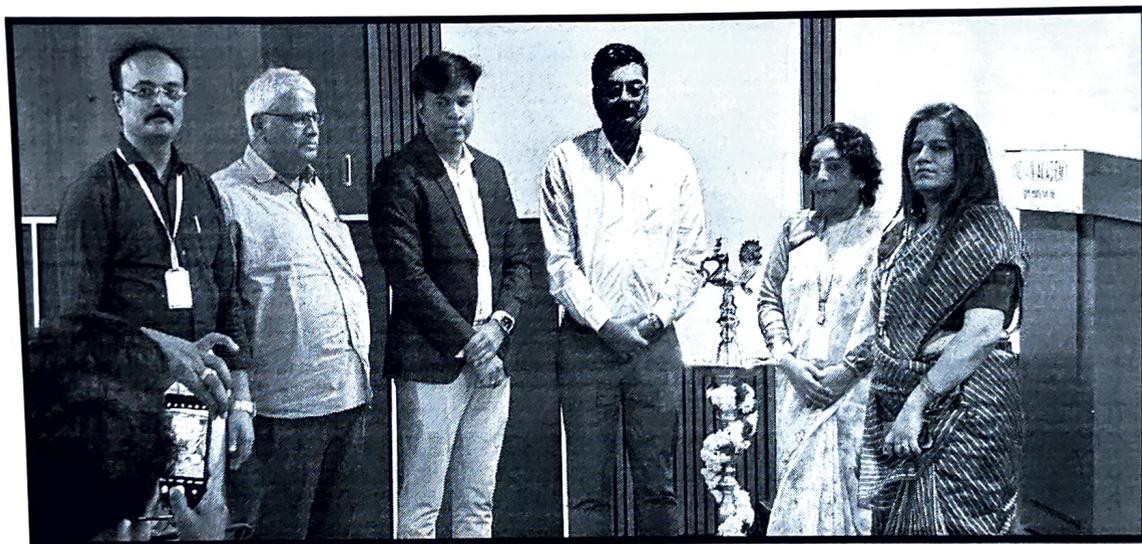


Inauguration of Internship Program by turning on LED Lamps at Physics Lab on 18th March 2024. (Right to Left : Mr. Yadgir- Trainer, VALSOC Semiconductor, Ms. Shivani, DV Engineer at VALSOC Semiconductor, Dr. N Thilaka, Principal IADC-A and Prof. P Rajarajan, Vice- Principal, IADC-A)



This internship program was designed and recommended by Prof. K Aruna, Assistant Professor, Department of Physical Sciences- Electronics. She has made tremendous effort in identifying an appropriate industry for the training and internship. Mr. Vamshikant Reddy, Vice- President, VALSOC semiconductor had kindly accepted to conduct the industrial training at our premises. The training sessions were conducted by Mr. Yadigir, Mr. Ravi and Mr. Nithin who were designated as Engineers at VALSOC Semiconductors.

Students had an opportunity to understand the importance of digital electronics from an industrial perspective and they were able to explore avenues of *hardware description language* (HDL) much more in detail than their regular syllabus in academia. The beneficiaries of this program were students of Physics and Electronics who gained valuable industrial brainstorming workshop sessions conducted for the 15-days duration.

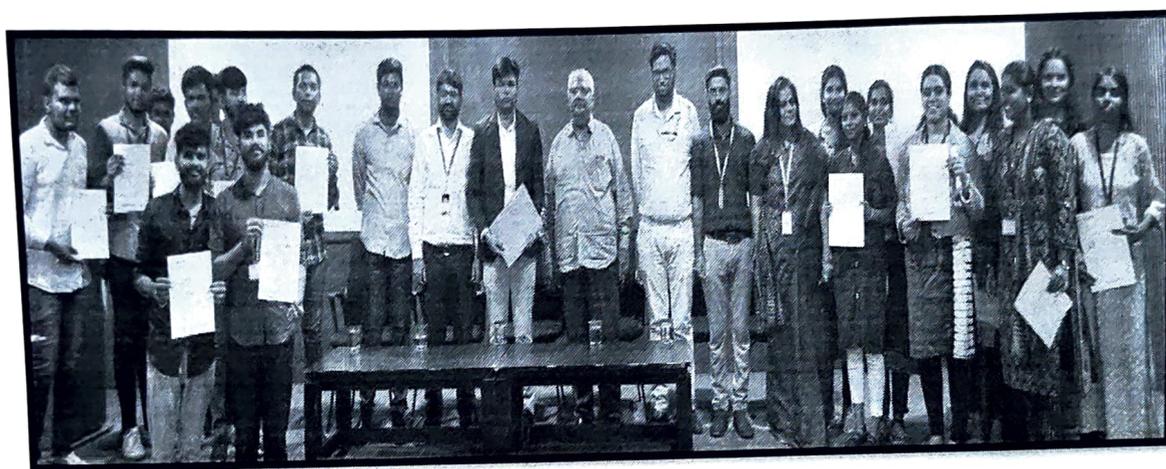


Valedictory Ceremony of 15 Days Workshop-cum- Internship at Seminar Hall- II on 12th April 2024. (Right to Left: Prof. Aruna K, Convener, Dr. N Thilaka, Principal IADC-A, Prof. Suryanaraya, CAO, IAGI, Mr. Vamshikanth Reddy, Vice- President, VALSOC Semiconductors, Dr. K Shyamsunder, Head, Department of Physical Sciences, Prof. P Rajarajan, Vice- Principal, IADC-A).



The valedictory ceremony was graced by the august presence of Mr. Vamshikanth Reddy, Vice- President, VALSOC- Semiconductors, Prof. Suryanarayan, CAO, IAGI, Dr. N Thilaka, Principal, IADC-A, Prof. Rajarajan P, Vice-Principal, IADC- A, Dr. K Shyamsunder, Head, Department of Physical Sciences. During the valedictory program, Mr. Vamshikanth Reddy, had briefed students on the career opportunities, growth and significance of this certification program.

Dr. Vivek T and Dr. Abhiram J were instrumental in supporting the trainers from VALSOC in all aspects for the successful implementation of this Internship cum Workshop program.



A Group Photo with B.Sc. Physics and Electronics students with their Internship Certificates from VALSOC Semiconductors during Valedictory Ceremony

This collaborative initiative between the college and VALSOC Semiconductors has not only enhanced the practical knowledge of the students but has also paved the way for a potential Memorandum of Understanding (MoU) between the two institutions.

Dr. Abhiram J
Program Coordinator

Dr. K Shyamsunder
HoD, Physical Sciences

Dr. N Thilaka
Principal



INDIAN ACADEMY

Degree College - Autonomous

Circular

21-02-24

IACLSR Lab and IACPE in Association with BHAT BIOTECH INDIA PVT LTD organizes Industry oriented Hands-on training workshop on Biosensor and Bioanalytical techniques on 5th March 2024, Tuesday at 9:00am to 5.30pm.

