



**MEMORANDUM OF UNDERSTANDING
BETWEEN
VEL TECH DR. RR & DR. SR TECHNICAL UNIVERSITY
(VEL TECH RANGARAJAN DR. SAGUNTHALA R&D INSTITUTE OF SCIENCE &
TECHNOLOGY), INDIA.
AND
FACHHOCHSCHULE DÜSSELDORF –
UNIVERSITY OF APPLIED SCIENCES; GERMANY**

1.0 Preamble

Vel Tech Dr. RR & Dr. SR Technical University (Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology) (herein after referred to as **Vel Tech**) is a University u/s 3 of UGC Act, 1956, India, located at #42, Avadi-Vel Tech Road, Avadi, Chennai, 600062, Tamilnadu, India.

Vel Tech is a Technical University offering Undergraduate and Postgraduate (Masters) courses in various disciplines of Engineering and in Business Administration and M Phil. and PhD programs. The University Departments have highly qualified Faculty and well equipped Laboratories having potential for carrying out high value R&D in various disciplines. Vel Tech has also entered into MoUs with Universities, R&D Organisations and Industries worldwide to foster growth in academic and R&D domains.

Fachhochschule Düsseldorf – University of Applied Sciences, Universitätsstr. 23.31/32, 40225 Düsseldorf, Germany (herein after referred to as **FH D**) offers undergraduate and postgraduate courses in seven departments: architecture, design, electrical engineering, mechanical and process engineering, media technology, social and cultural studies and business studies. In the field of education and R&D, FH D enhances international cooperation and fosters international networking. More than 140 agreements with universities worldwide witness of the importance the FH D attaches to internationalization.

A large, stylized handwritten signature in blue ink, consisting of a series of loops and a long horizontal stroke extending to the right.

A small, stylized handwritten signature in blue ink, consisting of a few loops and a short horizontal stroke.

2.0 Purpose of Cooperation

Considering the common areas of interest at Vel Tech and FH D in academic and R&D domains, it is considered beneficial to have collaboration programs. Accordingly this Memorandum of Understanding has been entered into to facilitate further interactions between the two parties to achieve the objectives.

3.0 Areas of Cooperation

It is hereby agreed upon to pursue further for collaboration in the following areas:

- Student Exchange at Undergraduate and Masters level
- Semester Abroad Program
- Faculty Exchange
- Joint R&D projects under intergovernmental programs
- Conferences & Seminars
- Technical Exchanges & Curriculum Development.

4.0 Mode of Implementation

For each area of cooperation, after further interactions, separate detailed Agreements shall be signed, which will become Annexures to the Memorandum of Understanding. The individual Agreements will, inter alia include all administrative, procedural, financial and legal issues. In the case of Joint R&D projects, the Agreements will also cover issues related to Intellectual Property and Patent Rights.

The areas of cooperation will be prioritized depending on the mutual interest and needs of both the parties.

5.0 Validity

The Memorandum of Understanding comes into effect when both the parties have signed and is valid for a period of three years from the date of signing. It will be automatically extended for another three years, if no termination notice has been issued by either party six months before the expiry date. However even in case of such termination, the on-going programs will remain in force till their completion.

For VEL TECH

For FH D

3. frost
(.....)
Date: 15th Oct 2013

SEAL

Fachhochschule Düsseldorf

Die Präsidentin
Universitätsstraße, Gebäude 23.31/32
D - 40225 DÜSSELDORF
Telefon 0211 / 811 - 33 50 / 33 51
Telefax 0211 / 811 - 49 16
E-Mail: praesidium@fh-duesseldorf.de

For VEL TECH

(.....)
Date: 04th Nov 2013

SEAL

Dr. R. Rangarajan
Founder-President
Vel Tech Rangarajan Dr. Sagunthala R&D
Institute of Science and Technology,
(Vel Tech Dr.RR & Dr.SR Technical University)
42 & 60, Avadi-Vel Tech Road,
Chennai - 600 062.



Vel Tech

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

**University of Applied Sciences Düsseldorf (Hochschule Düsseldorf,
Dept of Mechanical & Process Engineering, Germany**

Name of the Research Institute/University/ Organization	Country	Duration of the Agreement	Academic Year	Date of Signing	Date of Expiry
University of Applied Sciences Düsseldorf (Hochschule Düsseldorf) - Dept of Mechanical & Process Engineering	Germany	10 Years	2014-15	21.04.2015	20.04.2020 + Auto Renewal for another 5 yrs

**Actual Activities with Hochschule Düsseldorf,
Dept of Mechanical & Process Engineering, Germany**

A.Y. 2017-18	Student Mobility (Outgoing) - 2
A.Y. 2018-19	Vel Tech Delegates visited HSD - 2
A.Y. 2019-20	Student Mobility (Outgoing) - 1


MoU Coordinator



(APPENDIX A TO MOU)

STUDENT EXCHANGE AGREEMENT

between

Vel Tech Dr. RR. & Dr. SR Technical University
(Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science & Technology),
India

and

Fachhochschule Düsseldorf – University of Applied Sciences,
Germany

In the interest of expanding educational opportunities and furthering international understanding, Vel Tech Dr. RR. & Dr. SR Technical University (Vel Tech) and the Fachhochschule Düsseldorf – University of Applied Sciences agree to facilitate the educational exchange of students in the field of Mechanical and Process Engineering.

