



കേരളം കേരल KERALA

No: SL/UCALUVA/21-22

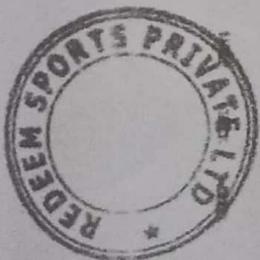
25AA 354216

Date: 17/8/2021

**Agreement**

This deed of Agreement made on 17th August 2021 by and between the Manager UC College, Aluva of one part herein after referred to as the first party and Redeem Sports Pvt Limited headed by Shri.Tinu Yohanam (T.C.Yohanam Sports Foundation for Reviving Sports & Empowering Youngsters) represented by its Manager hereinafter referred to as the second party of another part.

Whereas the second party has made a request to the first party, for granting permission to it to use the Cricket fields, nets and dressing rooms situated near South west side of the cricket ground and jogging track of the cricket field, for giving coaching to their trainees. And whereas the first party has agreed to grant permission to the second party, subject to the following terms and conditions.



*[Handwritten signature]*

*[Handwritten signature]*

MANAGER  
UNION CHRISTIAN COLLEGE  
ALUVA - 683 102



3353 17/8/2021 20/  
Redeem sports Pvt. Ltd.  
Aluva.



भारतीय गैर न्यायिक

बीस रुपये

रु.20

Rs.20

TWENTY  
RUPEES

INDIA

INDIA NON JUDICIAL

Therefore, this agreement is as follows:

1) The permission granted is for giving training to the trainees throughout the week commencing from 08/08/2021 KERALA, for initial period of One year and can be further extended to five years by mutual agreement: 25AA 354217

- 2) The time allowed is from 6.30 AM to 8.30 AM and evening 3.30pm to 6.30pm (Saturdays) and 4.00 PM to 6.30 PM on all week days. On Sundays and holidays timing is from 8.00am to 5.00pm.
- 3) The coaching shall not affect the normal use of ground by the College or its students, the facilities will extend to the college players for were as recommended by the Physical Education department and the decision of the first party in this regard shall be final.
- 4) Second party will extend the service of their fitness trainer to the entire sports teams of UCC in morning sessions free of cost.
- 5) Second party will provide coaching to UC college cricket teams along with their regular sessions without any fees incurred.
- 6) Cricket clinics shall be offered by the first party which can be benefitted to the college students as well.
- 7) Whenever the college management requires the said ground for college management's purposes, the first party has the right to direct the second party suspend the coaching/ withdraw the permission granted for such day or days, after giving intimation to the second party and such direction of the first party shall be binding on the second party.

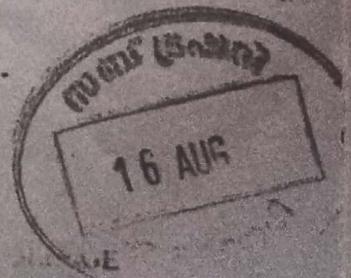


3354

17/8/2021 20/-  
Redeem sports Pvt. Ltd.  
Aluva



MANAGER  
UNION CHRISTIAN COLLEGE  
ALUVA



भारतीय वीर न्यायिक

बीस रुपये

₹.20



Rs.20

TWENTY  
RUPEES

8) If the ground is unavailable for training a period exceeding 7 days, the first party shall give one week notice to the second party.

9) The second party shall not transfer the permission granted by this agreement for training in the ground, to anyone else.

10) The second party shall not carry out any work or alternation in the ground without the written consent of the first party. 201A 754218

11) The second party, shall not use the nets and dressing room for any other purpose than providing coaching/ courses & trainings for trainees & Coaches, matches for the purpose of training. However for the first party has the right to regulate or restrict such matches.

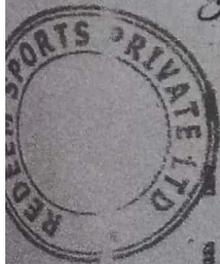
12) The second party shall not give training to any trainee/person who in the opinion of the first party shall not be permitted to undergo training in the ground of the College and the decision of the first party in this regard shall be final and binding.

13) The second party will be fully liable and responsible for the conduct of the trainees and coaches during the training and in connection with the same.

14) The financial and administrative responsibility of the coaching program is completely vested upon the second party, and the first party shall not responsible for such and any other matters connected with the training.

15) The first party has agreed to provide a toilet facility for the players (Men- near Basketball court and Women- women waiting room). The above facilities will be provided at the sole discretion of the first party. It is the liability of the second party to oversee cleanliness of the area during their coaching time.

3355 17/8/2021 20/-  
Redeem sports Pvt. Ltd.

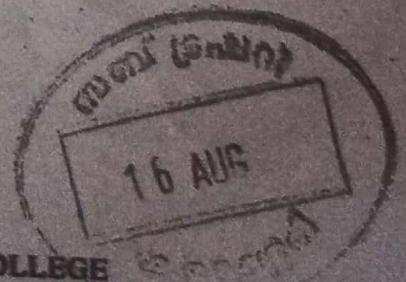


*[Handwritten signature]*



*[Handwritten signature]*

MANAGER  
UNION CHRISTIAN COLLEGE  
ALUVA - 683 102



भारतीय गैर न्यायिक

बीस रुपये

₹.20



Rs.20

TWENTY  
RUPEES

INDIA NON JUDICIAL

16) The first party has agreed to give permission to the parents of the players to enter the ground during training given by the second party. 25AA 354219

17) Either party can terminate this agreement before the expiry of the period of agreement by giving 7 days to the other party for violation of the terms of this agreement by the other party or any other reasons whatsoever.

18) On the expiry of the period of the agreement, if the second party makes a request, it can be renewed for a further period, solely at the discretion of the first party.

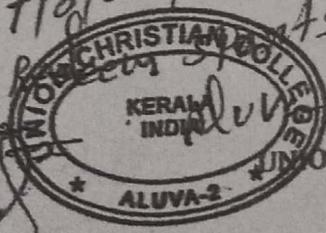
19) The second party will have to pay amounts for construction of 1 concrete wicket Net, maintenance of the existing net, maintain existing centre mud pitch and purchase of coil mat for practice matches and monthly maintenance of the existing field to the first party and the first party will take up the construction work according to the demand of the second party. In the event of termination of the agreement before the expiry of the term of the agreement by the second party for any reason whatsoever or termination by the first party for breach of any of the terms the agreement by the second party or for any reason beyond the control of the first party, the above amount incurred in connection with the construction of the facility by the second party will not be refunded even in part.