Highlight of the Course

- Knowledge- Orientation of the topic.
- Skills- Practical, trouble shooting, data generation and analysis (Hands-on and Demo).

Participants:

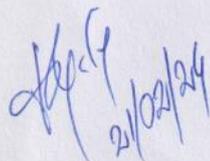
- B.Sc., M.Sc. students and Faculty members.

Learning Objectives:

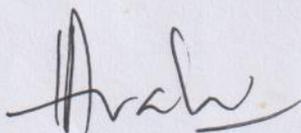
- To enhance students' analytical skills for better job opportunities in the Life Science area.
- To promote value generation among participants in Biotech industries and research.
- To enable students to pursue careers in research.

Learning Outcomes:

- Acquaint with optical Biosensor: Lateral flow assay, heavy metal detection.
- Familiarize with Biosensor – Amperometric
- Get insights about Bioanalytical techniques: ELISA, UV-Visible Spectrophotometry



Coordinator



HoD-Life Sciences

HEAD

Department of Life Sciences
Indian Academy Degree College - Autonomous
Bangalore - 560043



Principal

PRINCIPAL
INDIAN ACADEMY DEGREE COLLEGE
AUTONOMOUS
HENNUR MAIN ROAD
BENGALURU - 43



INDIAN ACADEMY

Degree College – Autonomous



BHAT BIO - TECH INDIA (P) LTD.
INFINITE POSSIBILITIES FOR A HEALTHIER TOMORROW

IACLSR Lab and IACPE

In Association with

Bhat Biotech India Pvt Ltd



INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of HRD Initiative)

INDUSTRY ORIENTED TRAINING PROGRAMME BIOSENSOR AND BIOANALYSIS TECHNIQUES

📅 Thursday, 22nd February 2024

🕒 09.30am to 05.00pm

Highlight of the Course

- Knowledge - Orientation of the Topic
- Skills - Practicals, Trouble Shooting, Data Generation and Analysis (Hands-on and Demo)

Who can attend / Participate

- Both UG & PG Life Science Students and Faculty Members

Course Content

- Biosensor:
 - Optical Biosensor: Colorimetric (Immunobiosensor) and Fluorescence (Heavy metal detection)
 - Electrochemical Biosensor: Amperometric (Glucose biosensor)
- Bioanalytical Techniques: ELISA, UV-Visible Spectrophotometer, SDS-PAGE, Western Blot, Ni-NTA Affinity Chromatography and its Analytes (Human / Food / Environment / Plant)

Value Creation

Industry-Oriented hands-on training programme is to impart value creation to participants

Sectors & Division	Role/Position
Biotech / Life Science: R&D	Scientist / QC / Application Specialist
Biopharma: mAb / Vaccine Production Unit	QC Specialist
CRO: Antibody / Antigen Production	Scientist
Academic Research: R&D	Research Assistant / Ph.D. Scholar

Principal
PRINCIPAL
INDIAN ACADEMY DEGREE COLLEGE
HENNUR MAIN ROAD, KALYAN NAGAR
BANGALORE-560043, KARNATAKA

Resource Persons

- Dr Ramya, Sr Scientist, Bhat Biotech India Pvt Ltd
Dr Vanitha G Ramesh, Prof., Co-ordinator, IA-CLSR-lab, IADC-A
Dr N.S.Venkatesh, IA-CLSR-lab, IADC-A
Dr T.K Suma, Assistant Professor, IADC-A
Dr Sahithya, Assistant Professor, IADC-A



Workshop Organizing Committee

- Dr. Shama Bhat, MD
Bhat Biotech India Pvt Ltd
- Dr. N. Thilaka
Principal, IADC-A
- Prof P. Rajarajan
Vice Principal, IADC-A
- Dr. B S Dwarakanath
Research Advisor
- Dr. H Ananda Vardhan
HoD, Life Sciences
- Dr. Vanitha G Ramesh
Coordinator, IACLSR Lab
- Dr. N.S.Venkatesh
Principal Scientist

IACLSR Lab Organizing Committee Members

- Dr. Ramachandra Murthy T T S
Dr. Suma T K
Dr. Sangeetha Annie George
Dr. Sahithya K

Registration Link

<https://shorturl.at/hkuB5>

Payment Link

<https://shorturl.at/bmqAV>

Note

- Each participant will receive certificate, a registration kit and lunch.
- First 30 enrollers on or before 24th Jan 2024 gets discount of 25% on course fee Rs. 1000/-
- Last date for registration 10th Feb 2024

Feed back about the TMB reagent External Bhat Biotech

Wed, Feb 14, 10:22 AM



ramya periasamy <ramya85bbi@gmail.com>

to me

Dear sir

This is to certify that Biochemigen (BCG) : TMB Monreagent plus, its Batch I with manufacturing date (23.6.23) and Batch II (20.1.24) from IA-CLSR-Lab, IADC-A, provided as sample to our lab was tested in our R&D ELISA assay kit recently (23.1.24) and compared with our in-house reagent. We have tested IADC-A TMB monoreagent and noted that its performance in our in-house ELISA assays have shown satisfactory performance.

Thanks

--

With regards

Ramya PhD
Senior Scientist
Bhat Biotech India Pvt Ltd



INDIAN ACADEMY

Degree College - Autonomous

IACLSR Lab and IACPE

in association with BHAT BIOTECH INDIA PVT LTD Organizes

INDUSTRY ORIENTED TRAINING PROGRAMME on BIOSENSOR AND BIOANALYTICAL TECHNIQUES

(Demo and Hands-on Training)

5th March 2024

Title of the event: "Industry Oriented Training Programme on Biosensor and Bioanalytical Techniques (Demo and Hands-on Training)"

MoU partner: Bhat Biotech India Pvt Ltd

Venue: IACLSR Lab, IADCA

Date: 5th March 2024

Time: 09:00am to 05:30pm

Beneficiaries: UG & PG Life Science students and faculty members of IADCA and other institutions

Learning Objectives

- To enhance students' analytical skills for better job opportunities in the Life Science area
- To promote value generation among participants in Biotech industries and research
- To enable students to pursue careers in research.

