MoU NO : 167

VEL TECH RANGARAJAN Dr.SAGUNTHALA R&D INSTITUTE OF SCIENCE AND TECHNOLOGY
(VEL TECH Dr.RR & Dr.SR TECHNICAL UNIVERSITY)
University u/s 3 of UGC Act, 1956
#42, Avadi-Vel Tech Road, Avadi, Chennai - 600 062, Tamil Nadu, INDIA.

TAMKANG UNIVERSITY

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

And
Department of Mechanical and Electromechanical Engineering,
Tamkang University, Tamsui, New Taipei City, Taiwan

The objective of the present Agreement is to develop academic cooperation between Vel Tech Dr. RR & Dr. SR Technical University (herein referred to as **Vel Tech**) and Department of Mechanical and Electromechanical Engineering, Tamkang University (herein referred to as **ME, TKU**).
Vel Tech and ME, TKU are at present willing to establish academic links and contacts in the area of "Exchange of Students" between the two Institutes. The program may be extended to other departments later by mutual agreement.

1.0 STUDENT EXCHANGE PROGRAM

1.1 Understanding of terms

"**Exchange Period**" is defined as either one academic semester or equivalent period in which the student is registered.

"**Exchange Student**" is one who participates in the Exchange Program between the two Institutions and is required to pay tuition fees at the Home Institution only.

The "**Home Institution**" is the Institution in which the student is originally enrolled. The "**Host Institution**" is the Institution to which the exchange student is attached for the duration of Exchange Period.

1.2 General terms and conditions

1.2.1 The Student Exchange Program is found on the basis of mutual reciprocity, with the intention of achieving a maximum of 4 (four) Exchange Students each way for every year. The duration of Exchange (Exchange Period) for Undergraduate students will be 4 to 6 months and for Master students will be 6 to 9 months. However, before each Exchange, the Period will be mutually agreed upon between Vel Tech and ME, TKU. Proposals for Exchange Students must

be made in advance and agreed upon with sufficient notice to both parties. However there is no obligation on either Institution to nominate students for the program.

1.2.2 The Home Institution will be responsible for screening and selecting students for this Program, subject to acceptance by the Host Institution. The Host Institution may be at its discretion reject any applicant whose academic or other qualifications for participation in the Program are not found to be appropriate.

1.2.3Participating Exchange Students will continue as candidates for degrees at their Home Institution and will not be candidates for degrees at the Host Institution.

1.2.4 Exchange Students will be subjected to the academic rules and discipline of the Host Institution. Where applicable, the Host Institution will periodically inform the Home Institution of the academic progress of the participants in the program.

1.2.5 Round trip international travels, cost of room and board and all personal costs in the host country are the personal responsibility of each student. The Host Institution will make reasonable efforts to assist the Exchange Student to obtain housing and with other matters of hospitality, but is not obliged to provide housing or financial assistance of any kind whatsoever. However Host Institution will render advice on possible scholarship/financial support options available for such programs.

1.2.6 Exchange Students shall be responsible for obtaining their own visas and completing the required immigration formalities, and for obtaining the travel and other related documents needed to pursue studies at the Host Institution. However the Host Institution shall provide necessary support documentation like invitation/admission letters for obtaining visas.

1.2.7 If the Exchange Students voluntarily withdraws before the end of his/her program of study, it will be considered a completed exchange.

1.2.8No monetary consideration will be exchanged between the two institutions. The Host Institution will waive all application, academic and administration fees normally required from the international students.

1.2.9 The following modes of operation are possible under this Agreement:

[a] An Exchange student pursuing his/her Undergraduate courses from the Home Institution will undertake to do the semester course work or do his/her Major Project at the Host Institution during the final year of the Undergraduate Program.

[b] An Exchange Student pursuing his/her Masters from the Home Institution will undertake to do his/her Major Thesis at the Host Institution.

[c] The credits which are obtained in the Host Institution are transferred to Home Institution to complete the total required credits for the degree.

[d] The language of instruction on both sides will be English.

1.3 Student enrollment and assessment

1.3.1 Exchange Students will be permitted to enroll in any course of the Program offered by the Host Institution, subject to admission requirements, time table and capacity constraints of the Host Institution. The students of Vel Tech will be from Aeronautical or Mechanical Engineering disciplines, and the students of TKU will be from Department of Mechanical and Electromechanical Engineering.

1.3.2 Each Exchange Student will be required to fulfill the requirements of the proposed academic program that has been agreed in advance by the two institutions.

1.3.3 Exchange Students will obtain credits for the courses and experience in accordance with the regulations of the Home Institution. Official transcripts for each student will be sent directly to the Home Institution at the end of the program.

2.0 FACULTY EXCHANGE PROGRAM

2.1 Exchange of Faculty.

The two universities may nominate their faculty members to participate in an exchange for the purpose of study or lecturing in the other university on a reciprocal basis. The participation is subject to approval by the host university. The period of exchange will normally be one or two semesters. The host university will provide a university affiliation, library and research facilities, and other assistance as far as possible. The host university will assist the visiting academic staff in locating suitable accommodation.

2.2 Visiting Faculty.

In addition to the reciprocal exchanges, either university may invite faculty members of the other university for the purpose of lecturing or consultation for a specified period of time, subject to the approval of the home university. In such cases the inviting university makes appropriate funding arrangements agreed to in advance.

2.3 Visiting Research Fellows.

Either university may nominate one or more of its faculty to visit the other university for the purpose of advanced study or research, subject to the approval of the host university. The host university will provide institutional courtesies, library and research facilities and an appropriate affiliation.

