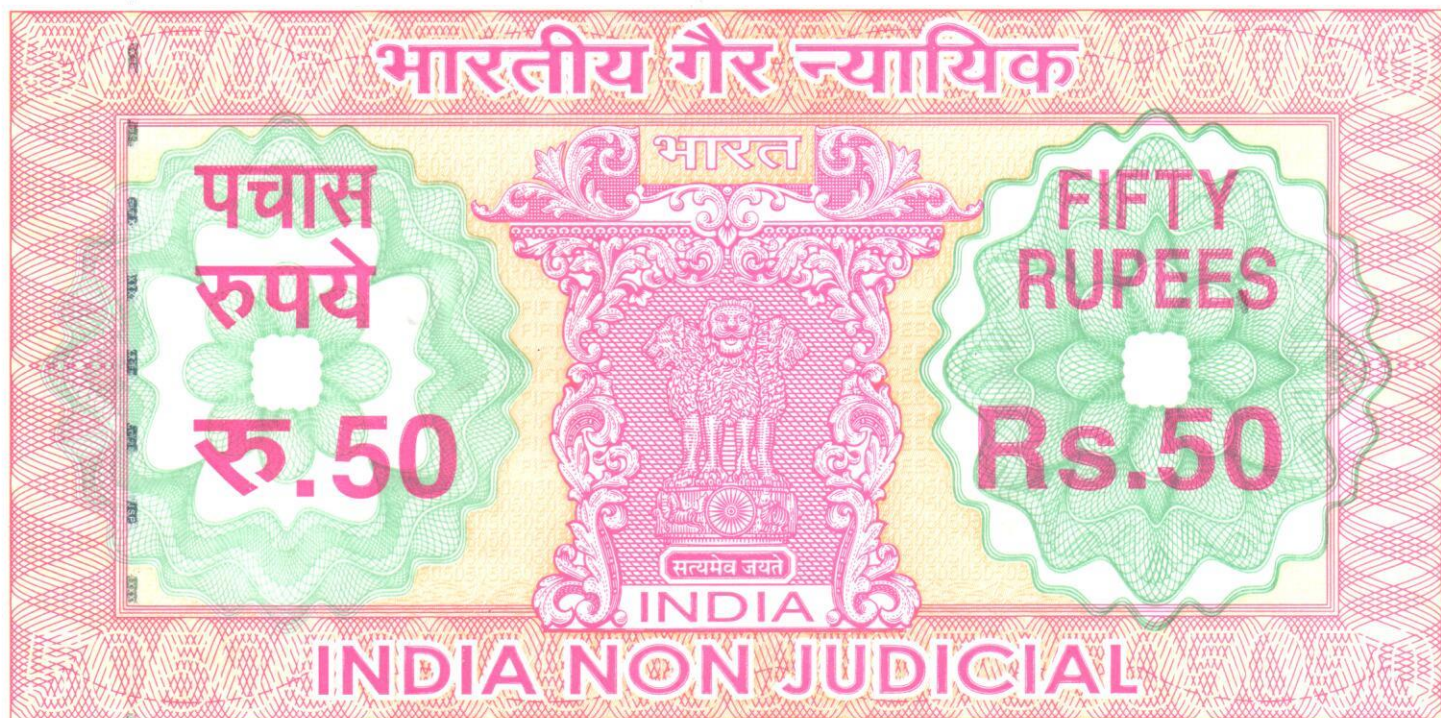




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HOLY CROSS COLLEGE

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CHINESH BABU
STAMP VENDOR
License No: 23/CH (S) 2010 dt 28.02.2017
Sholinganallur, Chennai-600 119.
Cell: 9841417992

Memorandum of Understanding

Between

PG & Research Department of Zoology, Holy Cross College, Tiruchirappalli

And

Sathyabama Institute of Science and Technology,
Centre for Nanoscience and Nanotechnology, Chennai

This memorandum of understanding is made on 07th day of February, 2018 between PG & Research Department of Zoology, Holy Cross College (Autonomous), Tiruchirappalli (herein after called "The first party") and Sathyabama Institute of Science and Technology, Centre for Nanoscience and Nanotechnology, Chennai (herein after "The Second Party"),

Whereas it has been the concern of the "first party" that the students of Zoology department comprising UG, PG, M. Phil., Ph.D. and PDF, is one of the endowed clusters in Academic Programs and specifically in research area of Life Sciences,

Whereas it has been the concern of the "Second Party" has approached us to implant professional and skill oriented training in Animal Cell Culture Techniques for our students to carry out the aforesaid objectives of the Zoology Department of Holy Cross College (Autonomous), Tiruchirappalli to consent interdisciplinary research by various scientific and technological matters.

The following agreements were made between the parties:

1. To extend and cultivate, joint venture among students to pursue research in animal cell culture, focusing on aseptic handling techniques, its applications in industries and in recent technological advancement.
2. The second party will have the following roles and responsibilities
 - a. They will extend their support in enhancing skills of students through internship and vocational training in their respective areas.
 - b. They will contribute professional teaching and guidance on identifying the problems associated with culture, storage and maintenance of a wide range of animal cell types.
 - c. Jointly organize modular programs like seminars, conferences, hands on training and workshops on the topics of mutual interest and invite each other to participate.
 - d. Agreed to explore ways of encouraging collaboration between faculty and scientists from the two institutions. Particularly, two institutions would support members of their faculty to undertake short visits or to take up assignments as Visiting Professors and to appear in online webinars (atleast once a month).
 - e. Agreed to enable the exchange of students at Undergraduate, Graduate and Doctoral level between the two institutions. Each exchange student would be selected by mutual agreement and in accordance to the regulations of the partner institutions.
 - f. Design and critically asses the scientific investigations on the usage of cell cultures in *invitro* and commercial applications as well.
 - g. To explore the various employment opportunities and research prospects which are essential for succeeding in any employment.
3. "The First Party "will adequately support the research activities to enable the "Second Party" to discharge their above mention role and responsibilities effectively.