Learning outcomes:

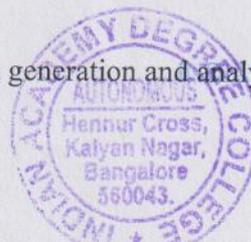
At the end of the competition, participants will be able to

- Acquaint with optical Biosensor: lateral flow assay, heavy metal detection
- Familiarize with Biosensor-Amperometric
- Get insights about bioanalytical techniques: ELISA, UV-Visible Spectrophotometry

Highlight of the course

Industry-Oriented hands-on training programme is to impart value creation to the participants at Biotech Industry and Research. This workshop with industry and in-house experts aimed at

- Knowledge orientation of the topic
- Skills – practical, trouble shooting, data generation and analysis



INDIAN ACADEMY DEGREE COLLEGE
AUTONOMOUS
HENNUR CROSS ROAD
BANGALORE - 560043

Course Content

- Biosensor:
 - Optical Biosensor: Colorimetric (Lateral Flow Assay Human - IgG)
 - Optical Biosensor: Fluorescence (Heavy metal detection)
 - Electrochemical Biosensor: Amperometric (Glucose)
- Bioanalytical Techniques: ELISA, UV-Visible Spectrophotometry

Resource Persons

- Dr Ramya, Sr Scientist, Bhat Biotech India Pvt Ltd - Hands-on training on ELISA
- Dr N.S.Venkatesh, IA-CLSR-lab, IADC-A - Hands-on training on LFT, Glucose Biosensor, Heavy Metal Detection
- Dr Vanitha G Ramesh, Prof., Co-ordinator, IA-CLSR-lab, Dept of Life Sciences, IADC-A - Knowledge orientation about ELISA
- Dr T.K Suma, Assistant Professor, Dept of Life Sciences, IADC-A - Knowledge orientation about UV-visible spectrophotometry

Details about the event:

A workshop for the benefit of UG & PG Life Science students and faculty members of IADCA and other institutions was organized jointly by IA-CLSR Lab and IACPE on 5th March 2024 from 9:00am to 05:30pm in IA-CLSR Lab, IADCA. This "Industry Oriented Training Programme on Biosensor and Bioanalytical Techniques" was conducted in association with Bhat Biotech India Pvt Ltd, Bangalore.

A total of 30 UG and PG Life Science students and 3 faculty of IADCA participated in the workshop, along with 3 UG students and 1 faculty of Acharya Bangalore B-School, Bangalore.

During the initial formal program, Dr. Sahithya K, Dept of Life Sciences, provided a brief preamble about the industry oriented workshop. Knowledge orientation on various topics was given by the 3 resource persons of IADCA, Dr N.S.Venkatesh, Dr Vanitha G Ramesh and Dr T.K Suma. Dr. N.S.Venkatesh introduced the topic of biosensors to the audience, particularly on the topics of lateral flow assay, glucose biosensor and heavy metal detection. Dr Vanitha G Ramesh provided the knowledge orientation about ELISA and Dr T.K Suma provided the knowledge orientation about UV-visible spectrophotometry. The demo and hands-on training was conducted by Dr Ramya, Sr Scientist, Bhat Biotech India Pvt Ltd and Dr N.S.Venkatesh, IA-CLSR-lab, along with the other program organizers.

This workshop brought together experts and those who are interested in the themes of the workshop. It included introductory lectures and hands on training in labs. The aim of the workshop was to share the



INDIAN ACADEMY DEGREE COLLEGE
AUTONOMOUS
HENNUR CROSS, BANGALORE
560043

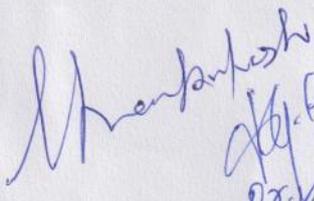
recent developments about biosensors and bioanalytical techniques in the fields of environmental analysis, clinical diagnosis, therapy and biotechnological applications.

The workshop mainly focussed on 4 topics – ELISA, Lateral flow assay, Glucose biosensor and heavy metal detection. Resources for training on ELISA, glucose biosensor and Lateral flow assay were provided from Bhat Biotech, to each participant. The training session started with human IgG ELISA, followed by urine hCG detection by the lateral flow assay strips. Glucose biosensor was demonstrated later along with heavy metal detection (mercury) in water by using fluorescent probes.

Outcomes and future prospects

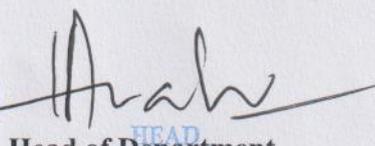
In this workshop, foundational aspects of biosensor design and fabrication/production were covered and translated into clinical applications. In addition, the workshop explored the latest advances in biosensors and associated fields like digital health expert systems and diagnostics. Furthermore, it was an excellent opportunity to foster interdisciplinary collaboration, bringing together students, researchers, educators and industry professionals to share and discuss the recent trends and applications of biosensors. Participating students and faculty highly appreciated this opportunity for a practical training in the technology related to current trends in clinical and environmental research.

Further, the institution aims to conduct more such programs to provide in-depth knowledge and practical training to the student community so as to enhance their employability skills and research orientation.

1. 

Event Coordinators

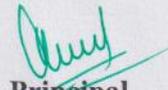
Dr. Vanitha G. Dornesh



Head of Department

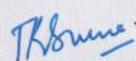
Department of Life Sciences

Indian Academy Degree College - Autonomous
Bangalore - 560043



Principal

INDIAN ACADEMY DEGREE COLLEGE
AUTONOMOUS
Mennur Cross, Kaiyan Nagar
Bangalore - 43.

2. Dr. Suma T. K. 



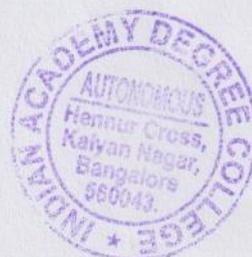
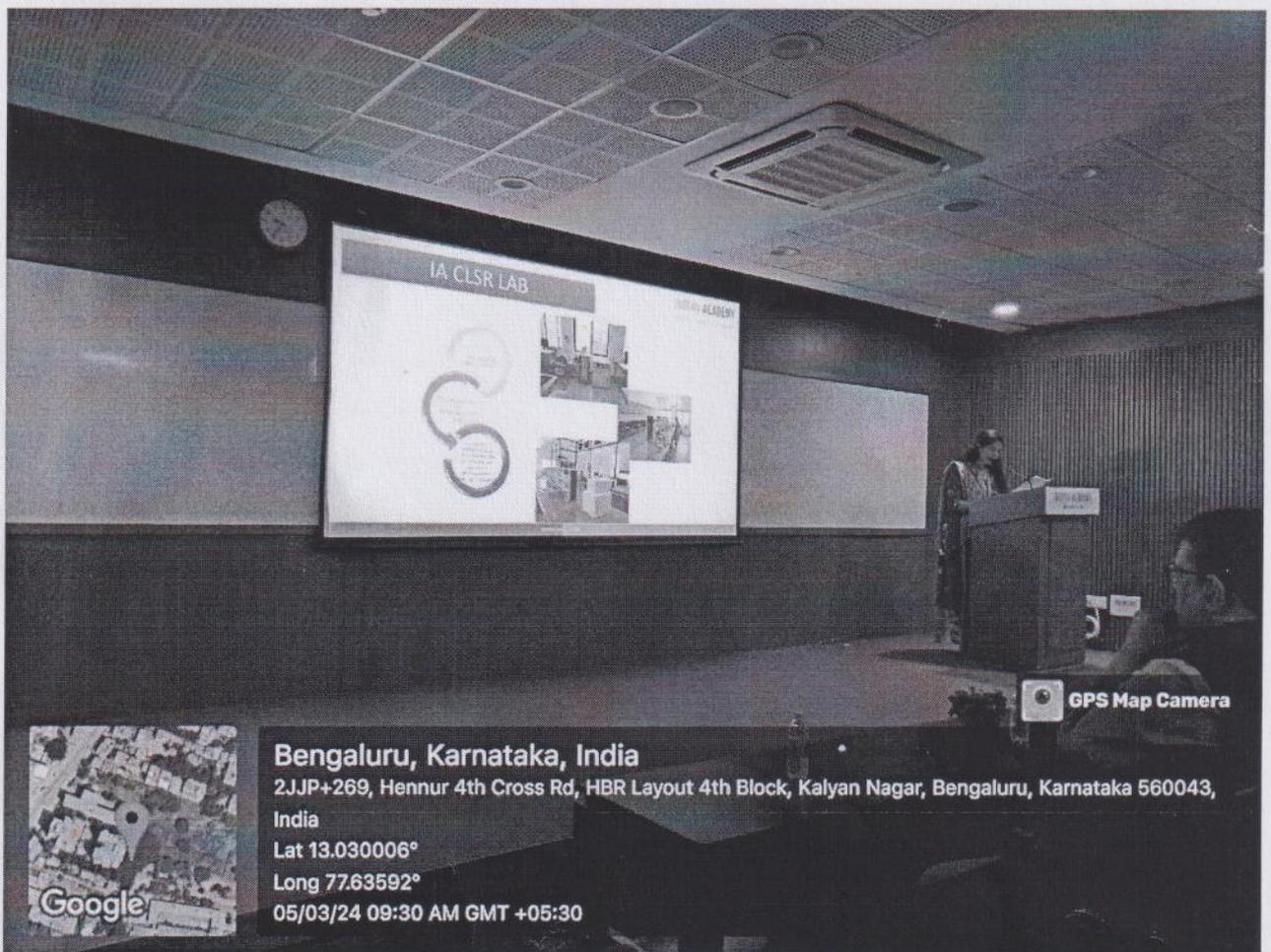
INDIAN ACADEMY

