

Memorandum of Understanding

for Institute-Industry Interaction

Between

Dr.V.Krishnamurthy Centre for Automotive Technology
Unit of UCAL FUEL SYSTEMS LIMITED
(Manufacturer of Carburetors, Pumps & Emission control devices for Automotive sector)

&

VEL TECH INSTITUTIONS
#42 & 60, Avadi - Vel Tech Road, Avadi, Chennai 600 062

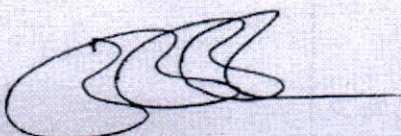
Represented by

Vel Tech Dr. RR & Dr. SR Technical University
(Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology)
Deemed University u/s 3 of UGC act 1956
#42 & 60, Avadi - Vel Tech Road, Chennai 600 062

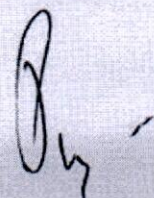
Vel Tech Multi Tech Dr. Rangarajan Dr. Sakunthala Engineering College
(Affiliated to Anna University, Chennai)
#42 & 60, Avadi - Vel Tech Road, Chennai 600 062

Vel Tech HighTech Dr. Rangarajan Dr. Sakunthala Engineering College
(Affiliated to Anna University, Chennai)
#42 & 60, Avadi - Vel Tech Road, Chennai 600 062

Vel Tech (Owned by RS Trust)
(Affiliated to Anna University, Chennai)
#42 & 60, Avadi - Vel Tech Road, Chennai 600 062



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providing customers with end - to - end solution from product designing to analysis, prototyping, testing and validation services. The company has one of the most advanced R & D centers in the industry. The R&D center, named, Dr.V. KRISHNAMURTHY CENTRE FOR AUTOMOTIVE TECHNOLOGY (KCAT) located in Ambattur, Chennai is recognized by the Department of Scientific and Industrial Research, Government of India. The Manufacturing facilities in 5 locations - 3 in Tamil Nadu, 1 in Pondicherry and one in Haryana are state of the art.

OBJECTIVE

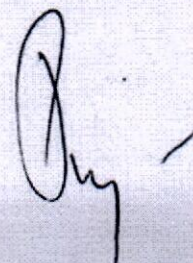
The objectives of this interaction are many and would evolve with time and the quality of inputs provided by both the parties. At the outset the following can be envisaged on the non-financial partnership mode. In case of financial implications, it will be mutually agreed on a case to case basis.

Hence UCAL & VEL TECH agree

- (i) **To offer Internship / Real Time Projects to Post Graduate Students:** For this, UCAL will identify Real Time projects in different streams for M.Tech, MBA and MCA. Number of students & the distribution among the various branches of engineering will be made available well in advance to VELTECH. The selection of these students will be completed at least two weeks prior to commencement of Projects at UCAL. Number of students would be decided on merit. UCAL as an organization do not encourage stipend but depending on the need we may consider reimbursement of expenses. In addition students would be given breakfast and lunch at plant location.
 - a. The Project work for the batch of students shall commence in November / December of every academic year. Students for the Projects will be selected by UCAL through a screening procedure in the campus of VELTECH.



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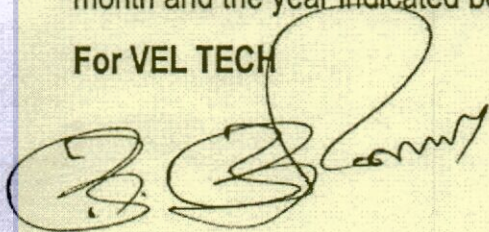


restrict UCAL nor UCAL shall restrict VELTECH from engaging in the same or similar activities with any third party. However, each Party shall inform the other Party of any other MoU executed by such Party with any other organization / institute in connection with any activity that is substantially the same as the activity proposed to be undertaken under this MoU; provided that neither Party shall be required by this provision to breach any contractual obligation to any other person with respect to confidentiality.

Either party may terminate the agreement by written notification signed by the appropriate official of the Institution initiating the notice. Such notice must be received by the other party six months prior to the effective termination date. However, obligations and commitments already contracted for and involving their parties shall be honoured and continued by both parties until such commitments are completed.