3.0 COOPERATIVE RESEARCH

Co-operative research is to be encouraged as individual scholars or departments establish contact and develop mutual interests. The cost and conditions of such agreements will be negotiated individually.

4.0 EXCHANGE OF ACADEMIC MATERIALS

Each university shall encourage exchange of all relevant materials, such as those relating to the library, on a regular basis. The libraries can also exchange reference materials for research purposes.

5.0 INSURANCE

All Exchange Students will be required to purchase adequate health (including hospitalization) insurance and accident insurance as determined by the Host Institution during the period of study and the journey back and forth between the Home and Host Institutions.

6.0 TERMS, TERMINATION AND MODIFICATION

This Agreement shall be valid for a period of 5 years from the date of its signature, and shall continue in force unless terminated by either party in accordance with the following clause: Either party shall be entitled at any time and at its absolute discretion to terminate the Agreement by giving written notice six months beforehand to other party. Such termination shall not affect exchange program on hand at the time of the termination.

This Agreement maybe modified by mutual consent in writing and signed by both the two parties.
The addresses for correspondence under this Agreement are:

For **Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science & Technology:**
(Vel Tech Dr. RR & Dr. SR Technical University)
Prof. Dr. R. Rangarajan, Founder - President,
No. 42 & 60, Avadi-Vel Tech Road, Avadi, Chennai, 600 062, India
veltech@vsnl.com

For **Department of Mechanical and Electromechanical Engineering, Tamkang University:**
Prof. Dr. Lung-Jieh Yang
No. 151, Ying-Zhuan Road, Tamsui, New Taipei City, 25137, Taiwan
http://www.me.tku.edu.tw; ljyang@mail.tku.edu.tw

7.0 Jurisdiction

This Agreement shall be governed by the laws of the country where the cause of action arises and the laws of such country will be applicable and the Agreement is subject to the jurisdiction of the courts of the respective countries.

In witness where of, the parties here to caused this instrument to be executed on this day 8th of Sept 2014.

For Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science & Technology (Vel Tech Dr. RR & Dr. SR Technical University) Dr. R. Rangarajan Founder, President Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science & Technology, (Vel Tech Dr.RR & Dr.SR Technical University # 42 & 60, Avadi-Vel Tech Road, Avadi, Chennai-600 062. Prof. Dr. R. Rangarajan Founder - President Dr. P. Sarasu Director Research & Development	For Tamkang University Flora C. I. Chang Prof. Dr. Flora Chia-I Chang President For Dept. of Mechanical and Electromechanical Engineering, Tamkang University Lung-Jieh Yang Prof. Dr. Lung-Jieh Yang Chairman

A.Y. 2018-19	Student Mobility (Outgoing - Project Work) - 2 Student Mobility (Outgoing - Research Internship) - 7 Student Mobility (Incoming - Mobility Program) - 4 Student Mobility (Incoming - Course related project work) - 2 Faculty Mobility (Incoming - Short Courses) – 5 Vel Tech Delegates visited TKU - 2
A.Y. 2019-20	Student Mobility (Outgoing - Project Work) - 6 Student Mobility (Outgoing - Research Internship) - 3 Student Mobility (Incoming - Mobility Program) - 5 Faculty Mobility (Incoming - Short Courses) - 3
A.Y. 2020-21	Discussed Potential Collaborative Activities via Virtual Meet (Research collaborations, Faculty & Student Mobility, Dual degree programs)

MoU Coordinator

Vel Tech * India * Office of International Relations * 19 FEB 2022

Dean - International Relations

Dr. P. Suresh
Dean -International Relations

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

Tamkang University

CERTIFICATE *of* PARTICIPATION

THIS CERTIFIES THAT

Ms.DANDE VENKATA NAGA SAI BHARGAVI

HAS SUCCESSFULLY COMPLETED THE

STUDENT EXCHANGE PROGRAM/PROJECT IN IOT

SHE ALSO WORKED IN **WIRELESS AND MOBILE NETWORKS LAB** AND COMPLETED WIRELESS SENSOR NETWORKS AND INTERNET OF THINGS COURSE UNDER THE GUIDANCE OF **PROFESSOR CHIH YUNG CHANG** DURING PERIOD OF **FEB 10 2017 TO JUNE 15 2017**

Chih-Yung Chang

PROFESSOR CHIH YUNG CHANG
DEPT. OF COMPUTER SCIENCE AND INFORMATION ENGINERRING,
TAMKANG UNIVERSITY,
NEW TAIPEI CITY,
TAIWAN.

淡江大學交換生結業證明書

(106)處國際證字第 00106083 號

印度費爾科技大學學生辛柏凱於
2016 年 9 月至 2017 年 7 月於本校研修期間認真向學表現優異特頒此證書以資證明

校長 張家宜

中華民國 106 年 7 月 31 日

TAMKANG UNIVERSITY

Certificate of Completion for Exchange Students

Jul 31, 2017

This is to certify that PUSHKAR KUMAR SINGH from Veltech Dr.RR & Dr.SR University, India, was enrolled in the TKU Department of Mechanical and Electro-Mechanical Engineering from September 2016 to July 2017 and completed all course requirements with outstanding results.