Degree College - Autonomous

IACLSR Lab and IACPE

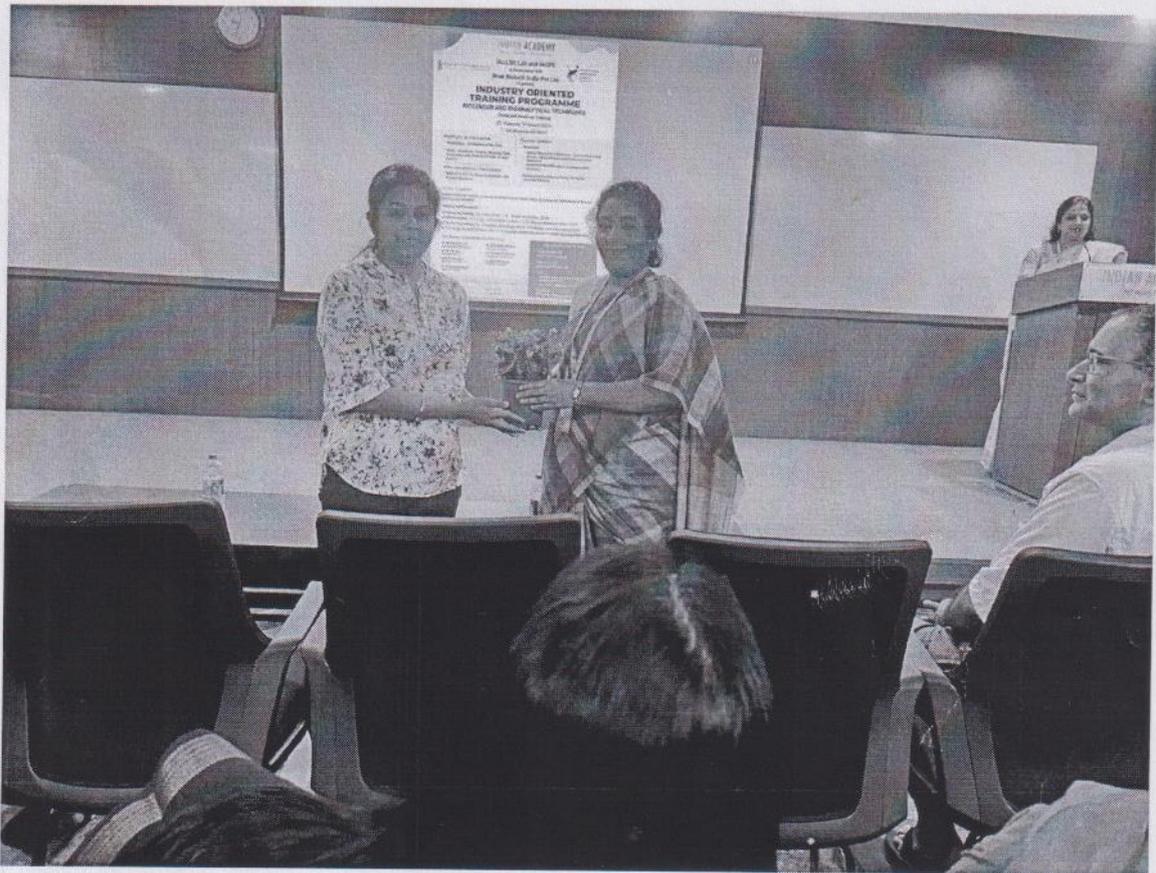
in association with BHAT BIOTECH INDIA PVT LTD Organizes
INDUSTRY ORIENTED TRAINING PROGRAMME on
BIOSENSOR AND BIOANALYTICAL TECHNIQUES
5th March 2024