GENERAL REGULATIONS, ELIGIBILITY AND ENROLMENT

1. Each institution may send up to 2 graduate or undergraduate (Masters and Bachelor) students each year. Both institutions will strive for a balance regarding the number of students (counted in semesters) taking part in the exchange. After a period of five years, this balance will be evaluated; imbalances after the fifth year will be resolved by mutual agreement between the two institutions.
2. The home institution nominates the candidates for the exchange programme to the host institution well in advance before the start of the academic programme. It is understood that both institutions will strive to designate only well-qualified individuals for participation in the programme and that academic backgrounds will be provided to the host institution. Students must have completed at least four semesters of studies for Undergraduate students and at least two semesters for Masters students or equivalent at the home institution. The host institution reserves the right to determine the final admission eligibility of each student nominated by the home institution.
3. Exchange students must satisfy the language proficiency requirements for the chosen course or programme or take appropriate language instruction prior to the beginning of their academic programme, as determined by the regulations of the host institution.
4. The period of exchange will be for one or two semesters.

Students from Vel Tech coming to FH D for one semester will attend lectures and courses at FH D or participate in project work at FH D or pass an internship in an industrial enterprise. Students from Vel Tech coming to FH D for two semesters

will attend lectures and courses at FH D in one semester (first or second) and participate in project work at FH D or pass an internship in an industrial enterprise in the other (first or second). Project work and internship may be organised in the laboratories at FH D or in an industrial enterprise approved by the FH D. Project work and internship are subject to availability. FH D will provide support to Vel Tech students for searching placements and applying for them in industrial enterprises.

Students from FH D coming to Vel Tech for one semester will attend lectures and courses at Vel Tech or participate in project work or pass an internship in an industrial enterprise. Students from FH D coming to Vel Tech for two semesters will attend lectures and courses at Vel Tech in one semester (first or second) and participate in project work or pass an internship in an industrial enterprise in the other (first or second). Project and internship may be organised in the laboratories at Vel Tech or in an industrial enterprise approved by Vel Tech. Project and internship are subject to availability. Vel Tech will provide support to FH D students for searching placements and applying for them in industrial enterprises.

5. Students will be enrolled at the host university as "non-degree students" and will be subject to the regulations and the policies of the host university.
6. Any academic credit earned at the host institution may be transferred to the home university in accordance with the procedures determined by the latter.
7. Both institutions will appoint coordinators in their respective offices who will execute the agreement and act as contact persons for the exchange students.

FINANCIAL ARRANGEMENTS

8. Exchange students shall be exempt from paying tuition fees at the host institution. A registration fee might still be applicable, according to the local and national regulations. At the FH D exchange students have to pay a semester contribution which includes amongst others a semester ticket for public transportation in the greater Düsseldorf area and German federal state of North Rhine-Westphalia as well as accident insurance on FH D grounds.
At Vel Tech the students are required to pay registration fee and a refundable caution deposit against damages, for use of library and facilities and for accommodation if provided in the university hostels.
9. Host universities will use reasonable endeavours to assist exchange students in finding accommodation. Exchange students will be individually responsible for their living expenses, room and board, travel and visa costs, health insurance, books and other personal expenses.

RESOURCES AND REGULATIONS AT THE HOST INSTITUTION

10. All student services and facilities of the host institution will be made available to exchange students.

11. The host institution will assist exchange students in all practical and academic matters, especially concerning accommodation and academic integration.
12. Upon completion of their exchange period at the host university, exchange students return to the home institution. Any extension of stay must be approved by both universities. Non-degree exchange students who want to apply for degree status must reapply to the host institution by submitting a new application according to the procedure applicable at the host institution.
13. Exchange students are subject to the rules and regulations of the host institution. The host institution reserves the right to dismiss an exchange student at any time due to academic or personal misconduct. The dismissal of a student shall not abrogate the agreement regarding other participants.