Flora Chia-I Chang

President

淡江大學交換生結業證明書

(106)處國際證字第 00106082 號

印度費爾科技大學學生卡尼諾於2016 年 9 月至 2017 年 7 月於本校研修期間認真向學表現優異特頒此證書以資證明

校長 張家宜

中華民國 106 年 7 月 31 日

TAMKANG UNIVERSITY

Certificate of Completion for Exchange Students

Jul 31, 2017

This is to certify that NIROJ KAPRI from Veltech Dr.RR & Dr.SR University, India, was enrolled in the TKU Department of Mechanical and Electro-Mechanical Engineering from September 2016 to July 2017 and completed all course requirements with outstanding results.

Flora Chia-I Chang

President

淡江大學交換生結業證明書

(106)處國際證字第 00106081 號

印度費爾科技大學學生潘明希於
2016 年 9 月至 2017 年 7 月於本校研修期間認真向學表現優異特頒此證書以資證明

校長 張家宜

中華民國 106 年 7 月 31 日

TAMKANG UNIVERSITY

Certificate of Completion for Exchange Students

Jul 31, 2017

This is to certify that NIKHIL PANCHAL from Veltech Dr.RR & Dr.SR University, India, was enrolled in the TKU Department of Mechanical and Electro-Mechanical Engineering from September 2016 to July 2017 and completed all course requirements with outstanding results.

Flora Chia-I Chang

President

Tamkang University

CERTIFICATE *of* PARTICIPATION

THIS CERTIFIES THAT

Ms.RASHMI KRISHNA

HAS SUCCESSFULLY COMPLETED THE

STUDENT EXCHANGE PROGRAM/PROJECT IN IOT

SHE ALSO WORKED IN **WIRELESS AND MOBILE NETWORKS LAB** AND COMPLETED WIRELESS SENSOR NETWORKS AND INTERNET OF THINGS COURSE UNDER THE GUIDANCE OF **PROFESSOR CHIH YUNG CHANG** DURING PERIOD OF **FEB 10 2017 TO JUNE 15 2017**

Chih-Yung Chang

PROFESSOR CHIH YUNG CHANG
DEPT. OF COMPUTER SCIENCE AND INFORMATION ENGINERRING,
TAMKANG UNIVERSITY,
NEW TAIPEI CITY,
TAIWAN.

Veltech Dr.RR & Dr.SR University®
(Estd. u/s 3 of UGC Act, 1956)

School of Mechanical and Construction

Department of Civil Engineering

Specialized one credit course on

"Construction Planning and Scheduling"

(1157CE901)

by

Prof. Dr. Fan Su-Ling

Tamkang University, Taiwan

Held on

Date: January 30 to February 10, 2017

Fan, Su-Ling



Job title	Associate Professors
Name	Fan, Su-Ling
Education	Ph.D., National Taiwan University , 2006
ext.	3219
E-mail	fansuling@hotmail.com
Office	E721
Professional Experiences	Century Development Corporation, 2002- 2003, Civil Service Development Institute New Construction Project Team,1997-2000 Public Construction Commission, Executive Yuan, 1996-2000 Department of Life Science, National Taiwan University, 1994-1996 Tai-Yang Construction Company, 1994 . Gee-Tai Development Co., Ltd.,1993-1994 TECO Electric & Machinery Co., LTD. , 2005~2009 TECO-TAKENAKA, 2007 Der Poa Construction Co.LTD.,2008-2009 Leader Construction Co.LTD.,2005-2009 Ba-Ching Construction Co.LTD,, 2009
Personal website	

Academic Expertise：

Construction Planning and Scheduling
Construction Law and Delay Claims
Building Information Models and Information Technology Application in

TEACHING INTERESTS：

1. Construction Law, Dispute Resolutions and Delay Claims.
2. Project Management courses in Engineering Economy, Project Time Management, Project Finance Management and Project Quality Management.
3. Information Technology courses in Information Management, Building Information Models , Management of Information System, and Object-Oriented System Analysis and Design.

Research Topics：

1. As RESEARCH INTERESTS

Publications：

No.	一、Journal paper summary
1	范素玲(2008), “淺談工期延展之爭議與求償”, 仲裁協會2008季刊。
2	**范素玲**(2007), “工期展延爭議之舉證”, 營建管理季刊2007年冬季號。
3	**Fan, Su-Ling** and Lin, Y. C. (2007). "Time-Cost Trade-off in Repetitive Projects with Soft Logics." Proc. 2007 International Conference on Computing in Civil Engineering, ASCE, July. 25-28 2005, held in Carnegie-Mellon University, Pittsburgh
4	**Su-Ling, Fan**(2007), “Project Schedule Planning and Updating System Applying Current Design and Construction Documents”, Project of National Science Council.
5	**Su-Ling Fan** and H. P. Tserng (2006). “Object-oriented Scheduling for Repetitive Projects with Soft Logics”, Journal of Construction Engineering and Management, Vol.132, No.1, ASCE.
6	**Su-Ling Fan**, H.P. Tserng, Ming-Teh Wang (2003). “Development of an object-oriented scheduling model for construction projects.” Automation in Construction, Vol. 12, Elsevier, 283-302.
	二、Seminar paper summary
1	**S. L. Fan**, S. C. Kang, S. H. Hsieh, Y. H. Chen, C. H. Wu, J. R. Juang(2009), " A Case Study on Construction 3D/4D BIM model from 2D Drawings and paper-based documents using a school building project”, The International Conference on Computational Design in Engineering.
2	易力行, 吳崇弘, **范素玲,** 吳政樺(2009), “工程專案進度管理系統之實務應用與進度管制報表” 九十八年電子計算機於土木水利工程應用研討會。
3	蔡鈺堂 , 翁燈景, **范素玲**(2009), “營建混合物之管理問題研究並以台南縣為例”,2009營建管理研討會。
4	**范素玲**(2009), “以類神經網路建置建築工程專案時程估算系統之研究”, 行政院國家科學委員會。
5	Lin, Y. C., **Fan, S. L.**, Tung, N. C. and Lin, H. C. (2006). "Developing Construction Network-based Experience Management System." Proc. International Conference in the Built Environment in the 21st Century
6	Ming-Teh Wang, **Su-Ling Fan**,” Construction Object Scheduling System”, ISARC 2000 Proceeding.
	三、Academic Articles
1	**范素玲**(2005), “不固定作業關係之重複性工程排程模式之研究”, 國立台灣大學博士論文， 民國九十四年六月。