(Approximate Estimate - Construction of concrete pitch with nets and maintenance of existing approximate cost 1 lakh, initial maintenance clearing cricket ground 15000/-, Maintain existing centre mud pitch - 15000/- and the year around maintenance Rs.50000/-)

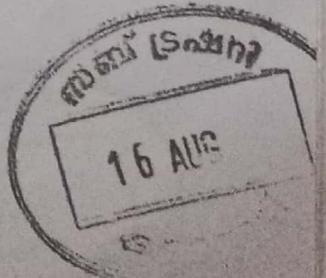
3356 17/8/2021 20k  
Redem Sports Pvt. Ltd.



Handwritten signature



MANAGER  
UNION CHRISTIAN COLLEGE  
ALUVA - 683 102



भारतीय गैर न्यायिक

बीस रुपये

रु. 20



Rs. 20

TWENTY RUPEES

INDIA NON JUDICIAL

20) The second party will construct the sports facilities (indoor cricket practice facility with Astro turf and 4 natural turf pitches with net by September 2022 upon the renewal of the agreement

CA 0830 KERALA

25AA 354220

21) The second party shall be liable and responsible for any loss or damage caused to the first party in connection with the above agreement.

22) All the payment in connection with the construction of the infrastructure should be paid by the second party through College Bursar's office.

*[Handwritten signature]*

*[Handwritten signature]*

MANAGER  
UNION CHRISTIAN COLLEGE  
ALUVA - 683 102



3357 17/8/2021 20/-  
Redeem Sports Pvt. Ltd.  
Aluva

*[Handwritten mark]*



This Agreement is prepared in duplicate and original shall be kept with the first party and the duplicate shall be given the second party.

In witness whereof the parties hereto have put their respective hands and seals in their presence on the day, month and year, first here in above written.



Manager  
College Aluva  
The first party

*[Signature]*  
17/08/2021

MANAGER  
UNION CHRISTIAN COLLEGE  
ALUVA - 683 102

(2)  
Managing Director  
Redeem Sports.Pvt.Limited  
Second party

*[Signature]*  
17/08/2021



Witnesses

*[Signature]*  
17/08/2021  
Dr. Rachel Reena Philip  
Principal/Creating & Disbursing Officer  
Union Christian College, Aluva.

*[Signature]*

Sop Mathew Dan



## **Report of the MOU with T.C. Yohannan Sports Foundation and Union Christian College, Aluva (Physical Education Department)**

### *Union Christian College Cricket Academy: Fostering Excellence in Cricket*

At Union Christian College, cricket has been an integral part of our sporting legacy since its inception. With a strong commitment to nurturing talent and promoting sportsmanship, our Men's and Women's cricket teams actively participate in various district, university, and state level championships. The collaboration with KCA Women's Cricket Academy at Union Christian College has proven to be instrumental in empowering aspiring cricketers and elevating the standard of cricketing excellence. The abstract highlights the college's commitment to providing a nurturing environment for cricket enthusiasts, fostering growth, and producing exceptional sporting talent. One of the cornerstones of our success in cricket has been our strategic associations with professional academies. We have had the privilege of partnering with esteemed institutions like T.C. Yohannan Sports Foundation Cricket Academy, an initiative by Redeem Sports Pvt. Ltd., headed by Mr. Tinu Yohannan, a former Indian Cricket player. This partnership, which commenced in August 2021 for a period of 5 years, was established to revive the cricketing culture at Union Christian College. Through this alliance, our cricket infrastructure has been upgraded, providing our students access to professional coaches and innovative training methods. At Union Christian College Cricket Academy, we continue to believe in the power of sports to inspire, transform, and create future leaders. We are committed to nurturing the spirit of cricket among our students, and our partnerships with reputed organizations further reinforce our mission to achieve excellence in the world of Cricket.

**Class Timings:** We have sessions available in the evening, ensuring flexibility and accessibility for all.

Saturday & Sundays – 7.00AM to 5.00PM

Coach: Mr. Anson Antony



**Activity and Proof:** The MoU was signed for reviving Sports & empowering youngsters through trainer service to Union Christian College team, coaching etc.

**TC YOHANNAN SPORTS FOUNDATION CRICKET ACADEMY**

AN INITIATIVE BY

 **REDEEM SPORTS PVT.LTD.**

IN ASSOCIATION WITH

Est. in 1921

 **UNION CHRISTIAN COLLEGE, ALUVA**

**CONTACT**  
93 87 87 87 84

**VENUE**  
UC COLLEGE ,ALUVA

**NO AGE LIMIT**

- SPECIAL TRAINING FOR FAST BOWLERS
- CENTER WICKET SESSIONS
- FELDING SESSIONS
- STRENGTH & CONDITIONING SESSIONS
- PRACTICE MATCHES