PHOTOGRAPHS



Autub

INDIAN ACADEMY DEGREE COLLEGE
AUTONOMOUS
HENNUR MAIN ROAD
BENGALURU 560043



Princip



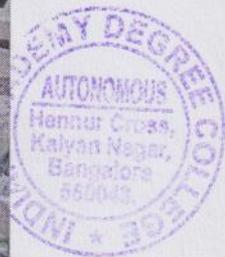
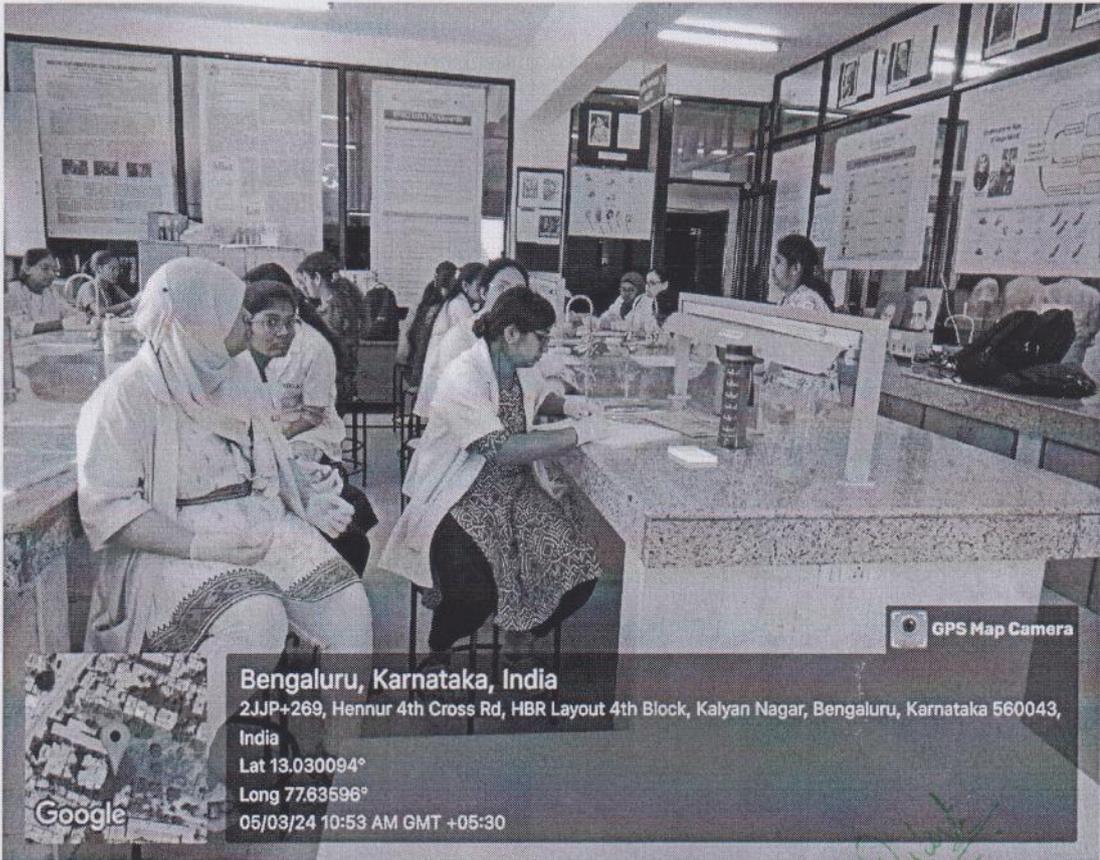
PRINCIPAL
DIAN ACADEMY DEGREE COLLEGE
560043 MAIN ROAD, KALYAN NAGAR
BANGALORE-560043, KARNATAKA

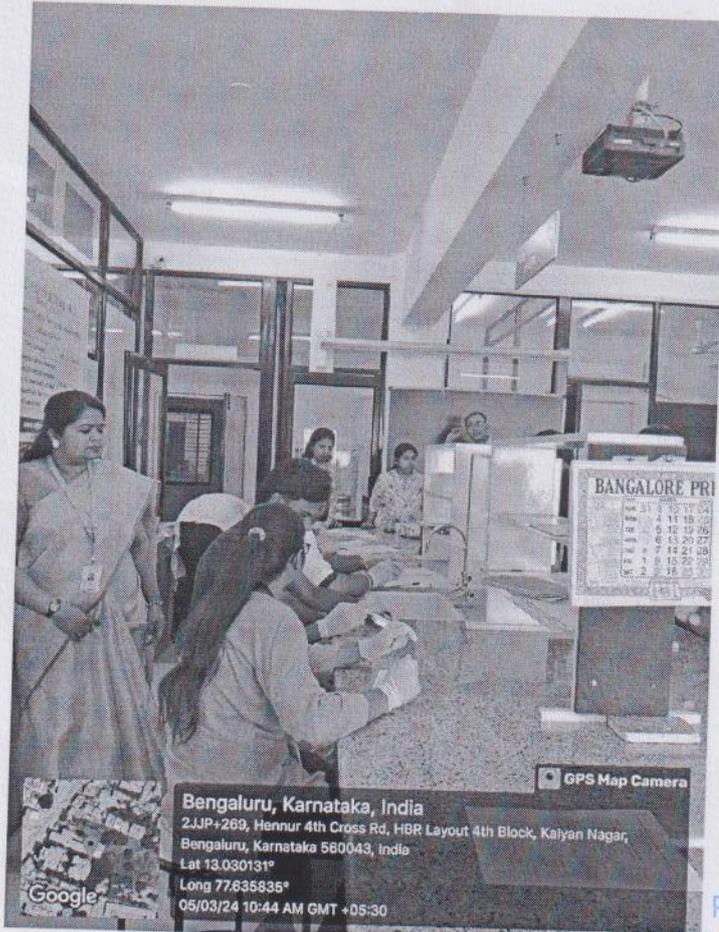


Bengaluru, Karnataka, India
2.JJP+269, Hennur 4th Cross Rd, HBR Layout 4th Block, Kalyan Nagar, Bengaluru, Karnataka
560043, India
Lat 13.030111°
Long 77.635829°
05/03/24 10:40 AM GMT +05:30