DINT/2017/27

Veltech Dr.RR & Dr.SR University

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

Date: 03-Feb-2017

Our Ref. No: 2017/VF1/1	Your Ref. No:

S.SIVAPERUMAL

Director (i/c) – International Relations

Submitted for the Approval:

Name of the Professor : Prof. Su-Ling Fan (Laura)

University & Country : Tamkang University, Taipei, Taiwan.

Course Title : Construction planning & Scheduling

Dept. & Students : Civil Engineering & IV Semester

Dates : 30th Jan. 2017 to 10th Feb. 2017

Sl. No.	Description	Amount (INR)
1	Flight Tickets (Booked by the Professor) – NTD 32751	70,586
2	Visa Charges – NTD 2600	5,603
3	Course Honorarium (Rs.3000 * 30 Hrs)	90,000
Total		**1,66,189**

(Rupees One Lakh Sixty Six Thousand One Hundred and Sixty Nine only)

In this regard, request your approval for the payment of in equivalent **New Taiwan Dollar (NTD).**

Her return flight is on 9th Feb. 2017. Hence, please pay the money on 8th Feb. 2017.

Thank you

(S.Sivaperumal)

S. Sivaperumal
Director International Relations
Veltech Dr.RR & Dr.SR University
(Estd. u/s 3 of UGC Act, 1956)

Sir, Give cash non-PO payment authorisation slip.

(Ticket & Bills attached)

400 feet Outer Ring Road, Avadi,
Chennai-600 062, Tamil Nadu, India.
Landline : +044 2684 0332 / 2684 0262
Toll Free : 1800 3070 6949
Email : vtu@veltechuniv.edu.in
Website : www.veltechuniv.edu.in



Professor: Prof. Fan Su-Ling(Laura), Dept of Civil Engineering
Tamkang University, Taiwan.

Title of the Course: Construction Planning & Scheduling

Dates: 29th January 2017 to 11th February 2017

Course Contents:

Course	Subject/Topics
1	Introduction/ Scheduling Models
2	Duration Estimation/Logics/Bar –Chart and Network(Formatting)
3	Calendars and Constrains
4	Work Breakdown Structure
5	Resource Allocation and Leveling
6	CBS(Cost Breakdown Structure)
7	RBS(Resource Breakdown Structure)
8	Earned Value Management
9	Filtering
10	Scheduling Updating

28.01.2017

Dr. E. B. Perumal Pillai
Professor & Head.

Ref: VTU/Civil/Specialized Course / 2016-17 (Even) / 24

To:

The Director Academics
Veltech Dr.RR Dr.SR University.

Sir,

Sub: Conduction of Specialized Course- Approval Reg.,

Prof. Su-Ling Fan (Laura), from Tamkang University, Taiwan will be Visiting our University from Jan 30th to Feb 10th, 2017 to conduct a Short term course on "Construction Planning and Scheduling" for II Year Civil Engineering students and M. Tech I Year Construction Engineering and Management Students. Prof. Su-Ling Fan (Laura), will be giving lecture from 10.00 am to 1.00 pm for 10 days (30 hours). The following students are shortlisted to attend this programme.

S. No	Vtu No.	Name	S. No	Vtu No.	Name
1	VtU5917	ABIRAMI.P	17	VtU6227	NEETAM MOIRANGJAM
2	VtU5982	ADAPALA PAVAN NAREN NAIDU	18	VtU5991	PAVITHRA
3	VtU6336	ALUGADDA NITHIN KRISHNA	19	VtU6539	PULKIT AGRAWAL
4	VtU6236	ANKIT KUMAR SONI	20	VtU6161	RAMAYANAM CHANDRA SEKHAR
5	VtU6423	ANUDEEP.B	21	VtU6419	SHAIK MOHAMMED SOHAIL
6	VtU6523	ANUJ KUMAR CHAKRAVARTY	22	VtU6540	SIDAGAM ESWAR
7	VtU6439	ARAVINDAN.M	23	VtU6619	VACCHANI DHAVAL MAHENDAR
8	VtU6587	HEMNATH.G	24	VtU6463	VADDI NAVEEN KUMAR REDDY
9	VtU6131	JAGADEESWARREDDY KOPPARTHI	25	VtU5999	VIKRAM PRATAP SINGH
10	VtU6232	KEERTHI.V.B	26	VTU5879	ADAPALA NAGA JOTHI
11	VtU6283	KOTTIDI VIJAYA KUMAR	27	VTU 8218	GEINGUVA
12	VtU6659	MANISHIKA VICARIO D.SANGMA	28	VTU 8350	VIJAYAKUMAR
13	VtU6613	MOHAMMED ASHIQUE	29	**VTP 1881**	**ADHAVAN. P. S**
14	VtU5920	MOHAMMED ZAMIN	30	**VTP 1818**	**MADHUBALAN. E**
15	VtU6115	MOHANRAJ.R	31	**VTP1817**	**NIKHIL KUMAR**
16	VtU6347	NARAPAREDDY REDDAIAH	32	**VTP 1842**	**JANARTHANAN. P**

The short-term courses for 2 credits as under VTU-R15 Clause 7.2.8.3 and under MTECH-R16 Clause 6.2 the requirements include attending 30 lecture hours, completing assignments on time and passing a final examination. The course syllabus is enclosed here with. The course may be approved and students may be given 2 credits after successfully completing the course requirement.