**FROM APRIL 1**

**2k22**



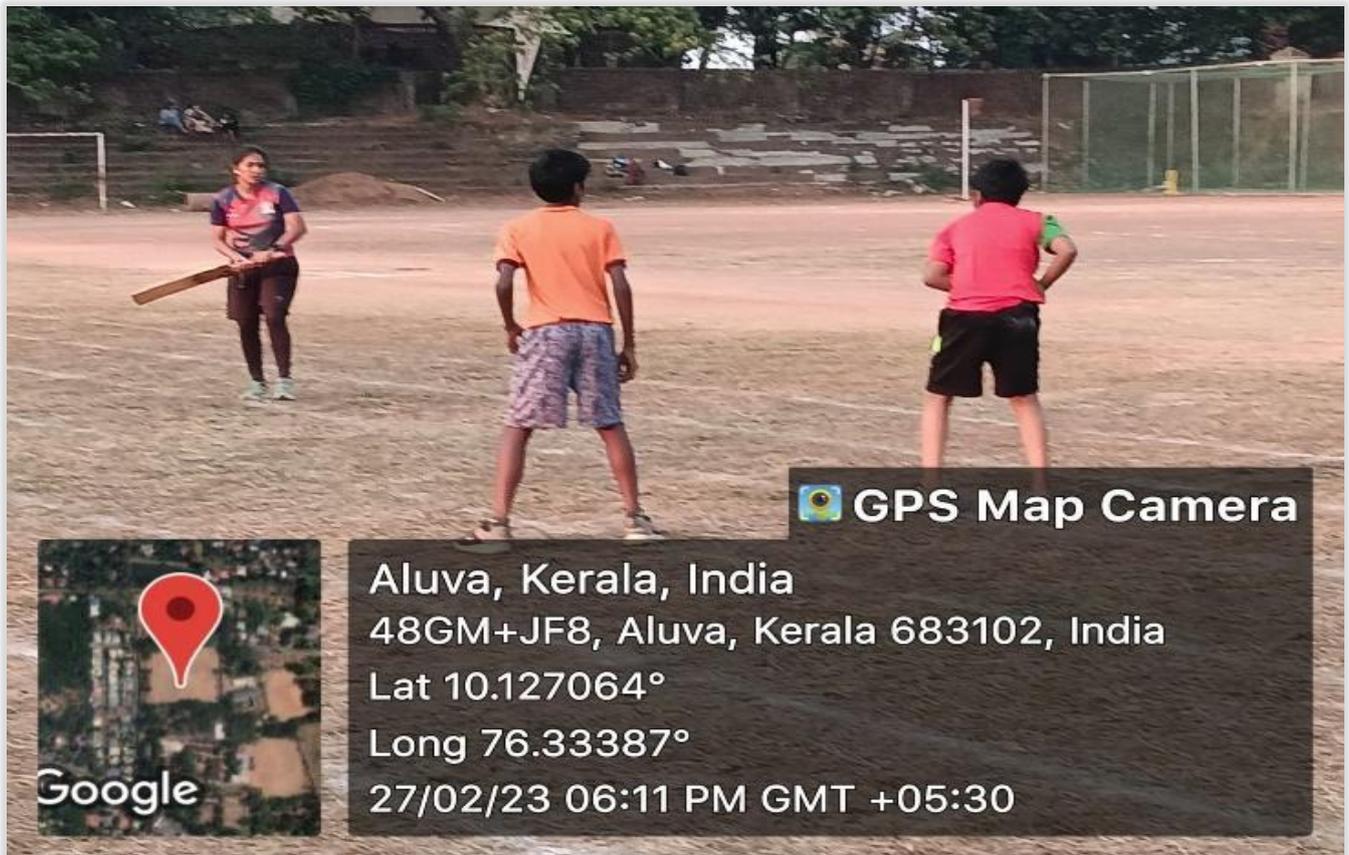
# UNION CHRISTIAN COLLEGE, ALUVA

Affiliated to Mahatma Gandhi University, Kottayam, India

NAAC Re-Accredited with A Grade in 4<sup>th</sup> Cycle (CGPA 3.45)

[www.uccollege.edu.in](http://www.uccollege.edu.in)

SSR  
5<sup>th</sup> CYCLE  
2023



 GPS Map Camera

Aluva, Kerala, India

48GM+JF8, Aluva, Kerala 683102, India

Lat 10.127064°

Long 76.33387°

27/02/23 06:11 PM GMT +05:30



Google

TC YOHANNAN SPORTS FOUNDATION

**CRICKET SUMMER COACHING CAMP**

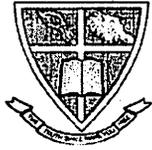
2k23

**FROM APRIL 1**

VENUE: UC COLLEGE ALUVA

**FOR REGISTRATION**  
9387 8787 84

- ★ FREE FOR GIRLS
- ★ BASICS OF THE GAME
- ★ EMPHASIS ON MATCHES
- ★ PHYSICAL & MENTAL CONDITIONING SESSIONS



**Academic Agreement  
between  
Indiana University of Pennsylvania  
and  
Union Christian College  
Fall 2021**

## **INTRODUCTION**

This agreement is written in the spirit of promoting international friendship by supporting intercultural activities and projects between the United States and India.

Indiana University of Pennsylvania (hereinafter IUP) and Union Christian College (hereinafter UCC) enter into this agreement beginning with Fall 2021. The purpose of this agreement is to formalize the cooperative activities that exist between IUP and Union Christian College in the areas of reciprocal welcome of students, faculty, and scholars.

This agreement supersedes all and any Agreements previously entered by both IUP and UCC; including Memorandums of Understanding, Addendums to Memorandums of Understanding, 2+2 Undergraduate Program Agreements, and Exchange Agreements.

Either party to this agreement can terminate the agreement with a 90-day written notification. In such case, the programs in progress at the time of termination would continue until the end of the academic year.

The program will be financed on the basis of reciprocity, with each of the parties to the agreement responsible for the expenses incurred outlined in *Article 3* below. Fluctuations in the rate of exchange will not change the reciprocal obligations of either party to this agreement.

## **ARTICLES**

### **Student Exchanges**

*Article 1:* IUP and UCC agree to base their exchanges on the principle of reciprocity. The contributions of each of the parties may be periodically reviewed by IUP and UCC on the basis of both feasibility and past experience. Changes based on the findings of this review must be agreed upon by both parties in writing and may be appended to the original agreement.

Exchanges will take place on a one-for-one basis (one semester for one semester). The length of student exchanges may be one semester (fall or spring) or two semesters (fall and spring). Should students wish to remain at either institution for the duration of their studies, and not just for the terms of their original exchange, they may do so. However, it will be at the individual student's

expense and will **not** be part of the one-for-one arrangement. For example, a UCC student wishing to remain at IUP for any semesters beyond the initial exchange period will do so at his/her own expense for tuition, fees, and living expenses. Likewise, an IUP student wishing to remain at UCC for longer than two semesters will be responsible for any and all expenses, charges and fees.

The maximum "banked" semesters owed to either participating university is three (3) semesters. For example, if IUP sends 3 students (6 semesters) to UCC, and UCC sends 6 students (12 semesters) to IUP, there is a 6 semester bank owed to IUP. In this case, no further students will be accepted from UCC until IUP sends at least 2 students (4 semesters) to UCC, resulting in a 2 semester bank owed by IUP. However, it would be below the 3 semester limit and 1 additional student from UCC could attend IUP.