4. "The two Parties will be responsible for implementation and monitoring students' activities.
5. This memorandum of understanding, both partners affirm their commitment to carry out the activities and achieve the objectives mutually agreed upon.
6. This memorandum of understanding will be expiring if both sides don't make the extension at the end of the period. Either party with minimum of 90 days written notice can terminate this agreement. However the assignment taken will be completed at any cost.
7. Both the parties will assign a person as the contact point to implement this agreement.

This agreement is to develop and promote the above mentioned activities and does not have legal binding. This agreement is valid for period of five years from date of signing and it could be extended and /or cancelled within the agreement period based on mutual concern.


Holy Cross College (Autonomous)
Tiruchirappalli.

**PRINCIPAL
HOLY CROSS COLLEGE,
(AUTONOMOUS)
TIRUCHIRAPPALLI-2.**


Sathyabama Institute of Science
and Technology,
Centre for Nanoscience & Nanotechnology
Chennai.

Dr. MARIA ZEENA JOHNSON, B.E., MBA, M.P.M., Ph.D.,
PRO CHANCELLOR
SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)
Jeppiaar Nagar, Rajiv Gandhi Salai,
Chennai - 600 119.

(A) Areas to be covered for Skill Development Programme:

The programme can be taken up at three Levels in the Major Branches Mechanical, Electrical, Electronics and Automobile , Instrumentation.

- (i) Basic Concepts Level
- (ii) Related Areas
- (iii) Advanced Level in their own discipline and other discipline.

Mechanical

➤ Basic Level

Fitting / Turning / Machining / Carpenter / Plumber / Tool & Die Making

➤ Related Areas / Advanced Level

Adv. Welding / Hydraulics & Pneumatics / Heat Treatment/ Machine Tool Maintenance / Metrology / CNC / CAD/CAM/ Production Technology etc.

Electrical

➤ Basic Level

Electrical installation , Wiring Practice, Switch Gear, Transformer, Motor Testing

➤ Related Areas / Advanced Level

Operation and Maintenance of Power Transformer, AC/DC Motors, Protective Relays, Circuit Breaker, MCC, Industrial Drives, etc.

Electronics

➤ Basic Level

Soldering Practice, Testing & Calibration, Electronic Equipments / Instruments , PCB Trouble Shooting etc.

➤ Related Areas / Advanced Level

Power Electronics, PIC Micro Controller, Computer Hardware Maintenance & Networking, Siemens S7-400/ AB, PLC Programming Process Control Instrumentation, Embedded Systems etc.

Automobile

Basic Level

- Basic Milling, Fitting , Turning, Welding, Brazing, Dismantling and Assembly Practice of Engines.
- Two Wheeler repairing, Motor Testing, Electrical Fittings, Wiring, etc.

Related Areas / Advanced Level

- Autotronics , Maintenance of Light Motor Vehicles, Diagnosis, Repair & Maintenance of MPFI Petrol Engine, Scan Tool, FIP calibration, Wheel aligning/balancing etc.

Chemical

➤ Basic Level

Various types of titration such as Acidimetry, Alkalimetry, back titration, wet analysis, Laboratory Safety, Water analysis etc.

➤ Related Areas / Advanced Level

Gas Chromatography, UV-Vis Spectrophotometer, Quality Control, HPLC and Process Safety Management

(B) Fees Structure:

- (i) Tuition Fee :

As the Programme has to be undertaken exclusively for the First Party, the same will be treated as Tailor Made Course as announced by the Govt. of India. Accordingly, the fees as applicable to the Category ie Rs.2000/- per week/ per trainee will be charged.

If the candidates are willing to attend the programme as per our schedule and approved curriculum, the fee in such category will be Rs1000/ per week / per trainee.

- (ii) Registration Fee : Rs.100/- per participant / per course
- (iii) Gymkhana Fee : Rs. 15 per trainee / per course
- (iv) Hostel Rent : Rs.100/- per day / per trainees
- (v) Boarding : On Dividing basis in the Mess

- (C) Period of Training : Upto 12 weeks depending upon the need and As per mutual convenience.
- (D) Level of participants : The participants from 1st year of degree Onwards
- (E) Method of Registration : Through sponsorship certificate from the Institute duly signed by the competent Authority.
- In case of TMC, a minimum of 3 week prior Request to be made for the minimum batch size of 10 to 15 candidates.
- (F) Scope of Training : Time / Duration – 9.00 AM to 5.30 PM
On 5 working days (Monday to Friday)
- Training Schedule / Course Material with Stationery will be provided
- Working Lunch and Refreshment charges To be provided separately, if required.
- First & Second Party shall appoint Co-ordinators from both the sides for Better co-ordination.
- Pre Test / Post Test / Continuous evaluation Can be conducted.
- On successful completion, the Govt of India Certificates will be issued subject to minimum attendance of 80%.