28/1

HOD/ CIVIL

Dr. E. B. Perumal Pillai
Head of the Department,
Civil Engineering
Veltech Dr.RR & Dr.SR University
(Estd. u/s 3 of UGC Act,1956)

SCHOOL OF MECHANICAL AND CONSTRUCTION ENGINEERING

DEPARTMENT OF CIVIL ENGINEERING

SHORT TERM COURSE ON CONSTRUCTION PROJECT MANAGEMENT

MARK STATEMENT

No	VtU No.	Name	Attendance Percentage %	Final Exam Marks (Max. 100)	Grade
1	VtU 5917	Abirami.P	100	92	S
2	VtU 5982	Adapala Pavan Naren Naidu	90	88	A
3	VtU 6336	Alugadda Nithin Krishna	100	86	A
4	VtU 6236	Ankit Kumar Soni	100	88	A
5	VtU 6423	Anudeep.B	80	86	A
6	VtU 6523	Anuj Kumar Chakravarty	100	88	A
7	VtU 6439	Aravindan.M	90	86	A
8	VtU 6587	Hemnath.G	100	88	A
9	VtU 6131	Jagadeeswarreddy Kopparthi	100	87	A
10	VtU 6232	Keerthi.V.B	100	85	A
11	VtU 6283	Kottidi Vijaya Kumar	100	87	A
12	VtU 6659	Manishika Vicario D.Sangma	100	91	S
13	VtU 6613	Mohammed Ashique	100	87	A
14	VtU 5920	Mohammed Zamin	100	80	A
15	VtU 6115	Mohanraj.R	90	80	A
16	VtU 6227	Neetam Moirangjam	100	85	A
17	VtU 5991	Pavithra	90	88	A
18	VtU 6539	Pulkit Agrawal	100	88	A
19	VtU 6161	Ramayanam Chandra Sekhar	100	80	A
20	VtU 6419	Shaik Mohammed Sohail	100	83	A
21	VtU 6540	Sidagam Eswar	100	83	A
22	VtU 6619	Vacchani Dhaval Mahendar	100	80	A
23	VtU 6463	Vaddi Naveen Kumar Reddy	100	87	A
24	VtU 5999	Vikram Pratap Singh	100	91	S
25	VtU 5879	Adapala Naga Jyothi	90	82	A
26	VtU 8218	Geinguba	100	81	A
27	VtU 8350	Vijayakumar	100	90	S
28	VtP 1881	Adhavan	80	81	A
29	VtP 1818	Madhubalan	80	70	B
30	VtP 1817	Nikhil Kumar	90	85	A
31	VtP 1842	Janarthanan	90	75	B

24/2/17

COURSE COORDINATOR

24/02

HOD/ CIVIL

Dr. E. B. Perumal Pillai
Head of the Department,
Civil Engineering
Veltech Dr.RR & Dr.SR University
(Estd. u/s 3 of UGC Act,1956)

SNo	Stu_Id	Stu_Name	Stu_Branch	Stu_Test_SubjectC	Stu_Test_SubjectName	Stu_Subjec	Stu_Grade
1	VtU6539	PULKIT AGRAWAL	CIVIL	1157CE901	Construction Project Management	Pass	A
2	VtU6540	SIDAGAM ESWAR	CIVIL	1157CE901	Construction Project Management	Pass	A
3	VtU6587	HEMNATH G	CIVIL	1157CE901	Construction Project Management	Pass	A
4	VTU6613	MOHAMMED ASHIQUE	CIVIL	1157CE901	Construction Project Management	Pass	A
5	VtU6619	VACCHANI DHAVAL MAHENDAR	CIVIL	1157CE901	Construction Project Management	Pass	A
6	VtU6659	MANSHIKA VICARIO D. SANGMA	CIVIL	1157CE901	Construction Project Management	Pass	S
7	VTU8218	GEINGUBA PERGUNGUBA	CIVIL	1157CE901	Construction Project Management	Pass	A
8	VTU8350	VIJAY KUMAR G	CIVIL	1157CE901	Construction Project Management	Pass	S
9	VTU5879	ADAPALA NAGA JYOTHI	CIVIL	1157CE901	Construction Project Management	Pass	A
10	VTU5917	ABIRAMI.P	CIVIL	1157CE901	Construction Project Management	Pass	S
11	VTU5920	MD ZAMIN S	CIVIL	1157CE901	Construction Project Management	Pass	A
12	VTU5982	ADAPALA PAVAN NAREN NAIDU	CIVIL	1157CE901	Construction Project Management	Pass	A
13	VTU5991	PAVITHRA	CIVIL	1157CE901	Construction Project Management	Pass	A
14	VTU5999	VIKRAM PRATAP SINGH	CIVIL	1157CE901	Construction Project Management	Pass	S
15	VTU6115	MOHANRAJ.R	CIVIL	1157CE901	Construction Project Management	Pass	A
16	VTU6131	JAGADEESWARREDDY KOPPARTHI	CIVIL	1157CE901	Construction Project Management	Pass	A
17	VTU6161	RAMAYANAM CHANDRA SEKHAR	CIVIL	1157CE901	Construction Project Management	Pass	A
18	VTU6227	NEETAM MOIRANGJAM	CIVIL	1157CE901	Construction Project Management	Pass	A
19	VTU6232	KEERTHI.V.B	CIVIL	1157CE901	Construction Project Management	Pass	A
20	VTU6236	ANKIT KUMAR SONI	CIVIL	1157CE901	Construction Project Management	Pass	A
21	VTU6283	KOTTIDI VIJAYA KUMAR	CIVIL	1157CE901	Construction Project Management	Pass	A
22	VTU6336	ALUGADDA NITHIN KRISHNA	CIVIL	1157CE901	Construction Project Management	Pass	A
23	VTU6419	SHAIK MOHAMMED SOHAIL	CIVIL	1157CE901	Construction Project Management	Pass	A
24	VTU6423	ANUDEEP B	CIVIL	1157CE901	Construction Project Management	Pass	A
25	VTU6439	ARAVINDAN M	CIVIL	1157CE901	Construction Project Management	Pass	A
26	VTU6463	VADDI NAVEEN KUMAR REDDY	CIVIL	1157CE901	Construction Project Management	Pass	A
27	VtU6523	ANUJ KUMAR CHAKRAVARTY	CIVIL	1157CE901	Construction Project Management	Pass	A