IUP and UCC exchange students will have an appointed advisor at the exchange institution to assist the students during the exchange.

Article 2: The exchange of students will be university-wide with the following restrictions:

**IUP Restrictions**

- a) One semester exchange maximum per graduate student.
- b) Payment of any associated tuition and fees at normal non-resident rate if total credit hour registration in any academic term exceeds the maximum full-time credit hour total for IUP undergraduate or graduate enrollment.
- c) No winter, summer, or inter-semesters will be covered under this agreement.

**UCC Restrictions**

- a) Five weeks exchange for Graduate and Undergraduate Students of UCC visiting IUP, USA.
- b) No stay beyond five weeks is permitted
- c) Those who want to do MS in IUP should follow the procedure of IUP and UCC will not be responsible for any arrangement.

Article 3: Financial terms of exchange of students between IUP and UCC:

**IUP exchange students will be responsible to pay:**

- a) Exchange fee as set and collected by IUP;
- b) Any housing and meal fee options elected by the student;
- c) Expenses related to elective excursions and personal expenses;
- d) Any optional or penalty fees incurred by action of the student (e.g., damages, key fees, infirmary fees, late fees, etc.);
- e) Airfare and transportation costs;
- f) All exchange students attending UCC will have appropriate medical coverage, including health insurance and life insurance. Proof of insurance will be required of each student from IUP attending UCC.

**UCC exchange students will be responsible to pay:**

- a) Exchange fee as set and collected by UCC;
- b) Any housing and meal fee options elected by the student;

- c) Expenses related to elective excursions and personal expenses;
- d) Any optional or penalty fees incurred by action of the student (e.g., damages, key fees, infirmary fees, late fees, etc.);
- e) Airfare and transportation costs;
- f) All exchange students attending IUP will have appropriate medical coverage, including health insurance and life insurance. Proof of insurance will be required of each student from UCC attending IUP.

**Article 4:** UCC exchange students will be accepted at IUP provided the exchange students meet existing admissions requirements. Further, UCC exchange students will be accepted by IUP at the level of their qualifications. UCC students will take IUP courses and appropriate exams, which will be evaluated for the degree of quality. UCC students satisfactorily completing IUP coursework will be issued official transcripts. Similarly, IUP students will be accepted by UCC at the level of the student's qualifications. IUP students will take UCC courses and appropriate exams, which will be evaluated for the degree of quality. IUP students satisfactorily completing UCC coursework will be issued official transcripts.

**Article 5:** Parties of this agreement may consult about issues arising under this agreement, and understandings reached through these consultations may be appended to this agreement.

**Article 6:** Additional UCC exchange students are welcome to attend IUP at a reduced tuition rate (170% of in-state tuition). All applicable fees will be paid by these additional UCC students. These UCC students will not be counted in the one-for-one exchange arrangement but will still be considered participants of this agreement.

### **Undergraduate Degree-Seeking Students**

**Article 7:** UCC students seeking academic degrees from IUP are welcome to attend IUP for a degree at a reduced tuition rate as follows:

#### **UNDERGRADUATE:**

- 170% of in-state tuition

All applicable fees will be paid by these additional UCC students. These UCC students will not be counted in the one-for-one exchange arrangement but will still be considered participants of this agreement.

UCC will work with IUP in the recruitment of qualified students. UCC accepts responsibility for onsite promotional efforts. UCC agrees that all promotional materials will be consistent with degree requirements spelled out in current IUP catalogs and websites with the provisions in this agreement related to coursework timing and delivery. UCC agrees to send IUP's Office of International Education copies of all printed and electronic promotional materials associated with this agreement.

Based solely on this agreement, each UCC student seeking a degree from IUP will be responsible for payment to IUP for the following:

- a) Admission Application Fee;
- b) Reduced tuition (170% of in-state tuition) for undergraduate students;
- c) All required semester IUP fees;

- d) Any associated tuition and fees at normal non-resident rate if total credit hour registration in any academic term exceeds the maximum full-time credit hour total;
- e) Any housing and meal fee options elected by the student;
- f) Any optional or penalty fees incurred by action of the student (e.g. damages, key fees, infirmary fees, late fees, etc.).

Article 8: This agreement covers students enrolled in their current degree programs. Students wishing to continue after obtaining their current degree to pursue a second degree will be subject to all non-resident tuition and fees.

### **Faculty and Staff Exchanges**

Article 9: The exchange of faculty and professional staff will be based on the principle of reciprocity.

- a) Exchange professors at either institution shall be provided an appropriate office.
- b) Teaching courseloads and working hours and conditions shall be in accordance with established rules and practices of the host institution, although courseloads and working hours may be modified downward at the discretion of the host institution.
- c) Each exchange faculty is responsible for his/her own transportation, housing, living expenses, hospital and medical expenses (health insurance), as well as all personal expenses; unless otherwise supported by special funding. The host university may help the exchange faculty in finding housing, but the expenses thereof shall be totally borne by him/her.
- d) Nothing in the above listed articles shall be construed to imply a prior financial obligation by either party. Any financial commitment by either party to this agreement must result from, in each case, a specific written accord detailing such commitments.

Article 10: The host institution will approve, in writing, 90 days prior to the exchange the responsibilities of the exchange participant, the period of the exchange, and any other conditions governing the term of the exchange.

Article 11: Financial arrangements will be as follows:

- a) The home university or the participant will cover the cost of travel to and from the host university.
- b) The home university will pay the participant his/her usual salary during the period of the exchange.

Article 12: All participants will be required to meet language skills as prescribed by the host institution.

