

ACADEMIC ALLIANCE AGREEMENT BETWEEN
VELTECH AND UCAL-JAP SYSTEMS LIMITED
FOR CONDUCTING MASTER'S PROGRAMME IN AERONAUTICAL ENGINEERING
(UNMANNED AERIAL VEHICLE)

This agreement made on this 8th day of April 2015 between

Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology (Vel Tech Dr. RR & Dr. SR Technical University), hereinafter referred to as VELTECH, having its registered office at # 42, Avadi-VelTech Road, Avadi, Chennai 600062, represented by the Founder President (which expression unless repugnant to, or excluded by the context, shall include its successors, assignees etc.,) on the one part

And

UCAL-JAP SYSTEMS LIMITED hereinafter referred to as UCAL-JAP having its registered Office at RAHEJA TOWERS, DELTA WING - UNIT 705, 177, ANNA SALAI, CHENNAI - 600002, Tamil Nadu, INDIA, represented by the Chief Executive Officer, (which expression unless repugnant to, or excluded by the context, shall include its successors, assignees etc.,) on the other part.

Whereas,

VELTECH and UCAL-JAP (hereinafter jointly referred to as parties) hereby agree to enter into an agreement for the purpose of enhancing the relationship between the parties to start the Masters Degree Programme in Aeronautical Engineering (Unmanned Aerial Vehicle).

It is hereby agreed to by and between the two parties as follows:

- 1) The parties anticipate that this activity may include any or all of the following in general:
 - a) Conducting jointly Post Graduate Programme;
 - b) Exchange of academic staff and researchers;
 - c) Exchange of documentation, research materials, publications and information in fields of mutual interest on mutual consent;
 - d) Development, organization and hosting of joint academic and cultural symposia, conferences, workshops and meetings;
 - e) Exchange of information, advice and assistance relating to areas of mutual interest on mutual consent including, but not limited to, research activities, obtaining grants and funding, technology transfer and research commercialization, development of educational and training programmes, staff retention and long range planning and institutional development; and
 - f) Other activities of mutual benefit for the parties.
1. Both the parties agree to pool their resources and jointly offer a Master of Technology programme (Full time - 2 Years duration) in Aeronautical Engineering (Unmanned Aerial Vehicle) which is specifically designed to meet the needs of modern aeronautical industry. UCAL-JAP will contribute in-terms of giving inputs to design the Academic Curriculum, Practical Aspects of UAV operations and engaging the students in projects.
- 2) Both the parties further agree that this particular programme is a joint venture and therefore neither of the parties shall conduct them independently during the tenure of this agreement.



3) This agreement further witness that:

- a) These programmes would give, graduate engineers (who are working or who intend to work or are interested in the aeronautical particularly the UAV industry), knowledge and technical expertise in a wide range of aeronautical disciplines. It provides students confident systems viewpoint for UAV and its functionalities, Aerospace Navigation, Robotics & Dynamics, Sensors, Actual and Data Acquisition, transferable skills and knowledge applicable to the workplace.
- b) Entry Qualification required for admission to this programme would be minimum first class in Bachelors Degree in Aeronautical / Mechanical / Mechatronics / EEE / ECE or its equivalent and additionally as specified by appropriate statutory authorities.
- c) The method of selection of students would be on par with other Post Graduate Programmes run by VELTECH.
- d) VELTECH & UCAL-JAP would carry out the admissions jointly. Representatives of UCAL-JAP shall be consulted before conducting such admission procedure to each academic year.
- e) A Board of Studies will be established to design / modify course curriculum and the evaluation procedure, which will be subsequently approved by the Academic Council of VELTECH from time to time. Faculty from VELTECH, UCAL-JAP and members from aerospace & allied industries (in India and abroad) and academia would be a part of the Board of Studies.
- f) Dates of entrance exam, admission, start and end of the instructions, dates related to examination would be jointly decided by the parties and would be specified in the academic calendar of UCAL-JAP & VELTECH.
- g) The course and research/project work as specified in the course structure carried out at UCAL-JAP as well as VELTECH would be considered equivalent.
- h) Students would attend I and II semester of course work at VELTECH, Chennai and III & IV semester project work will be carried out either at UCAL-JAP or will be deputed to UCAL-JAP's projects with their project guides from VELTECH, UCAL-JAP and respective Industry.
- i) The curriculum for these programmes would be evolved jointly as per the academic norms of UGC/AICTE/NBA regulations, VELTECH & UCAL-JAP guidelines and or any other obligatory authorities and approved by the corresponding bodies.
- j) The approval for the course curriculum as per the standards requirements in India is the sole responsibility of VELTECH. UCAL-JAP will be actively helping VELTECH to present a world class structure, classes & laboratories as per industry requirements for Post Graduate course.
- k) The intake of students would be 15 each year.
- l) The dissertation viva-voce examinations would be conducted at UCAL-JAP.
- m) Examination fees will be collected by VELTECH and the entire expenses for the term end university examinations would be borne by VELTECH.
- n) The M. Tech Students' Tuition fees would be decided mutually. Fees for the forthcoming year is as specified in the Fee Structure of the agreement and can be subsequently changed / modified with mutual written consent of both the parties.
- o) Vel Tech will pay 50% of second year tuition fee to UCAL-JAP to manage their overheads to engage the students during the second year.
- p) The fees will be collected by VELTECH from each student during the admissions. VELTECH will send UCAL-JAP's share within 30 days of receipt of the fees. VELTECH will maintain records of all fees collected from all students under this agreement and send a copy of the records to UCAL-JAP.
- q) Successful candidates, on completion of the programme, would be awarded the degree by VELTECH University, Chennai is mentioning "in



association with UCAL-JAP[®]. Logo of UCAL-JAP shall be engraved on the degree certificate.

- r) VELTECH and UCAL-JAP shall designate Program Coordinators who may be assisted by appropriate local committees responsible for coordinating cooperative programs between the parties.
- s) UCAL-JAP will not have any stipend commitment to the students during the 3rd and 4th semester. Also UCAL-JAP will not have any placement commitment at the end of 4th semester. However UCAL-JAP management will consider this on a case to case merit basis.

4) Program Coordinators

- a) On behalf of VELTECH:

Mr. G. Sivakumar

Head - Industry Stream Programmes

Vel Tech Dr. RR & Dr. SR Technical University

42, Avadi-VelTech Road, Avadi

Chennai 600 062

Tel: +91-44-26841622

Email: veltech@vsnl.com & chancelloroffice@vel-tech.org

- b) On behalf of UCAL-JAP:

Mr M. Parvez Alam

Head - Business Development

UCAL-JAP SYSTEMS LIMITED

11 B/2, Ambit Park Road

Ambattur Industrial Estate

Chennai - 600058.

Tel: 9551076617

Email: alam@ucal-jap.com

5) The Program Coordinator(s) shall

- a) Receive and evaluate future proposals to enhance identifying areas and opportunities in which the parties might potentially collaborate and make recommendations on the feasibility and implementation of such proposals to their respective administrations. Any such collaboration will be formalized as an addendum to this agreement upon approval by appropriate administrative authorities and will supervise the implementation of such cooperative programmes.
- b) Identify further areas and opportunities in which VELTECH and UCAL-JAP might potentially collaborate.
- c) At appropriate intervals, arrange meetings of the Board of Studies on mutual consent in a convenient manner to discuss all aspects of the affiliation as described herein.

6) Fee Structure

The fee structure for the two year Masters Programme in Aeronautical Engineering (Unmanned Aerial Vehicle) for the Academic Year 2015-16 is given in Addendum-A. The fee structure can be reviewed by Vel Tech on a yearly basis under information to UCAL-JAP.

7) Intellectual Property

- a) The parties recognize the intellectual property rights of each other in the materials to be delivered in connection with the programme to be carried out and agree not to publish without any written permission, any paper, file any patent / copyright, trademark, registration application in its own name or in the name of its associates on any matter relating to the details



supplied / disclosed by the other party, nor take any other action that may prejudicially affect such intellectual property rights.