Certificate of Internship

This is to certify that

MR. ALLA BHARAT CHANDRA

participated in the **"2017-2018 TEEP@AsiaPlus Program"**, a short-term professional internship program launched by the Ministry of Education, Taiwan, and fulfills the internship requirements of the **Unmanned Aerial Vehicles Laboratory** at the **Department of Aerospace Engineering** in the **Tamkang University**.

The program details are as follow:

Research Topic:	Unmanned Aerial Vehicles
Hosting Unit:	Department of Aerospace Engineering, Tamkang University
Principal Investigator:	Prof. Fu-Yuen Hsiao
Program Duration:	2018/03/06 - 2018/06/05

June 5th, 2018

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The program details are as follow:

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Hosting Unit:	Department of Aerospace Engineering, Tamkang University
Principal Investigator:	Prof. Fu-Yuen Hsiao
Program Duration:	2018/03/06 - 2018/06/05

June 5th, 2018

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participated in the **"2017-2018 TEEP@AsiaPlus Program"**, a short-term professional internship program launched by the Ministry of Education, Taiwan, and fulfills the internship requirements of the **Unmanned Aerial Vehicles Laboratory** at the **Department of Aerospace Engineering** in the **Tamkang University**.

The program details are as follow:

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Hosting Unit:	Department of Aerospace Engineering, Tamkang University
Principal Investigator:	Prof. Fu-Yuen Hsiao
Program Duration:	2018/03/06 - 2018/06/05

June 5th, 2018

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Principal Investigator:	Prof. Fu-Yuen Hsiao
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Certificate of Internship

This is to certify that

Mr. Ashutosh Tiwari

has completed his TEEP Program from Jan. 1, 2018 to Apr. 30, 2018

in the Department of Mechanical and Electromechanical Engineering,

Tamkang University, Taiwan.

Professor and Chair, Yin-Tien Wang

淡江大學 機械與機電工程學系

Yin-tien Wang

Apr. 30, 2018

TAMKANG UNIVERSITY

This is to certify that

Mr. BANJARE BHAVESH NISHANT

has successfully completed the

STUDENT EXCHANGE PROGRAM/PROJECT in Internet of Things (IoT) from Feb'18 to June'18 In the department of Computer Science and Information Engineering

Chih-Yung Chang

Professor Chih-Yung Chang(張志勇),
Dept. CSIE, Tamkang University,
New Taipei City,
Taiwan.

淡江大學 資訊工程學系 工學院

TAMKANG UNIVERSITY

This is to certify that

Mr. SHASHI KISKU

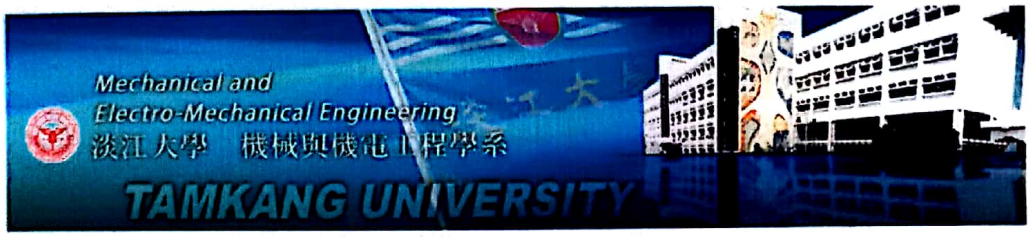
has successfully completed the

STUDENT EXCHANGE
PROGRAM/PROJECT in Artificial
Intelligence (AI) from Feb'18 to June'18
In the department of Computer Science
and Information Engineering

Chih-Yung Chang

Professor Chih-Yung Chang(張志勇),
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淡江大學
資訊工程學系
工學院



Certificate of Internship

This is to certify that

Mr. Pasupulati Bhanu Sai

has completed his TEEP Program from Jan. 1, 2018 to Apr. 30, 2018

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淡江大學 機械與機電工程學系

Yin-tien Wang

Apr. 30, 2018

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Certificate of Internship

This is to certify that

Mr. Kompala Saravana

has completed his TEEP Program from Jan. 1, 2018 to Apr. 30, 2018

in the Department of Mechanical and Electromechanical Engineering,

Tamkang University, Taiwan.