APPROVALS

[Signature]  
IUP PRESIDENT  
April 26, 2021  
DATE

[Signature]  
IUP PROVOST AND  
VICE PRESIDENT: ACADEMIC AFFAIRS  
21 April 2021  
DATE

[Signature]  
IUP ASSOCIATE VICE PRESIDENT:  
INTERNATIONAL EDUCATION AND  
GLOBAL ENGAGEMENT  
April 13, 2021  
DATE

[Signature]  
Rev. Thomas John  
UCC MANAGER  
MANAGER  
UNION CHRISTIAN COLLEGE  
ALUVA - 683 102  
03/27/2021  
DATE

[Signature]  
UCC PRINCIPAL  
Dr. Rachel Reena Philip  
Principal  
Union Christian College, Aluva  
27/03/2021  
DATE





## REPORT OF THE MOU WITH INDIANA UNIVERSITY OF PENNSYLVANIA AND UNION CHRISTIAN COLLEGE, ALUVA (BIOSCIENCES DEPARTMENT)

The MOU between Union Christian College, Department of Bioscience and Indiana University of Pennsylvania (IUP) was signed in the fall of April 2021.

### Activity and Proof

The MoU was signed to formalize the cooperative activities that exist between IUP and Union Christian College in the areas of reciprocal welcome of students, faculty and scholars.

#### 1. Lecture on “Significance on Genomic and Proteomic Studies in Plant Microbe Interactions”

As part of the MOU with Indiana University of Pennsylvania (IUP) USA, Department of Biosciences organized a lecture on “Significance on Genomic and Proteomic Studies in Plant Microbe Interactions” on 18<sup>th</sup> January 2023 at 10.30 AM in the TB Ninan Hall, Union Christian College, Aluva. Dr. N. Bharathan, Chair and Professor, Biology Dept., Indiana University of Pennsylvania, USA delivered the talk on the subject.





## **Outcome of the activity**

The Post Graduate students of Biotechnology, Bioinformatics, Botany, and Zoology got a deeper understanding about the concepts of plant genomics and proteomics.

## **2. Meeting with IUP delegates**

In continuation with the MOU signed between Indiana University of Pennsylvania and Department of Biosciences, Union Christian College, a high level discussion was held on 12<sup>th</sup> January, 2023 at Hotel Taj West End, Bengaluru for exploring opportunities for further association and Global partnership. Dr Lara Luetkehans, Provost and VP of Academic Affairs, Dr Michele Petrucci, Associate Provost, Dr N Bharathan, Chair and Professor Biology Dept. represented Indiana University of Pennsylvania and Dr. Susan Eapen Former Scientist BARC & Adjunct Professor, Dr. Sareen Sarah John, Head & Assistant Professor, Department of Biosciences represented Union Christian College in the discussion.



### Outcome of the activity

Established further association with Indiana University of Pennsylvania, USA and Union Christian College, Aluva, Kerala.

### 3. Exchange Visitor Scholar Program- Indiana University of Pennsylvania (IUP), USA.

Dr. Sareen Sarah John , Assistant Professor, Department of Biosciences, Union Christian College, Aluva visited Indiana University of Pennsylvania, USA as Exchange Visitor Scholar and took 5-week Advanced Training/research program on *Molecular Characterization of Double Stranded (ds)RNA and Protein Signatures Development in the Fungus Rhizoctonia solani* from 12<sup>th</sup> March 2022 to 30<sup>th</sup> April 2022. This training program was accomplished as part of the MOU between the Department of Biosciences, Union Christian College, Aluva, India and the College of Natural Sciences & Mathematics and Department of Biology, Indiana



University of Pennsylvania (IUP), PA 15705, USA for academic collaboration and faculty and student exchange.

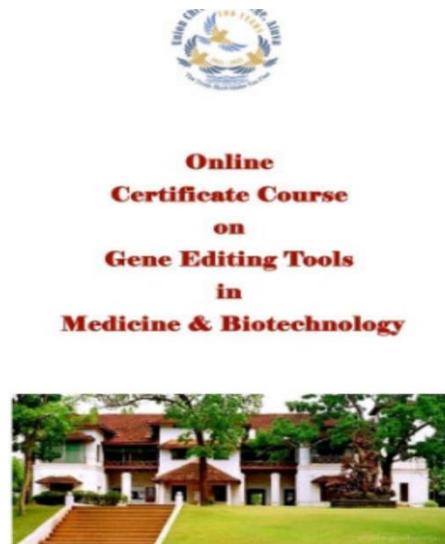


### Outcome of the activity

Academic collaboration and faculty exchange between the two institutions.

### 4. Valedictory function of Online Certificate Course on “Gene Editing Tools in Medicine & Biotechnology

The valedictory function of the **Online Certificate Course on “Gene Editing Tools in Medicine & Biotechnology** was conducted on March 7<sup>th</sup> 2022 at T.B Ninan Hall Union Christian College, Aluva. Faculty, Research scholars and students were presented with a Certificate jointly signed by Faculty Instructor from Indiana University of Pennsylvania (IUP) USA and Union Christian College, Aluva, Kerala upon completion of the certificate course.



### Outcome of the activity

Participants shared specific details about what they found valuable in the course, how it has impacted their skills or knowledge, and the tangible results they've achieved.

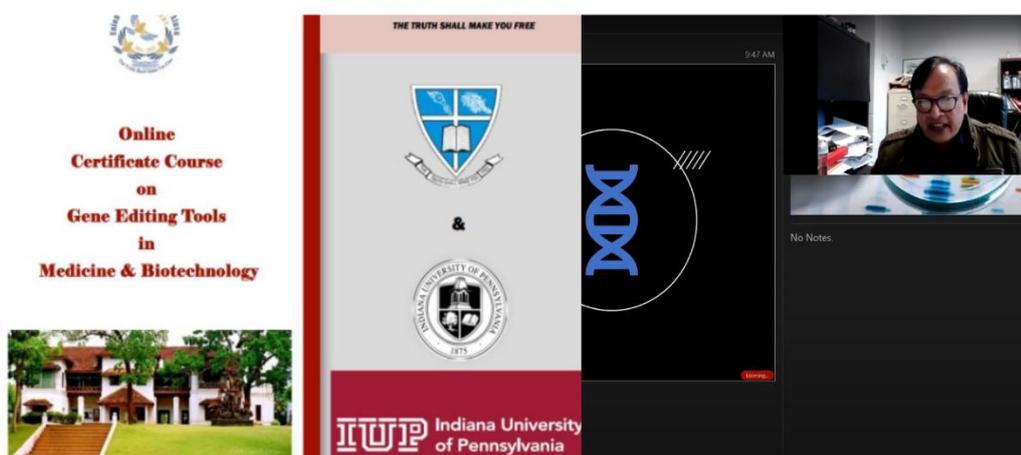
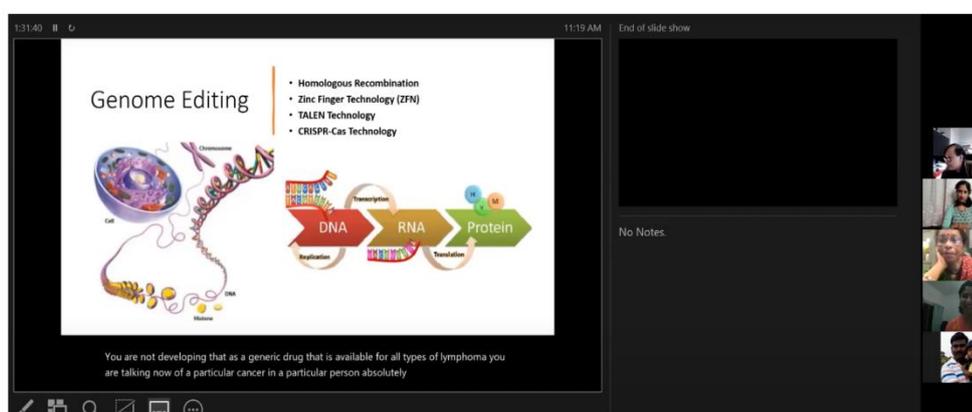
### 5. Online Certificate Course on “Gene Editing Tools in Medicine & Biotechnology