- b) The ownership of the intellectual property rights in the work carried out under the programme shall be mutually shared as agreed by this agreement. Neither VELTECH shall restrict UCAL-JAP nor UCAL-JAP shall restrict VELTECH from engaging in the same or similar activities with any third party. However, each party shall inform the other party of any other MoU executed by such party with any other organization/ institution in connection with any activity that is substantially the same as the activity proposed to be undertaken under this agreement; provided that neither party shall be required by this provision to breach any contractual obligation to any other person with respect to confidentiality.
- 8) This agreement would be in force till first five batches of students pass out. This will be reviewed before the start of the sixth academic batch. Any further extension or modification of the agreement can be done by mutual consent.
- 9) In case, one of the parties does not wish to continue the collaborations as stated in this agreement, a written notice of at least three months or until the end of semester would be required. However, it shall be binding on both the parties to protect the interest of students admitted to the programme under this agreement.

10) General

- a) This agreement benefits only the parties and their permitted assignees.
- b) Neither party is an agent of, partner of, employee of, or joint venturer with the other. Neither party has the right to bind the other party to any third party, or to the fulfillment of any condition, not expressed are provided for herein, or to any agreement or obligation, expressed or implied, between the other party and third parties.
- c) No extension, alteration, modifications or additions to this agreement, nor any waiver of any of the terms hereof, shall be valid unless made in writing and signed by the authorized representative of the respective parties.
- d) This agreement shall in no way become a hindrance for carrying out any activities not stated in the agreement by the parties in pursuance of their respective constitutions.
- e) Vel Tech will allot minimum of two seats in any Part time programme offered by Vel Tech for candidates to be sponsored by UCAL -JAP. These seats will be offered by Vel Tech and above said students shall be called to pay normal tuition fee. The students so recommended shall be exempted from the routine admission formalities provided such students do fulfill the minimum admission requirements by way of academic performance

11) Notice

Any notice, consent or other communication authorized or signed by authorized representative required to be given hereunder shall be deemed to be given (i) upon receipt if delivered by hand, if sent by overnight courier, fax or email, and (ii) upon receipt of a registered mail, airmail confirmation if sent through each party's national postal service and all notices shall be sent to the respective address of the parties as mentioned herein or at such other address as either party may notify to the other for use in the future.

12) Force Majeure

Neither party shall be held responsible for non-fulfillment of their respective obligations under this agreement due to the exigency of one or more of the force majeure events such as but not limited to the acts of God, war, flood, earthquake, strikes, lockouts, epidemics, riots & civil commotion, provided on



the occurrence and cessation of any such event the party affected thereby shall give a notice in writing to the other party within one month of such occurrence or cessation. If the force majeure conditions continue beyond six months, the parties shall jointly decide about the future course of action.

13) Arbitration

Any dispute or difference arising out of or in connection with this agreement shall be settled by the parties by mutual negotiations. Any unsettled dispute or differences shall be referred to the arbitration of a sole arbitrator, who shall be jointly appointed by the parties. The provisions of the Arbitration and Conciliation Act 1996 shall regulate the arbitration proceedings and the venue of the arbitration shall be Pune, India. The language of arbitration shall be English.

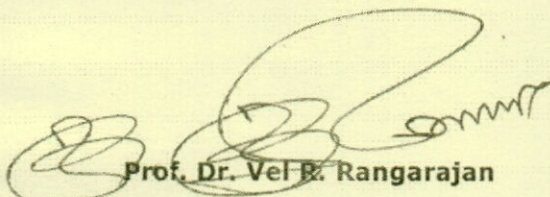
14) Assignment

- a) This agreement is personal to the parties hereto and may not be signed in whole or in the part by either party without the written consent of the other party.
- b) In witness whereof the parties have caused this agreement to be signed by their duly authorized representatives, the day and year first above written.

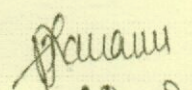
The parties herein has agreed and signed this document on this 8th day of April 2015 as under as per above clauses.