Professor and Chair, Yin-Tien Wang

Yin-tien Wang

Apr. 30, 2018



Certificate of Internship

This is to certify that

Mr. Surya Govind

has completed his TEEP Program from Jan. 1, 2018 to Apr. 30, 2018
in the Department of Computer Science and Information Engineering, Tamkang University, Taiwan.

Chien-Chang Chen

Department Chair, Chien-Chang Chen
Apr. 30, 2018

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Certificate of Internship

This is to certify that

Mr. Dharma Teja Bandaru

has completed his TEEP Program from Jan. 1, 2018 to Apr. 30, 2018

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Department Chair, Chien-Chang Chen

Apr. 30, 2018

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Certificate of Internship

This is to certify that

Mr. Subhanshu Ranjan Maurya

has completed his TEEP Program from Jan. 1, 2018 to Apr. 30, 2018

in the Department of Computer Science and Information Engineering, Tamkang University, Taiwan.

Chien-Chang Chen

Department Chair, Chien-Chang Chen

Apr. 30, 2018

淡江大學 資訊工程學系 工學院



Certificate of Internship

This is to certify that

Mr. Mohd Bilal Ansari

has completed his TEEP Program from Jan. 1, 2018 to Apr. 30, 2018
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Chien-Chang Chen

Department Chair, Chien-Chang Chen
Apr. 30, 2018

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

School of Mechanical & Constructions

Department of Aeronautical Engineering

Specialized one credit course on

"Micro Air Vehicles"

(1157AE908)

by

Prof. Dr. Lung-Jieh Yang

Tamkang University, Taiwan

Held on

Date: January 12 to 21, 2018

CURRICULUM VITAE



1. *Personal data*

- Lung-Jieh Yang
- Nationality: TAIWAN, R.O.C.
- Sex：Male
- DOB: Aug. 07, 1965
- Corresponding Address: Department of Mechanical and Electro-Mechanical Engineering, TamkangUniversity, #151, Ying-Chuan Rd., Tamsui, 25137, Taipei, TAIWAN, R.O.C.
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2. *Education*

- Ph.D., Institute of Applied Mechanics, National Taiwan University, TAIWAN, R.O.C., Dec., 1996
- M.S., Institute of Mechanical Engineering, Tamkang University, TAIWAN, R.O.C., June, 1991
- B.S., Department of Aerospace Engineering, National Cheng-Kung University, TAIWAN, R.O.C., June, 1987

3. *Current position and relevant experience*

Current position： Professor, Department of Mechanical and Electro-Mechanical Engineering, Tamkang University, TAIWAN (since Aug., 2012)

Relevant experience：

- Editor-in-Chief, Tamkang Journal of Science and Engineering, ISSN 1560-6686 (since Aug. 2011)
- Adjoint Research Fellow, National Applied Research Lab, TAIWAN (Aug. 2008~Aug. 2011)
- Professor, Department of Mechanical and Electro-Mechanical Engineering, Tamkang University, TAIWAN (since Aug., 2007)
- Director, Incubation Center, Tamkang University (Aug. 2008~Jul. 2009)
- Director, Instrument and Experiment Center, Tamkang University (Aug. 2003~Jul. 2008)
- Associate Professor, Department of Mechanical and Electro-Mechanical Engineering, Tamkang University, TAIWAN (Aug., 2002~Jul., 2006)

- Assistant Professor, Department of Mechanical Engineering, Tamkang University, TAIWAN (Aug., 1997~Jul., 2002)
- Visiting Associate, Department of Electrical Engineering, California Institute of Technology, USA (Sep., 2000~Aug., 2001)

4. ***Fields of specialty (limit to fields related to research)***
   - MEMS (micro electro mechanical systems)
   - Micro Aerial Vehicles

5. ***Major awards and honors***
   - IEEE *International Conference on Nano/Micro Engineered and Molecular Systems* (IEEE NEMS), TPC members: 2009-2012
   - Co-Chair, The 10th International Heat Pipe Symposium, Nov. 6-9, 2011.
   - Tamkang Research Awards: 1998, 2000, 2002-2012
   - Best Student Paper Award (Adviser), 2009 International Conference on Mechatronic System of Integration and Application, Tainan, Dec. 4-5, 2009.
   - Best Paper Award, The 10th Conference on Nano Engineering and Micro System Technology of Taiwan, Nov. 30-Dec. 1, 2006.
   - Best Student Paper Award (Adviser), The Third Asia-Pacific Conference On Transducers (APCOT-2006), Singapore, June 25-28, 2006.
   - NSC Research Awards: 1998.

Significant project-related publications in the past five years, including: journal papers, patents, periodical articles, or books, etc.

Journal papers:

1. Lung-Jieh Yang, Chung-Yu Kao, and Chin-Kwang Huang, 2012, "Development of flapping ornithopters by precision injection molding," ***Applied Mechanics and Materials***, v. 163, pp. 125-132.
2. Lung-Jieh Yang, A-Fu Kuo, and Cheng-Kuei Hsu, 2012, "Wing stiffness on light flapping micro aerial vehicles," ***Journal of Aircraft***, v. 49, n. 2, pp. 423-431.Lung-Jieh Yang and Tzu-Yuan Lin, 2011, "A PDMS-based thermo-pneumatic micropump with parylene inner walls," ***Microelectronic Engineering***, v. 88, n. 8, pp. 1894-1897.
3. Lung-Jieh Yang, 2010, "On gas-permeation in PDMS," ***Journal of Micromechanics and Microengineering***, v. 20, n. 11, 115033.
4. Yung-Chiang Chung, Li-Wei Lai, Lung-Jieh Yang, and Wei-Jie Liao, 2010 "Comparison of different metal film thicknesses of COC-substrate polymerase chain reaction chips with single-side and double-side heaters,"***Journal of Micro/Nanolithography, MEMS, and MOEMS***, v. 9 (3), 031006.