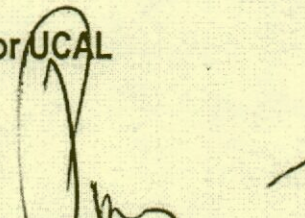
In witness whereof, the parties hereto caused this instrument to be executed as of the day, month and the year indicated below:

For VEL TECH



Dr.R.Rangarajan
Founder President

For UCAL



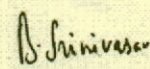
Mr.P.H.Narayanan
Chief Executive Officer

Witness 1


Signature

Date:

Witness 2


Signature

Date: 7 November 2013



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 FUEL SYSTEMS LTD., Chennai,

MOU Number	MOU -156
Name of the Organization	M/s. UCAL FUEL SYSTEMS LTD. Chennai
Date of signing of MoU	07.11.2013
Date of MoU Renewal (If any)	NIL
Next renewal due on	Valid for Lifetime
Objectives of MoU	To offer project internship to Post Graduate Students (M.Tech, MBA, MCA) To jointly carry out Research & Development projects

Academic Year	No. of Students	Course	Location of the internship	Duration	Project/IPT
2020 -21	06	AERO	UCAL Fuel Systems Limited, Plant - I, Maraimalai Nagar	20.02.2021 - 07.06.2021	Project
2019 -20	04	AERO	UCAL Fuel Systems Limited, Plant - I, Maraimalai Nagar	05.01.2020 - 20.03.2020	Project
2019 -20	07	AERO	UCAL Fuel Systems Limited, Plant - I, Maraimalai Nagar	10.07.2019 - 14.07.2019	In Plant Training
2019 -20	02	MECH	UCAL Fuel Systems Limited, Plant - I, Maraimalai Nagar	10.07.2019 - 14.07.2019	In Plant Training
2018-19	01	AERO	UCAL Fuel Systems Limited, Plant - I, Maraimalai Nagar	05.07.2018 - 05.05.2019	Project
2017 -18	80	FME	UCAL Fuel Systems Limited, Plant - I, Maraimalai Nagar	21.06.2017	Industrial Visit


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



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

23rd July 2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Surabattula Bablu (Reg. no: 17UEAE0086)**, a Final year student of **B.Tech in Aeronautical Engineering, Vel Tech Rangarajan Dr Sagunthala R&D Institute of Science and Technology, Chennai** has successfully completed his Project Work titled "**UAV Based Crop Health Monitoring Using Advanced Sensors**" in our organisation from 20th February 2021 to 7th June 2021.

For UCAL Technologies,

A handwritten signature in black ink, appearing to read "M.K. Padmanabhan", written over a horizontal line.

M.K. Padmanabhan
CEO



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

23rd July 2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Gundikayala Roopchand** (Reg. no: **17UEAE0019**), a Final year student of **B.Tech in Aeronautical Engineering, Vel Tech Rangarajan Dr Sagunthala R&D Institute of Science and Technology, Chennai** has successfully completed his Project Work titled "*Experimental Study Of Hybrid Power System For Unmanned Aerial Vehicle*" in our organisation from 20th February 2021 to 7th June 2021.

For UCAL Technologies,

A handwritten signature in black ink, appearing to read "M.K. Padmanabhan", with a horizontal line underneath.

M.K. Padmanabhan
CEO



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

23rd July 2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Balasubramaniyan V (Reg. no: 17UEAE0009)**, a Final year student of **B.Tech in Aeronautical Engineering, Vel Tech Rangarajan Dr Sagunthala R&D Institute of Science and Technology, Chennai** has successfully completed his Project Work titled "**Experimental Study Of Hybrid Power System For Unmanned Aerial Vehicle**" in our organisation from 20th February 2021 to 7th June 2021.

For UCAL Technologies,

M.K. Padmanabhan
CEO



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

23rd July 2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Kaila Suresh Kumar (Reg. no: 17UEAE0028)**, a Final year student of **B.Tech in Aeronautical Engineering, Vel Tech Rangarajan Dr Sagunthala R&D Institute of Science and Technology, Chennai** has successfully completed his Project Work titled **"Design And Analysis Of VTOL Fixed Wing UAV For Long Endurance Applications"** in our organisation from 20th February 2021 to 7th June 2021.

For UCAL Technologies,

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M.K. Padmanabhan
CEO



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

23rd July 2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Kollipara Aakash (Reg. no: 17UEAE0035)**, a Final year student of **B.Tech in Aeronautical Engineering**, Vel Tech Rangarajan Dr Sagunthala R&D Institute of Science and Technology, Chennai has successfully completed his Project Work titled "**Experimental Study Of Hybrid Power System For Unmanned Aerial Vehicle**" in our organisation from 20th February 2021 to 7th June 2021.