FOR AND ON BEHALF OF VELTECH

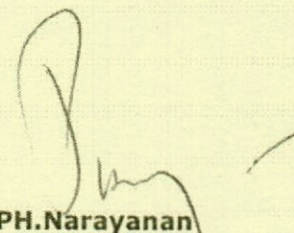
FOR AND ON BEHALF OF UCAL-JAP


Prof. Dr. Vel R. Rangarajan
Founder Chancellor & President

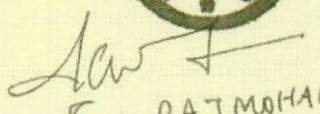
VELTECH
VEL TECH
Dr. RR & Dr. SR
TECHNICAL UNIVERSITY
No. 42, Avadi - Vel Tech Road,
Chennai - 600 062.
WITNESSES:

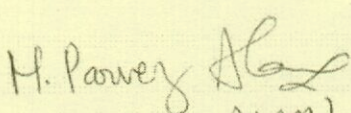
1. 
(Dr. P. SARASU)

2. 
(G. SIVAKUMAR)


Mr. PH. Narayanan
Chief Executive Officer
UCAL-JAP SYSTEMS LIMITED



1. 
[N. RAJ MOHAN]

2. 
(M. PARVEZ ALAM)

ADDENDUM -A

FEE STRUCTURE FOR THE ACADEMIC YEAR 2015-16

Semester	Particulars	Amount (Rs) *
I & II	Tuition fee	100000
	Examination Fees	7500
	Caution Deposit (refundable)	5000
	Other Fees	10500
	Total	123000
III & IV	Tuition fee	100000
	Examination Fees	7500
	Total	107500

* All figures mentioned above are in INR





Vel Tech

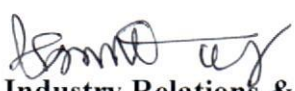
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

Date:
10th Feb 2022

MOU signed with UCAL JAP., Chennai,

MOU Number	MOU -183
Name of the Organization	M/s. UCAL JAP. Chennai
Date of signing of MoU	08.04.2015
Date of MoU Renewal (If any)	07.04.2020
Next renewal due on	5 Years – 07.04.2020
Objectives of MoU	To offer Joint Degree Programmes (M. Tech), To offer Internship/In Plant Training for UG students, Joint Research Projects, GL, Joint Seminar, Joint workshop

Academic Year	No. of Students	Course	Location of the internship	Duration	Project/IPT
2017 -18	4	M.Tech Aeronautical	UCAL Fuel Systems Limited, Plant – I, Maraimalai Nagar	2 years	Joint Degree
2017 -18	3	M.Tech Aeronautical	UCAL Fuel Systems Limited, Plant – I, Maraimalai Nagar	July 2017 – May 2018	Project
2016 -17	5	B.Tech ECE - 1 M.Tech Aero -4	UCAL Fuel Systems Limited, Plant – I, Maraimalai Nagar	16.01.2017 - 21.04.2017, 06.07.2016- 27.04.2017	Project
2015 -16	4	M.Tech Aeronautical	UCAL Fuel Systems Limited, Plant – I, Maraimalai Nagar	2 years	Joint Degree


Dean Industry Relations & TBI

Dr. P. Chandrakumar
Dean
Industry Relations & TBI

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)


MoU Coordinator

No.42, Avadi-Vel Tech Road, Vel Nagar,
Avadi, Chennai - 600 062, Tamil Nadu, India.
Landline : +91 44 2684 0262 / 2684 0605
Toll Free : 1800 212 7669
Email : registrar@veltech.edu.in
Website : www.veltech.edu.in



UCAL TECHNOLOGIES
(Aerospace & Defence Division of UCAL Fuel Systems Ltd)

To Whom It May Concern

This is to certify that **Mr. T. Muthukumar** (Reg.No: 16PEAE3002), served as intern from **July 2017 to May 2018** as part of his **2nd year M.Tech in Aeronautical Engineering (Specialisation in UAV)** course. During his period of stay with the company he was involved in various On-Field and Off-Field UAV related activities. During his tenure with the company he has performed good.

We wish him all the best for his future.