Google

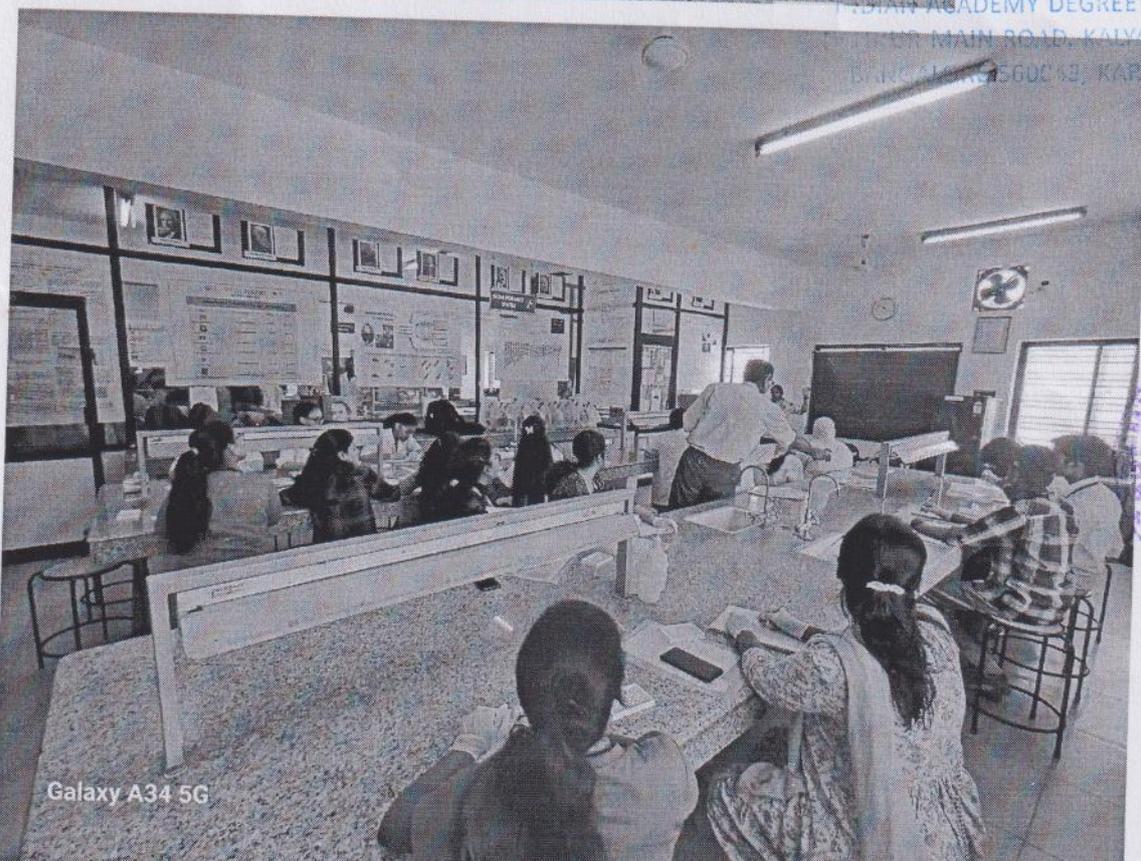
GPS Map Camera



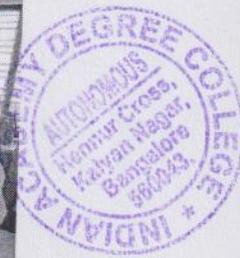


Principals

PRINCIPAL
 INDIAN ACADEMY DEGREE COLLEGE
 MAIN ROAD, KALYAN NAGAR
 BANGALORE 560043, KARNATAKA



Galaxy A34 5G



1. *[Handwritten signature]*
[Handwritten signature]

Event coordinators

2. Dr. Sume. T. K.
[Handwritten signature]

[Handwritten signature]

Head of Department

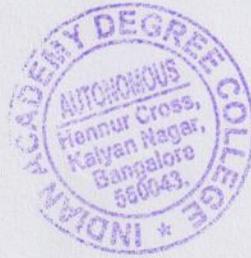
HEAD

Department of Life Sciences
Indian Academy Degree College - Autonomous
Bangalore - 560043

[Handwritten signature]

Principal

PRINCIPAL
INDIAN ACADEMY DEGREE COLLEGE
AUTONOMOUS
Hennur Cross, Kalyan Nagar
Bangalore - 43.



INDIAN ACADEMY

Degree College – Autonomous

IACLSR Lab and IACPE

In Association with

Bhat Biotech India Pvt Ltd

Organizes



INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of HRD Initiative)



BHAT BIO - TECH INDIA (P) LTD.
INFINITE POSSIBILITIES FOR A HEALTHIER TOMORROW

INDUSTRY ORIENTED TRAINING PROGRAMME BIOSENSOR AND BIOANALYTICAL TECHNIQUES

(Demo and Hands-on Training)

Tuesday, 5th March 2024

09:00am to 05:30pm

Highlight of the Course

- Knowledge - Orientation of the Topic
- Skills - Practicals, Trouble Shooting, Data Generation and Analysis (Hands-on and Demo)

Who can attend / Participate

- Both UG & PG Life Science Students and Faculty Members

Course Content

- Biosensor:
 - Optical Biosensor: Colorimetric (Lateral Flow Assay Human - IgG) and Fluorescence (Heavy metal detection)
 - Electrochemical Biosensor: Amperometric (Glucose)
- Bioanalytical Techniques: ELISA, UV-Visible Spectrophotometry

Value Creation

Industry-Oriented hands-on training programme is to impart value creation to the participants at Biotech Industry and Research.

Resource Persons

Dr Ramya, Sr Scientist, Bhat Biotech India Pvt Ltd - Hands-on training - ELISA

Dr N.S.Venkatesh, IA-CLSR-lab, IADC-A - Hands-on training - LFT, Glucose Biosensor, Heavy Metal

Dr Vanitha G Ramesh, Prof., Co-ordinator, IA-CLSR-lab, IADC-A - Knowledge orientation about ELISA

Dr T.K Suma, Assistant Professor, IADC-A - Knowledge orientation about UV-visible spectrophotometry

Workshop Organizing Committee

Dr. Shama Bhat, MD
Bhat Biotech India Pvt Ltd

Dr. N. Thilaka
Principal, IADC-A

Prof P. Rajarajan
Vice Principal, IADC-A

Dr. B S Dwarakanath
Research Advisor

Dr. H Ananda Vardhan
HoD, Life Sciences

Dr. Vanitha G Ramesh
Coordinator, IACLSR Lab

Dr. N.S.Venkatesh
Principal Scientist

IACLSR Lab Organizing Committee Members

Dr. Ramachandra Murthy T T S

Dr. Suma T K

Dr. Sangeetha Annie George

Dr. Sahithya K

PRINCIPAL
INDIAN ACADEMY DEGREE COLLEGE
PULMUR ROAD, KALIAN NAGAR
BANGALORE-560043, KARNATAKA



Registration Fee: ₹ 750/-

Registration Link

<https://shorturl.at/hkuB5>

Payment Link

<https://shorturl.at/bmqAV>

Note

- Each participant will receive certificate, a registration kit and lunch.
- Last date for registration 29th Feb 2024

Eligibility:

B.Sc & M.Sc. Students & Faculty Members

INDUSTRIAL ORIENTED TRAINING: *BIOSENSOR and BIOANALYTICAL TECHNIQUES*

5th March,2024

9:00 am	Registration and Welcome kit to participants
9:10am-9:20am	Inauguration and Welcome to Participants - Dignitaries -Dr N. Thilaka, Principal - Prof Rajarajan Vice Principal - Dr Dwarakanath, Research Advisor - Dr Ananda Varadhan, Head, Dept of Life Sciences - Dr. Ramya, Sr. Scientist, Bhat Biotech India Pvt Ltd. Welcome Address by Dr Vanitha G. Ramesh, Professor, Dept of Life Science, Research cum IA-CLSR-Lab, Coordinator
9:20am-9:30am	Preamble about Industry Oriented Workshop at IA-CLSR-lab: by Dr Sahithya, Assistant Professor,Dept of Life Science
9:30am-9:40am	Introduction to Bioanalytical techniques: Dr Suma
9:40am -9:50am	Introduction to ELISA: Dr Vanitha G. Ramesh
9:50am-10:00am	Introduction to Biosensor: Dr N.S.Venkatesh
	Vote of Thanks – Dr T.T.S. Ramachandra Murthy
10:00 to 10:30am	Tea Break / Sorting out into Batches