As a part of the academic collaboration with the College of Natural Sciences & Mathematics and Department of Biology, Indiana University of Pennsylvania, the Department of Biosciences offered an “Online Certificate Course on “Gene Editing Tools in Medicine & Biotechnology” under the mentorship of Dr. N. Bharathan, Chair



& Professor, Biology Department for the Post Graduate students, Faculty and Research Scholars of Biosciences, Botany & Zoology Departments of Union Christian College and a limited number of outside students and faculty.

The virtual classes were held from October 2021 to February 2022. Dr. N. Bharathan, Chair, Biology (IUP) took classes for 3 hours every Saturday & Sunday through Zoom platform. Classroom lectures included types of gene editing tools, principles of CRISPR-Cas9 gene editing and its application in agriculture, vector-borne diseases, viruses, drug therapeutics, drug development, and cancer immunotherapy.



### Outcome of the activity

Two exams, written assignments and discussion forums were conducted to assess the knowledge gained by each participant during the course and also could complete the certificate programme in association with IUP.

### 6. Genomics and Proteomics based approach to identify Biological Agents

To initiate the MOU with Indiana University of Pennsylvania (IUP) USA, Department of Biosciences Union Christian College, Aluva, Kerala conducted a lecture on Genomics and



Proteomics based approach to identify Biological Agents on 27<sup>th</sup> March, 2021 at TB Ninan Hall, Union Christian College, Aluva. Prof. Dr. N. Bharathan PhD, Professor & Chair, Biology, Indiana University of Pennsylvania, Pennsylvania, USA served as the resource person.



### Outcome of the activity

Union Christian College started the discussion about the possibilities of a MOU between with Indiana University of Pennsylvania (IUP) USA, Department of Biosciences Union Christian College, Aluva, Kerala. Students of Biosciences, Zoology departments got a deeper understanding about the concepts of genomics and proteomics in medicine.



# EXTERNSHIP PROGRAM

## Contract Agreement

## CONTRACT AGREEMENT

THIS AGREEMENT HAS BEEN EXECUTED ON THE 26<sup>th</sup> DAY OF November 2021  
BETWEEN

**M/s. Union Christian College**, having its registered address at Aluva - 683102, Kerala, India. hereinafter referred to as “**College**”.

AND

**M/s. SmartBridge Educational Services Pvt. Ltd**, having its corporate office at Plot No. 132, 2<sup>nd</sup> Floor, Above DCB Bank, HMT Nagar, Nacharam, Hyderabad, Telangana – 500076 hereinafter referred to as “**Company**”.

NOW, THEREFORE, for and in consideration of the mutual understanding i.e. Proposal/s, benefits and covenant contained herein and for other good and valuable considerations sufficiency's of which are hereby acknowledged among all the directors, intending to be legally bound, hereby agree as follows:

### **1. SCOPE OF WORK:**

Both the parties agreed to work collaboratively & execute Externship program for the students to build practical skills through Hands-on Projects, refer **Annexure-1** for the complete details of the externship program.

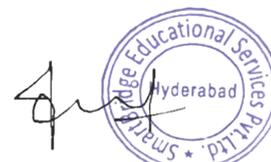
### **2. ROLES & RESPONSIBILITIES:**

#### **2.1 COMPANY'S ROLE & RESPONSIBILITIES:**

- a. Enrolling the students to the platform
- b. Provide online training to the students
- c. Assigning the mentors to the students
- d. Enrolling students to IBM Academic Initiative
- e. Reviewing the project deliverables of students
- f. Reviewing the project documentation
- g. Approve the projects.
- h. E-Certificate generation & distribution
- i. Generating interim & final reports of the program



Dr. A V Alex ,Director, MCA  
Union Christian College



SmartBridge

## **2.2 COLLEGE'S ROLE & RESPONSIBILITIES**

- a. Assign a SPOC for the program
- b. Enroll the students to the program
- c. Confirm the training calendar
- d. Coordination with SmartBridge team
- e. Coordination with students for training program
- f. Monitor the progress at each stage
- g. Generate feedback reports from students
- h. Coordinate with accounts for payments

## **3. COMMERCIALS & PAYMENT TERMS:**

- a. COLLEGE is liable to pay COMPANY **INR 4200/-** (Four thousand two hundred Indian rupees only) for each student taking part in the Program, which is inclusive of all applicable taxes.
- b. Above pricing is provided considering 110 or above nos. of confirmed Participants. The pricing may vary if the number of registrations are less than agreed.
- c. 30% of overall Invoice amount will be settled before the start date of program.
- d. 40% will be settled immediately after completion of training sessions (3 Weeks)
- e. 30% Balance amount will be cleared immediately after project development.
- f. Payment can be done via NEFT /RTGS based on the Invoice generated