For UCAL TECHNOLOGIES,

A handwritten signature in black ink, appearing to read "Dr. M. K. Padmanabhan".

Dr. M. K. Padmanabhan,
HEAD - UCAL TECHNOLOGIES



UCAL TECHNOLOGIES
(Aerospace & Defence Division of UCAL Fuel Systems Ltd)

To Whom It May Concern

This is to certify that **Mrs. S. Karthika** (Reg.No: 16PEAE3001), served as intern from **July 2017 to May 2018** as part of her **2nd year M.Tech in Aeronautical Engineering (Specialisation in UAV)** course. During her period of stay with the company she was involved in various On-Field and Off-Field UAV related activities. During her tenure with the company she has performed satisfactory.

We wish her all the best for her future.

For UCAL TECHNOLOGIES,

A handwritten signature in black ink, appearing to read "Dr. M. K. Padmanabhan".

Dr. M. K. Padmanabhan,
HEAD - UCAL TECHNOLOGIES



UCAL TECHNOLOGIES
(Aerospace & Defence Division of UCAL Fuel Systems Ltd)

To Whom It May Concern

This is to certify that **Mr. S. Sanmugavel** (Reg.No: 16PEAE3003), served as intern from **July 2017 to May 2018** as part of his **2nd year M.Tech in Aeronautical Engineering (Specialisation in UAV)** course. During his period of stay with the company he was involved in various On-Field and Off-Field UAV related activities. During his tenure with the company he has performed good.

We wish him all the best for his future.

For UCAL TECHNOLOGIES,

A handwritten signature in dark ink, appearing to read "Dr. M. K. Padmanabhan".

Dr. M. K. Padmanabhan,
HEAD - UCAL TECHNOLOGIES

M.TECH AERONAUTICAL ENGINEERING(UAV)

2017-2019

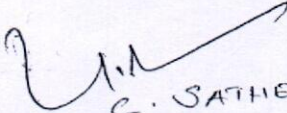
S.No	Vtp No.	Name	Reg.No.
1	2083	C SANDEEP SHEKAR	17PEAE3001
2	2174	GUMMADI SREESHMAN	17PEAE3003
3	2054	JEEJY THEOPHILUS J	17PEAE3004
4	2166	Vivek Jabaraj J	17PEAE3005



PROJECT COMPLETION CERTIFICATE

21 April 2017

This is to certify that **Ms. GOWTHAMI K**
(Reg.No.13UEEC0040) and **Ms. GUDURU VIJAYA**
LASKHMI (Reg.No.13UEEC0041) has successfully
completed their Final Year Project on "*Development of an*
Autopilot for Quadcopter in Precision Agriculture" under the
Domain "Unmanned Aerial Vehicle" in the time period from
16 Jan 2017 to 21 April 2017 with UCAL-JAP SYSTEMS
LIMITED.

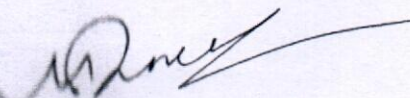

C. SATHEESH
UCAL - JAP Systems Limited
"RAHEJA TOWERS"
BETA WING, UNIT No.708
177, ANNA SALAI, CHENNAI-600 002.

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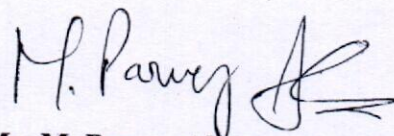
BONAFIDE CERTIFICATE

This to certify that the project report entitled
"Safe Landing of Autonomous Amphibious Unmanned Aerial Vehicle
using Autopilot System"

is the bonafide work of Pandya Garvit K. who carried out the project work under my supervision in partial fulfilment of the requirements for M-Tech Final year course during the academic year 2016-17. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on an earlier occasion of this or any other candidate.