S.No	BIOSENSOR Experiments	BIOANLAYTICLAL Experiments	Technical Resource Person
1	Optical Biosensor: Color (<i>Absorbance</i>) [hCG immunobiosensor assay]		Dr Ramya, Sr Scientist, Bhat Biotech India Dr N.S.Venkatesh, IACLSR-Lab,IADC-A
2	Optical Biosensor: Fluorescence (<i>Emission</i>) [Heavy metal detection by Qdot]		Dr N.S.Venkatesh, IACLSR-Lab, IADC-A
3	Electrochemical Biosensor: [Blood Glucometer]		Dr Ramya, Sr Scientist, Bhat Biotech India Dr N.S.Venkatesh, IACLSR-Lab, IADC-A
4		Human IgG ELISA	Dr Ramya, Sr Scientist, Bhat Biotech India Dr Vanitha, IADC-A
5		HRP Assay	Dr Suma, IADC-A Dr N.S.Venkatesh, IADC-A



Schedule of Events: Industry oriented Biosensor and Bioanalytical Technique

Venue: CLSR LAB

TIMINGS	ACTIVITIES	
10.30 am to 10.45 am (15 mins)	<u>Experiment</u> Human IgG ELISA: Blocking step	
10.45 am to 12.15 pm (1 hr 30mins)	Human IgG ELISA: Incubation	<u>Experiments</u> • Urine hCG detection <u>Experiment</u> • Glucose Biosensor
12.15 pm to 12.30 pm (15 mins)	Human IgG ELISA:Washing and addition of 1 st antibody	
12.30 pm to 2.00 pm (1hr 30 mins)	12.30pm to 1.30pm <u>Experiment</u> • HRP ASSAY	Human IgG ELISA: Incubation
		1.30pm to 2.00pm (Lunch break)
2.00 pm to 2.15 pm (15 mins)	Human IgG ELISA:Washing and addition of 2 nd antibody	
2.15 pm to 3.00 pm (45 mins)	Human IgG ELISA: Incubation	<u>Experiment</u> Metal detection in Water by using fluorescent probe (Hg assay)
3.00 pm to 3.30 pm (30 mins)	Human IgG ELISA: Addition of substrate and addition of stop solution	



Quint

Schedule of Events: *Industry oriented Biosensor and Bioanalytical Technique*

Venue: **GENETICS LAB**

TIMINGS	ACTIVITIES	
10.45 am to 11.00 am (15 mins)	Human IgG ELISA: Blocking step	
11.00 am to 12.30 pm (1 hr 30mins)	Human IgG ELISA: Incubation	<u>Experiment</u> • Urine hCG detection <u>Experiment</u> • Glucose Biosensor
12.30 pm to 12.45 pm (15 mins)	Human IgG ELISA: Washing and addition of 1 st antibody	
12.45 pm to 2.15 pm (1hr 30 mins)	<u>Experiment</u> Metal detection in Water by using fluorescent probe (Hg assay) 12.45pm to 1.45pm	Incubation
		1.45pm to 2.15pm (Lunch break)
2.15 pm to 2.30 pm (15 mins)	Human IgG ELISA: Washing and addition of 2 nd antibody	
2.30 pm to 3.15 pm (45 mins)	Incubation	<u>Experiment</u> HRP ASSAY
3.15 pm to 3.45 pm (30 mins)	Human IgG ELISA: Addition of HRP substrate and addition of stop solution, followed by ELISA reading	



Arindam

INDIAN ACADEMY DEGREE COLLEGE
AUTONOMOUS
HENNUR MAIN ROAD
BENGALURU - 43

Experiment

Heavy Metal detection (Hg) assay- by using QDot reagent (Fluorescence)

Aim

To analyze the presence of Heavy metal (Mercury) contamination in water sample, by using Q-Dot reagent along with UV-Visible spectrophotometer

Principle

Q-Dot with high specificity interact with Hg^{2+} in aqueous medium to form aggregates, due to carboxyl functional groups interaction with Hg^{2+} , which facilitated electron transfer from the QDs to Hg^{2+} resulting in quenched fluorescence with a high efficiency, making the detection of Hg^{2+} highly sensitive

Basically, this method is categorized as Optical Biosensor: Fluorescence based assay primarily due to Q-Dot reagent with dual role, both as a biorecognition element towards bind of mercury ions in the sample and as signal transducer by fluorescence emission.

The intensity of quenching is proportional to amount of mercury ion present in the sample.

Procedure for the Test:

Standards	Q-Dots	Phosphate buffer pH 6.8	Standard sample	Unknown Water Sample	Milli Q water
Blank	100 uL	50 uL	-	-	100 uL
Standard Water sample 500mg/L	100 uL	50 uL	100 uL	-	-
Unknown Water sample	100 uL	50 uL	-	100 uL	-

Readings are taken in UV-Vis Spectrophotometer at 525nm after the reaction.

Results

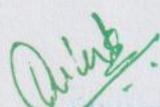
Standard sample (500mg/L) O.D @ 525nm =

Unknown sample O.D @ 525nm=

Analysis & Interpretation:

Concentration of Hg is inversional proportional to the O.D @ 525nm




INDIAN ACADEMY DEGREE COLLEGE
AUTONOMOUS
HENNUR MAIN ROAD
BENGALURU - 43

HRP ASSAY PROCEDURE

Aim

To determine the concentration of HRP in the sample using TMB substrate reagent along with UV-Visible spectrophotometer

HRP (Horse Radish Peroxide), an enzyme is used as the substrate in the assay for testing the TMB monoreagent.

Procedure

- **Note:**
TMB reagent should be handled with care. Do not expose to direct light (light sensitive). Do not handle with bare hands, always wear gloves and make sure new microtips are used all the time.

All Assays were performed using microtiter plate, in duplicates

Reaction vials	TMB substrate reagent	HRP enzyme	Milli Q water	Incubation at dark for 30 mins	Reaction Stop solution
Blank	50 uL	-	100 uL		100 uL
Standard HRP	50 uL	100uL	-		100 uL
Standard HRP	50 uL	100uL	-		100 uL
Unknown sample	50 uL	100uL	-		100 uL

- At the End of incubation time, take the reaction O.D at 630nm
- After adding reaction stop solution take the O.D at 450nm