For UCAL Technologies,

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M.K. Padmanabhan
CEO



UCAL TECHNOLOGIES
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23rd July 2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Chalicheemala Likhith (Reg. no: 17UEAE0011)**,
a Final year student of **B.Tech in Aeronautical Engineering, Vel Tech**
Rangarajan Dr Sagunthala R&D Institute of Science and Technology,
Chennai has successfully completed his Project Work titled "**Design And**
Analysis Of VTOL Fixed Wing UAV For Long Endurance Applications"
in our organisation from 20th February 2021 to 7th June 2021.

For UCAL Technologies,

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M.K. Padmanabhan
CEO



UCAL TECHNOLOGIES

(Aerospace & Defence Division of UCAL Fuel Systems Ltd)

To Whom It May Concern

This is to certify that **Mr. I. Venkata Sai Manikanta** (Reg. No: 16UEAE0014), student of **B.Tech in Aeronautical Engineering, Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology, Chennai** served as an intern in our organisation from **10/10/2019 to 20/03/2020**. He was assigned the Project titles as, **"Design and Development of Spraying System for Agriculture Uav's"**, successfully they completed the work, and during his period of stay with the company he was involved in various Aerospace related activities. During his tenure with the company he has performed well.

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", written over a horizontal line.

Dr. M.K Padmanabhan

Head

AA4 Auto Ancillary SEZ Unit, Anjur Village, 6th Avenue, Mahindra World City,
Chengalpattu - 603002, India
Tel: (91-44) 27460033



UCAL TECHNOLOGIES

(Aerospace & Defence Division of UCAL Fuel Systems Ltd)

To Whom It May Concern

This is to certify that **Mr. Bavisetti Jnanendra Sai Deep** (Reg. No: 16UEAE0077), student of **B.Tech in Aeronautical Engineering, Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology, Chennai** served as an intern in our organisation from **10/10/2019 to 20/03/2020**. He was assigned the Project titles as, **"Design and Development of Spraying System for Agriculture Uav's"**, successfully they completed the work, and during his period of stay with the company he was involved in various Aerospace related activities. During his tenure with the company he has performed well.

We wish him all the best for his future.

For UCAL TECHNOLOGIES,

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Dr. M.K Padmanabhan

Head

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Tel: (91-44) 27460033



UCAL TECHNOLOGIES

(Aerospace & Defence Division of UCAL Fuel Systems Ltd)

To Whom It May Concern

This is to certify that **Mr. Shaik Masthan Basha** (Reg. No: 16UEAE0055), student of **B.Tech in Aeronautical Engineering, Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology, Chennai** served as an intern in our organisation from **05/01/2020 to 20/03/2020**. He was assigned the Project titles as, **"Crop Health Monitoring for Precision Agricultural Using Advanced Technology"**, successfully they completed the work, and during his period of stay with the company he was involved in various Aerospace related activities. During his tenure with the company he has performed well.

We wish him all the best for his future.

For UCAL TECHNOLOGIES,

Dr. M.K Padmanabhan

Head

AA4 Auto Ancillary SEZ Unit, Anjur Village, 6th Avenue, Mahindra World City,
Chengalpattu - 603002, India
Tel: (91-44) 27460033



UCAL TECHNOLOGIES

(Aerospace & Defence Division of UCAL Fuel Systems Ltd)

To Whom It May Concern

This is to certify that **Mr. Varada Keerthi Sankar** (Reg. No: 16UEAE0064), student of **B.Tech in Aeronautical Engineering, Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology, Chennai** served as an intern in our organisation from **05/01/2020 to 20/03/2020**. He was assigned the Project titles as, **"Crop Health Monitoring for Precision Agricultural Using Advanced Technology"**, successfully they completed the work, and during his period of stay with the company he was involved in various Aerospace related activities. During his tenure with the company he has performed well.

We wish him all the best for his future.

For UCAL TECHNOLOGIES,

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Dr. M.K Padmanabhan
Head

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Tel: (91-44) 27460033



UCAL TECHNOLOGIES

(Aerospace & Defence Division of UCAL Fuel Systems Ltd)

To Whom It May Concern

This is to certify that **Mr. V.A. Muhammad Adnan** (Reg. No: 17UEAE0052), student of **B.Tech in Aeronautical Engineering, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai** has undergone implant training from **10th June 2019 to 14th June 19** in our organization. During his tenure with the company he has performed well.