Mr. Dinesh M.
COURSE COORDINATOR



Mr. M. Parvez Alam
CHIEF OPERATING OFFICER

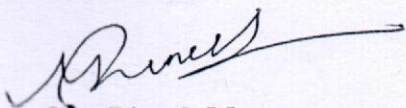
Date: 27/04/2017

Place: Chennai

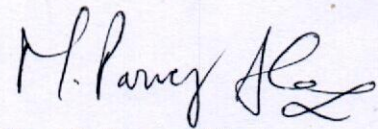
BONAFIDE CERTIFICATE

This to certify that the project report entitled
“Selection and Integration of Propulsion System for
Autonomous Amphibious Unmanned Aerial Vehicle”

*is the bonafide work of **Krishn das Patel** who carried out the project work under my supervision in partial fulfilment of the requirements for M-Tech Final year course during the academic year 2016-17. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on an earlier occasion of this or any other candidate.*



Mr. Dinesh M.
COURSE COORDINATOR



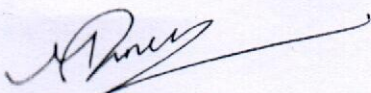
Mr. M. Parvez Alam
CHIEF OPERATING OFFICER

Date: 27/04/2017
Place: Chennai

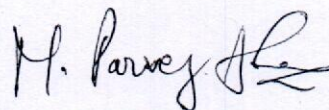
BONAFIDE CERTIFICATE

This to certify that the project report entitled
***“Design of Autonomous Amphibious Unmanned Aerial
Vehicle”***

is the bonafide work of Anushree Kirthika A. M. who carried out the project work under my supervision in partial fulfilment of the requirements for M-Tech Final year course during the academic year 2016-17. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on an earlier occasion of this or any other candidate.



**Mr. Dinesh M.
COURSE COORDINATOR**



**Mr. M. Parvez Alam
CHIEF OPERATING OFFICER**

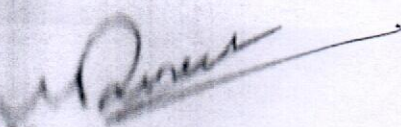
Date: 27/04/2017

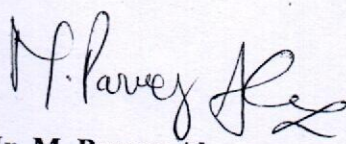
Place: Chennai

BONAFIDE CERTIFICATE

This to certify that the project report entitled
**"Development of Autonomous Amphibious Unmanned Aerial
Vehicle"**

*is the bonafide work of **Ajay Kumar Yadav** who carried out the project work under my supervision in partial fulfilment of the requirements for M-Tech Final year course during the academic year 2016-17. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on an earlier occasion of this or any other candidate.*


Mr. Dinesh M.
COURSE COORDINATOR


Mr. M. Parvez Alam
CHIEF OPERATING OFFICER

Date: 27/04/2017
Place: Chennai

VelTech University
BATCH 2015-16

S.NO	NAME	VTP NO	M.Tech Course Name
1	KRISHNDAS PATEL	1657	Aeronautical Engineering (Unmanned Aerial Vehicle)
2	ANUSHREE KRITHIKA	1656	Aeronautical Engineering (Unmanned Aerial Vehicle)
3	GARVIT PANDYA	1655	Aeronautical Engineering (Unmanned Aerial Vehicle)
4	AJAY KUMAR YADAV	1554	Aeronautical Engineering (Unmanned Aerial Vehicle)

STUDENT NAME admitted in the year 2017-18

S.No	ID No	NAME
1	17PGM066	JEEJY THEOPHILUS J
2	17PGM176	C SANDEEP SHEKAR
3	17PGM054	CHRISSIE FERNANDO P
4	17PGM288	VIVEK JABARAJ J

STUDENT NAME admitted in the year 2016-17

S.No	ID No	NAME
1	VTP 1730	T.MUTHU KUMAR
2	VTP 1768	ANIKETSHRIPAD TAMBAVEKON
3	VTP 1769	SANMUGAVEL
4	VTP 1850	KARTHIKA.S

STUDENT NAME admitted in the year 2015-16

Sl.No	ID No.	NAME
1	VTP 1656	ANUSHREE KIRTHIKA
2	VTP 1554	AJAY KUMAR YADAV
3	VTP 1655	PANDYA GARVIT KALPESH
4	VTP 1657	KRISHN DAS PATEL