Results

Analysis



Q.123

INDIAN ACADEMY DEGREE COLLEGE
AUTONOMOUS
HENNUR MAIN ROAD
BANGALURU - 43

INDIAN ACADEMY

Degree College - Autonomous

ATTENDANCE SHEET

EVENT: Workshop on BIOSENSOR AND BIOANALYTICAL TECHNIQUES

DATE: 05-03-24

VENUE: IACLSR LAB

Sl.No	Name	Name of the institution	Program & Semester	Signature	Certificate Acknowledgment
01	Umme Jowaria	IADC-A	BSc (Life Science) (G/Bc) 6 th Sem	<i>[Signature]</i>	<i>[Signature]</i>
02	K. Janani	IADC-A	BSc (Life Science) (BTBc) 6 th Sem	K. Janani	K. Janani
03	Sneek Nitya K	IADC-A	BSc (Life Science) (G/Bc) 6 th Sem	Nitya	Nitya
04	Komal Kumari	IADC-A	BSc (Life Science) (BcBT) 6 th Sem	<i>[Signature]</i>	<i>[Signature]</i>
05	Rakhiya Begum	IADC-A	BSc (Life Science) (BcBT) 6 th Sem	<i>[Signature]</i>	<i>[Signature]</i>
06	Varsha P.N	IADC-A	BSc (Life Science) (BcBT) 6 th Sem	Varsha P.N	<i>[Signature]</i>
07	Shashi Kalav	IADC-A	BSc (Life Science) (BcBT) 6 th Sem	Shashi	<i>[Signature]</i>
08	Varshini Kaliparthi	IADC-A	BSc (Life Science) (BcBT) 6 th Sem	<i>[Signature]</i>	Varshini K
09	Samia Chatterjee	IADC-A	MSc (MICROBIOLOGY) 1 st Sem	S.C	S.C.
10	Fatheen Baner	IADC-A	MSc (MICROBIOLOGY) 1 st Sem	Fatheen	Fatheen Baner
11	K.N. MADHAVI	IADC-A	BSc (Lifescience) (BcG) 6 th Sem	K.N. Madhavi	K.N. Madhavi
12	Keerthanan	IADC-A	BSc (Lifescience) (BcG) 6 th Sem	<i>[Signature]</i>	<i>[Signature]</i>
13	M. Rahul Krishna	IADC-A	BSc (Lifescience) (BcG) 6 th Sem	M. Rahul	M. Rahul
14	Prabha Rajan	IADC-A	BSc (Life Science) (BcBT) 6 th Sem	Prabha	Prabha
15	Arpan Patra	IADC-A	BSc (Life Science) (BcBT) 6 th Sem	Arpan Patra	Arpan Patra
16	Deeksha J.M.	ABBS	B.Sc 3 rd Sem	Deeksha J.M.	Handed to Dr. Vanitha
17	Rakshithe G.	ABBS	B.Sc 3 rd Sem	Rakshithe G.	
18	Anusha K.	ABBS	B.Sc 3 rd Sem	Anusha K.	
19	Dr. Krammen	ABBS	Faculty	<i>[Signature]</i>	
20	Nancy A	IADC-A	MSc. (Microbiology)	Nancy A.	Nancy A.
21	Monika S	IADC-A	MSc. (Microbiology)	S. S.	S. S.
22	K. Vanitha	IADC-A	MSc. (Microbiology)	Vanitha	Vanitha
23	Mansi J.	IADC-A	M.Sc Biotech 1 st Sem	Mansi	Mansi
24	P. Neha Sajan	"	"	<i>[Signature]</i>	<i>[Signature]</i>
25	AMISHA SINGH	"	"	Amisha Singh	Amisha Singh
26	Aastha Singh	"	"	Aastha Singh	Aastha Singh
27	VH. BHARGAVI	"	"	<i>[Signature]</i>	<i>[Signature]</i>
28	ARRA ECHA	"	"	<i>[Signature]</i>	<i>[Signature]</i>
29	Namisha	"	"	<i>[Signature]</i>	<i>[Signature]</i>
30	Vinitha M	"	MSc. Biotech	<i>[Signature]</i>	<i>[Signature]</i>
31	PAVITHRA C	-11-	MSc. Biotech (1 st Sem)	Pavithra C	Pavithra C



INDIAN ACADEMY DEGREE COLLEGE
AUTONOMOUS
HENNUR MAIN ROAD
BANGALORE

Timestamp	Email Address	Name (in BLOCK LETTERS)	Designation (St/ Name of the Institution)	Was the V/Did you Is this w/Would	Overall view of the programme
3-5-2024 16:42:45	bhargaviveesani@gmail.com	V.H.BHARGAVI	Student Indian academy degree college autonomous	5 5	5 Excellent
3-5-2024 16:43:44	nameerany@gmail.com	Nameera Yadathalli	Student IADC	4 4	4 Good
3-5-2024 16:44:38	javeri.marali@gmail.com	MANALI NITIN JAVERI	Student Indian Academy Degree College - Autonomous	5 5	5 Excellent
3-5-2024 16:44:48	vinithamurugan3117@gmail.com	Vinitha Murugan	Student IADCA	5 5	5 Excellent
3-5-2024 16:45:41	pavithra163163@gmail.com	PAVITHRA C	Student Indian academy degree college , Hennur cross , Bangalore	1 1	1 Excellent
3-5-2024 16:48:54	monisris002@gmail.com	MONIKA S	STUDENT INDIAN ACADEMY DEGREE COLLEGE - AUTONOMOUS	5 5	5 Excellent
3-5-2024 16:49:01	vanitha.20labsc039@indianacademy	K. VANITHA	Student IADC-A	5 5	5 Excellent
3-5-2024 16:50:41	nancynamoyi@gmail.com	Nancy Naymoli A	Student IADCA	5 5	5 Excellent
3-5-2024 17:03:25	rakshithagulkarni@gmail.com	RAKSHITHA KULKARNI	Student Aacharya Bangalore B-School	5 5	5 Excellent
3-5-2024 17:04:10	anusha00127@gmail.com	ANUSHA K	Student Aacharya Bangalore B-School	5 5	5 Excellent
3-5-2024 17:04:42	deekshajmdream@gmail.com	DEEKSHA J M	Student Aacharya Bangalore B-School	5 5	5 Excellent
3-5-2024 17:04:44	dr.eramama@abbs.edu.in	Dr. ERAMMA N	Faculty Aacharya Bangalore B-School	5 5	5 Excellent
3-5-2024 17:18:00	chatterjeesamia2017@gmail.com	Samia Chatterjee	Student Indian Academy Degree College Autonomous	5 5	5 Excellent
3-5-2024 17:18:33	rahul.23labsc001@iadc.ac.in	M. RAHUL KRISHNA	Student Indian Academy Degree College	5 5	5 Excellent
3-5-2024 17:19:12	RAABIYA.21IABSC021@indianacad	RAABIYA BEGUM	Student Indian academy	5 5	5 Excellent
3-5-2024 17:19:29	malalipradhan787@gmail.com	PRABASH RANJAN PRADHAN	Student Indian academy degree college autonomous IADC-A	5 5	5 Excellent
3-5-2024 17:19:43	sree.21labsc060@indianacademy.ed	SREE NITYA KOPPISETTY	Student Indian academy degree college	5 5	5 Excellent
3-5-2024 17:19:47	apran.23labsc061@iadc.ac.in	ARPAN PATRA	Student IADC-A	5 5	5 Excellent
3-5-2024 17:20:47	MADHAVI.21IABSC055@indianacad	K.N.MADHAVI	STUDENT INDIAN ACADAMY DEGREE COLLEGE AUTONOMOUS	5 5	5 Excellent
3-5-2024 17:21:39	sofiyashah62@gmail.com	UMME JAVERIA	Student IADCA	5 5	5 Excellent
3-5-2024 17:22:04	janani.21labsc012@indianacademy.e	K JANANI	Student Indian Academy Degree College Autonomous	5 5	5 Excellent




INDIAN ACADEMY DEGREE COLLEGE
AUTONOMOUS
 HENNUR MAIN ROAD
 BANGALORE - 560043