DURATION, AMENDMENT AND TERMINATION OF THIS AGREEMENT

14. This agreement comes into effect on the date of the last signature for an initial period of five years and can be renewed for another five-year period after the previous contract has expired. Extension of the contract is an active step taken six months before the previous contract expires and subject to prior existence of actual cooperative activities in the previous three-year period of contract. If the contract is not actively renewed, it expires automatically.
15. This agreement may be amended based upon mutual consent. Amendments need to be agreed upon in writing to become effective.
16. Either party may terminate this agreement by written notification at least six months in advance of the effective date of termination. Any exchanges of students taking place at the time of termination will not be affected; exchange students who already stay at the host institution will be allowed to complete the exchange programme.
17. This agreement is to be executed in English in duplicate, both copies being considered original.

For Vel Tech Dr. RR. & Dr. SR Technical
University

For the Fachhochschule Düsseldorf –
University of Applied Sciences

Place/Date:

Place/Date: *Düsseldorf, den 1.4.2015*
B. Grass

Prof. Dr. R. Rangarajan
Founder President

Prof. Dr. Brigitte Grass
President

Fachhochschule Düsseldorf
Die Präsidentin
Universitätsstraße, Gebäude 23.31/32
40225 DÜSSELDORF

Hochschule Düsseldorf, Münsterstraße 156, 40476 Düsseldorf

Der Vizepräsident für Studium, Lehre und In- ternationales

Vice-President for
Academic, Student and
International Affairs

International Office

Lea Pöter
Student Exchange Coordinator

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40476 Düsseldorf
Germany

T +49 211 4351-8126
incoming@hs-duesseldorf.de
www.hs-duesseldorf.de

25.06.2018

Confirmation

This is to Certify that the project report titled "Developing a Reliable Autonomous Navigation for a Mobile Robot Using the Robot Operating System (ROS)" "is the bonafide record of the work carried out by Ms. Lakshmi Chellappan- (VtU No: VTU 5285) of Department of Electrical and Electronics Engineering, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai, India under the guidance of Prof. Haehnel, at HS Dusseldorf in partial fulfilment of the requirement of the award of Bachelor of Technology [B. Tech] Degree in Electrical and Electronics Engineering by Vel Tech. The Model developed by the student is retained at HS D.

Mit freundlichen Grüßen / Kind regards,

i.A. / p.p.


Hochschule Düsseldorf
University of Applied Sciences
International Office
Münsterstr. 156
40476 Düsseldorf
Germany
www.hs-duesseldorf.de

Lea Pöter

Hochschule Düsseldorf, Münsterstraße 156, 40476 Düsseldorf

**Der Vizepräsident für
Studium, Lehre und In-
ternationales**

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25.06.2018

Confirmation

This is to certify that the project report titled "Developing a Reliable Autonomous Navigation for a Mobile Robot Using the Robot Operating System (ROS)" is the bonafide record of the work carried out by Mr. Venkatesh S - (VtU No: VTU 5304) of Department of Electrical and Electronics Engineering, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai, India under the guidance of Prof Haehnel at HS Dusseldorf in partial fulfilment of the requirement of the award of Bachelor of Technology [B. Tech] Degree in Electrical and Electronics Engineering by Vel Tech. The Model developed by the student is retained at HS D.

Mit freundlichen Grüßen / Kind regards,

i.A. / p.p.



Lea Pöter

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Vel Tech Delegates Visited :

1. Mr. K.V.D. Kishore Kumar (Vice President)
2. Dr. S. Sivaperumal (Director – International Relations)

University & Country : University of Applied Sciences Düsseldorf
(Hochschule Düsseldorf), Germany

Date Visited : 03.04.2019

Purpose: Mr. K.V.D. Kishore Kumar, Vice-President and Dr. S. Sivaperumal, Director for International Relations visited Universities in France, Belgium, Germany and Czech Republic towards exploring the possible academic & research cooperation and strengthening the existing relationships. As part of the visit, the delegation visited 10 universities during 01st to 12th April, 2019. A total of 4 MoU's have been already signed.





Hochschule Düsseldorf
University of Applied Sciences

Date: 10 June, 2020.

PROJECT CERTIFICATE

This is to certify that **Mr. PRAVEEN REDDY BOBBALI** , (ID No. 842283/ Passport No: **T6242330**) born 13.06.1998, is an exchange student from Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai, India had completed his internship in the academic year 2019/20 from 27.01.2020 to 30.05.2020 under my esteemed guidance in the Department of Mechanical and Process Engineering at Hochschule Düsseldorf-University of Applied Sciences. He is a part of research project titled “**Simulation of a Double Blade Mower with Oscillating Mechanism**”. During the period of the internship program, he was punctual, hardworking, inquisitive and of good behavior.

Prof. Dr. Andreas Jahr,

Board of FMD auto- Product Development and Innovation,

Hochschule Düsseldorf-University of Applied Sciences, Germany.

Email: andreas.jahr@hs-duesseldorf.de

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