## **4. GENERAL TERMS & CONDITIONS:**

- a. Students with successful project submissions only will receive the certificates.
- b. Entire program will be organized remotely via Zoom Meetings.
- c. Students must complete the e-learning courses assigned to them.
- d. Students must register in prior for the technical bootcamps as per the schedule.
- e. Students must complete the projects assigned to them without fail.
- f. Only e-certificates will be provided.
- g. The payments are non-refundable

  
Dr. A V Alex ,Director, MCA  
Union Christian College



  
  
SmartBridge

## 5. TERMS OF AGREEMENT:

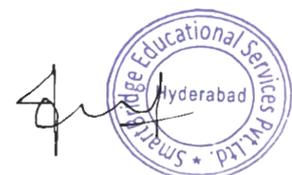
This agreement will be reviewed, and may be modified or amended, through the mutual agreement of the signatory parties, as may be necessary to clarify and formalize roles, responsibilities, timelines, and assurances regarding the scope of work.

The agreement can be dissolved at any time after 26<sup>th</sup> February, 2022 from the date of entering in to this agreement by mutual consent of the parties, in which event the parties shall proceed with reasonable promptness to settle the accounts of the partnership as per the outlined guide lines.

IN WITNESS WHEREOF through their authorised representatives executed these presents and affixed Common Seals of their companies, on the day, month and year first mentioned above.

<p>For <b><u>Union Christian College</u></b></p>   <p>Name: Dr. Alex A V Designation: Director, MCA Department</p>	<p>For <b><u>SmartBridge Educational Services Pvt. Ltd</u></b></p>   <p>Name: Jai Prakash Netha Designation: Program Manager</p>
--	--

  
Dr. A V Alex ,Director, MCA  
Union Christian College



SmartBridge

## Annexure – I (Externship Program)

### 1. Introduction:

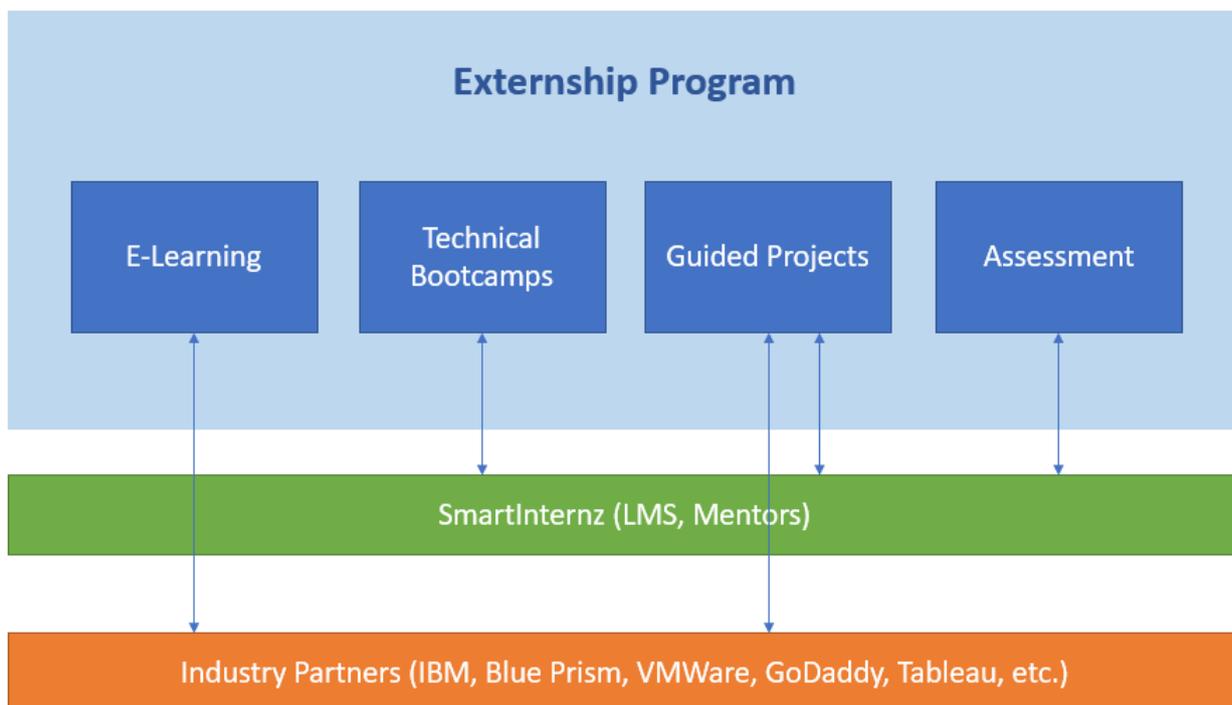
Externship is an experiential learning opportunity, similar to internships but generally shorter, provided by partnerships between educational institutions and employers to give students short practical experiences in their field of study.

Externships provide the unique opportunity for students to demonstrate what they've been learning in a real-world work environment, as well as a chance for the student to determine that the field they are interested in is a good fit.

Externships usually occur during the academic year, as a part of a student's curriculum, and provide an experiential learning environment that offers real-world insight to theoretical topics being learned about in college. Externships usually come about due to existing relationships between colleges and organizations willing to offer training.

### 2. Program Structure:

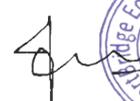
SmartBridge has partnered with corporates to bring this unique opportunity for the students. The program includes the learning resources, guided projects, and mentoring support.



The Externship program is an industry partnered program with learning, mentoring and hands-on experience with projects approved by companies.