For UCAL TECHNOLOGIES,

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. M. Pranay** (Reg. No: 17UEAE0049), student of **B.Tech in Aeronautical Engineering, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai** has undergone implant training from **10th June 2019 to 14th June 19** in our organization. During his tenure with the company he has performed well.

For UCAL TECHNOLOGIES,

A handwritten signature in black ink, appearing to read "Dr. M. K. Padmanabhan", written over a horizontal line.

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. M. Balaji Naik** (Reg. No: 17UEAE0050), student of **B.Tech** in **Aeronautical Engineering**, **Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai** has undergone implant training from **10th June 2019 to 14th June 19** in our organization. During his tenure with the company he has performed well.

For UCAL TECHNOLOGIES,

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. K. Tharun Sai** (Reg. No: 17UEAE0034), student of **B.Tech in Aeronautical Engineering, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai** has undergone implant training from **10th June 2019 to 14th June 19** in our organization. During his tenure with the company he has performed well.

For UCAL TECHNOLOGIES,

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. K. Suresh Kumar** (Reg. No: 17UEAE0028), student of **B.Tech in Aeronautical Engineering, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai** has undergone implant training from **10th June 2019 to 14th June 19** in our organization. During his tenure with the company he has performed well.

For UCAL TECHNOLOGIES,

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. B. Anil Kumar** (Reg. No: 17UEAE0010), student of **B.Tech in Aeronautical Engineering, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai** has undergone implant training from **10th June 2019 to 14th June 19** in our organization. During his tenure with the company he has performed well.

For UCAL TECHNOLOGIES,

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. L. Nemani Kumar** (Reg. No: 17UEAE0041), student of **B.Tech in Aeronautical Engineering, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai** has undergone implant training from **10th June 2019 to 14th June 19** in our organization. During his tenure with the company he has performed well.

For UCAL TECHNOLOGIES,

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

AA4 Auto Ancillary SEZ Unit, Anjur Village, 6th Avenue, Mahindra World City, Chengalpattu - 603002, India
Tel: (91-44) 27460033

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UCAL TECHNOLOGIES

(Aerospace & Defence Division of UCAL Fuel Systems Ltd)

To Whom It May Concern

This is to certify that **Mr. V. Gopala Krishna** (Reg. No: 17UEME0266), student of **B.Tech in Mechanical Engineering, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai** has undergone implant training from **10th June 2019 to 14th June 19** in our organization. During his tenure with the company he has performed well.

For UCAL TECHNOLOGIES,

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. R. Sai Uday Kiran** (Reg. No: 17UEME0204), student of **B.Tech in Mechanical Engineering, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai** has undergone implant training from **10th June 2019 to 14th June 19** in our organization. During his tenure with the company he has performed well.

For UCAL TECHNOLOGIES,

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. Venna Sainadha Reddy** (Reg.No: 15UEAE0033), student of **B.Tech in Aeronautical Engineering, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology** served as an intern from **July 2018 to May 2019** as part of his 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 well.

We wish him all the best for his future.

For UCAL TECHNOLOGIES,

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

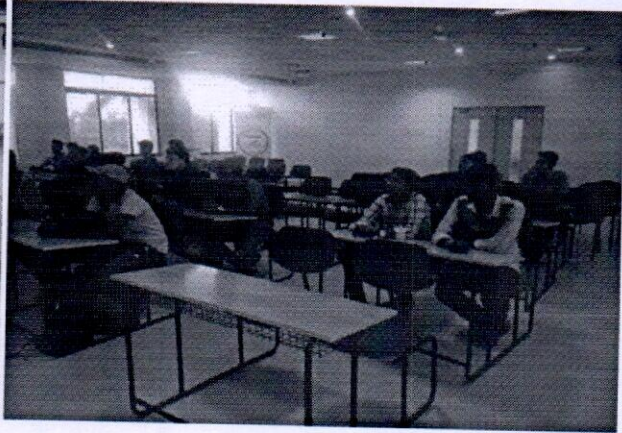


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Tel: (91-44) 27460033

Veltech Dr.RR & Dr.SR University

(Estd. u/s 3 of UGC Act, 1956)

Industry Visit to UCAL Fuel System – 21.06.2017 SOMC F



Student's Feedback

1. I was learned in this trip how to function carburetor, oil pumping in cars and manufacturing.
2. We have known about the industry which they produce various parts for various companies.
3. I came to know that how a carburetor and vacuum pump works in the vehicles.
4. We were explained only theoretically but we prefer to be practically, about the basic parts of automobile - combustor oil pump, vacuum pump.