  
Dr. A V Alex ,Director, MCA  
Union Christian College



  
  
SmartBridge

### 3. Externship – Applied Data Science (in partnership with IBM)

#### 3.1 Program Overview:

- a. 1-Months Program
- b. 40 Hrs. of online instructor-led training (daily 3 Hrs. for 3 Weeks)
- c. Access to online courses
- d. DevOps, Agile & Design Thinking mini courses from IBM
- e. Guided Project approved by IBM
- f. Mentor support
- g. Project completion certificate from IBM

#### 3.2 Course Outline:

##### Introduction to Machine Learning

- Overview of Foundation Training
- What is Machine Learning
- Use cases of Machine Learning
- Types of Data
- Role of Machine Learning Engineer
- Different types of Machine Learning

##### Environment Setup of anaconda Introduction to python programming

- Python Data Structures
- Python Programming Fundamentals
- Conditions and Branching
- Loops
- Functions
- Python Packages
- Overview of OOP Terminology

##### Python for Data science

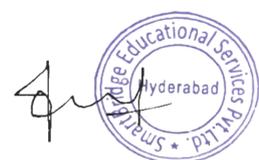
- Working with NUMPY
- Working with Pandas
- Introduction to Data Visualization
- Introduction to Matplotlib and Seaborn
- Basic Plotting with Matplotlib and Seaborn
- Working with Scikit-Learn

##### Data Wrangling Techniques

- Introduction to Data preprocessing
- Importing the Dataset
- Handling Missing data
- Working with categorical Data
- Splitting the data in to Train and Test set
- Feature Scaling



Dr. A V Alex , Director, MCA  
Union Christian College



SmartBridge

## Introduction to Supervised Machine Learning

### Introduction to Regression Algorithms

- Linear Regression
- Multiple Linear Regression
- Polynomial Regression
- Decision Tree

### Introduction to Classification algorithms

- Logistic Regression
- K-Nearest Neighboring
- Support Vector Machine
- Naive-Bayes
- Decision Tree Classification
- Random Forest Classification

## Model Evaluation for classification and regression problems

### Unsupervised Learning

- K-Means Clustering

### Introduction to different modes of Deployments

- Working with the Flask framework
- Building an application with Flask Framework
- Integrating Machine learning model with Web Application
- Introduction to IBM Python Flask APP
- Deploying Python Flask application on IBM Python

### Introduction to IBM Cloud Services

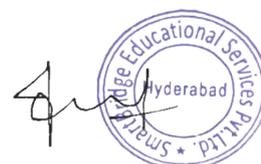
- Introduction to IBM Cloud
- Introduction to Watson Studio
- Building Machine learning model in Watson Studio
- Deploying Machine Learning Models as web services

### Introduction to Auto AI

- Building a Machine Learning Model Using Auto AI
- Introduction to IBM Node-red
- Integrating Machine Learning model to IBM Node-red
- Building Web Application



Dr. A V Alex , Director, MCA  
Union Christian College



SmartBridge

### 3.3 Sample Certificate of Completion:



**Externship Certificate**

**Project Completion Certificate**

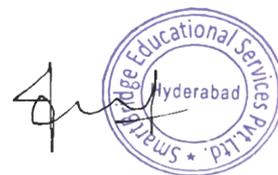
### 3.4 Pre-Requisites:

The student must fulfil the following requirements to join the program.

- This program has been offered exclusively to the students
- A valid document must be submitted to authenticate the students status
- Students shall have knowledge on fundamentals of python programming.
- Students must have a laptop / computer with min. 4GB RAM & i3 processor
- The institution shall accommodate the training programs in the academic schedule.
- The institution shall assign a faculty in charge for coordination.

*Dr. A V Alex*

Dr. A V Alex , Director, MCA  
Union Christian College



SmartBridge



## Report of the MOU with Smartbridge Educational Services Pvt. Ltd. Hyderabad and Union Christian College, Aluva (School of Computer Applications)

The MOU between Union Christian College, School of Computer Applications and Smartbridge Educational Services Pvt.Ltd. Hyderabad powered by IBM Developer Skills Network was signed on 26/11/ 2021. The contract is renewed yearly.

### Activity and Proof

The MoU was signed to associate with the company to provide an Externship program for the students to build practical skills through Hands-on Projects. The organization provides online training sessions in the evening and the students are assigned a project based on the course with a deadline to complete the project. The students who complete both the course and project will be provided an externship certificate by the organization. The students who complete only the course will be awarded a course completion certificate. The sample copy of the certificate received by a student of 2021-2023 batch is attached herewith.

Est. in 1921  
SCHOOL OF COMPUTER APPLICATIONS  
UNION CHRISTIAN COLLEGE, ALUVA

SMARTBRIDGE  
Let's Bridge the Gap

VALUE ADDED COURSE

**MACHINE LEARNING**  
IN ASSOCIATION WITH

IBM

27th Dec 2022 to 28th Feb. 2023  
6 PM to 9PM

VIRTUAL MEET



## Externship Certificate

This to certify that

### Devinarayanan K

has successfully completed the externship program on Applied Data Science powered by IBM from 27 December 2022 to 11 February 2023 and fulfilled the project work requirements.

Certificate ID: Ext-ADS-2023-51146

February 14, 2023

Issued Date

Jayaprakash. Ch  
Program Manager



This is to certify that

### Devinarayan K

has completed all courses in the learning path

### Power Management: Using Machine Learning for Enhanced Prediction of Full Load Electrical Power Output in Combined Cycle Power Plants

a learning path on [smarterbridge.skillsnetwork.site](https://smarterbridge.skillsnetwork.site)

Powered by IBM Developer Skills Network

Issued by  
SmartBridge

Issued on  
February 15, 2023

**Power Management: Using Machine Learning for Enhanced Prediction of Full Load Electrical Power Output in Combined Cycle Power Plants** consists of the following courses:

- DevOps Fundamentals
- Design Thinking
- Agile Training Module

Rav Ahuja  
Program Director  
Skills Network, IBM

Amarendra Katkam  
Founder & CEO  
TheSmartBridge

Authenticity of this certificate can be validated by going to <https://smarterbridge.skillsnetwork.site/certificates/8cf6bba5-ed15-415d-acc9-f4595f1e7c9f>



Date: 29<sup>th</sup> March 2023

## TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Devinarayanan K** pursuing Masters in Computer Applications from Union Christian College, Aluva has successfully completed his/her Externship with SmartBridge Educational Services Private Limited from 27<sup>th</sup> December, 2022 to 11<sup>th</sup> March, 2023.

During the period of Externship we found he/she had learned the concepts of **Machine Learning (ML)** and successfully completed a project.

We wish him/her all the best for his/her future endeavors.

Sincerely

**Ch. Jayaprakash**  
Lead Academia Initiative  
SmartBridge Educational Services Pvt. Ltd.

### Outcome of the activity

The students have completed the externship program by completing the course and developing a project based on the course.