5. Yung-Chiang Chung,Guo-Yuan Hess, Fu-Wen Yeh, Hsieh-Cheng Han,Chien-Yuan Chen, Ching-Jiun Lee, Horn-Jiunn Sheen, and Lung-Jieh Yang, 2010, "Fabrication and testing of surface ratchets primed with hydrophobic parylene and hexamethyldisilazane for transporting droplets," ***Journal of Micro/Nanolithography, MEMS, and MOEMS***, v. 9 (1), 013035.
6. Lung-Jieh Yang, Cheng-Kuei Hsu, Hsieh-Cheng Han, and Jr-Ming Miao, 2009, "A light flapping micro-aerial-vehicle using electrical discharge wire cutting technique,"***Journal of Aircraft,*** v. 46, n. 6, pp. 1866-1874.
7. Lung-Jieh Yang, Cheng-Kuei Hsu, Chun-Yu Kao, Fu-Yuen Hsiao, and Chao-Kung Feng, 2009, "Weight reduction of flapping micro aerial vehicles using electrical discharge wire machining," ***Journal of Aeronautics, Astronautics and Aviations-Series A***, v. 41, n. 3, pp. 165-172.
8. Lung-Jieh Yang, 2009, "Gas permeation in PDMS in-situ monitoring by silicon pressure sensors," ***Advanced Materials Research***, v. 74, pp. 113-116.
9. P.-L. Lu, C.-L. Fan, L.-J. Yang, C.-W. Lin, F.-S. Jaw, 2009, "Novel fabrication of full parylene-isolated neuroprobes,"***Journal of Bionanoscience***, v. 3, n. 1, pp. 58-60.
10. Yu-Cheng Ou, Chih-Wen Hsu, Lung-Jieh Yang,Hsieh-Cheng Han, Yi-Wen Liu, and Chien-Yuan Chen, 2008, "Attachment of tumor cells to the micropatterns of glutaraldehyde (GA)-crosslinked gelatin," ***Sensors and Materials***, v. 20, n. 8, pp. 435-446.
11. Ling-ChihChien, Nan-Fu Chiu, Adam Shih-Yuan Lee, Lung-JiehYang,Yao-Joe Yang, Kuang-Chong Wu, Chih-Kung Lee, and Chii-Wann Lin, 2007, "Electrochemical detection of high-sensitivity C-reactive protein based on biomimic design of electroactive nanoassembly multilayers,"***Journal of Bionanoscience***, v. 1, n. 1, pp. 44–50.
12. Lung-Jieh Yang, Hsin-Hsiung Wang, Po-Chiang Yang, Y.-C. Chung, and T.-S. Shen, 2007, "New packaging method using PDMS for piezoresistive pressure sensors," ***Sensors and Materials***, v. 19, n. 7, pp. 391-402.
13. Lung-Jieh Yang, C.-K. Hsu, J.-Y. Ho, and C.-K. Feng, 2007, "Flapping wings with PVDF sensors to modify the aerodynamic forces of a micro aerial vehicle," ***Sensors and Actuators A: Physical***, v. 139, pp. 95-103.
14. Lung-Jieh Yang, K.-C. Ko, and J.-M. Wang, 2007, "A circular microchannel integrated with embedded spiral electrodes using for fluid transportation,"***Sensors and Actuators A: Physical***, v. 139, pp. 172-177.
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18. Lung-Jieh Yang, Hsin-Hsiung Wang, Jiun-Min Wang, Kuan-Chun Liu and Kai-Chung Ko, 2006, "Buckled-type valves integrated by parylene micro-tubes," ***Sensors and Actuators A: Physical***, Vol. 130-131, pp. 241-246.
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Conference papers:

1. Lung-Jieh Yang, Aug. 19-24, 2012, "Wingtip trajectory of a flapping micro-air-vehicle in its forward flight," the 23rd International Congress of Theoretical and Applied Mechanics (ICTAM2012), Beijing, China, FS-06-010
2. L.-J. Yang, C.-Y. Kao, and C.-K. Huang, Mar. 23-25, 2012, "Development of flapping ornithopters by precision injection molding," Proc. of the 9th International Conference on History of Mechanical Technology and Mechanical Design, Tainan, Taiwan, pp. 123-130
3. L.-J. Yang and B.-H. Chen, Mar. 5-8, 2012, "Blood vessels by fractal gelatin," The 7th IEEE International Conference on Nano/Micro Engineered and Molecular Systems (IEEE NEMS 2012), Kyoto, Japan, pp. 242-245
4. L.-J. Yang et al., Nov. 6-9, 2011, "An ultra-small Wankel engine by MEMS process," The 10th International Heat Pipe Symposium, Tamsui, Taiwan, pp.272-276
5. L.J. Yang, C.W. Hsu, and Y.C. Ou, "The minimum time estimation for initiating tumor-cell attachment," June 5-9, Technical Digest of the 16th International

Conference on Solid-State Sensors, Actuators and Microsystems (Transducers '11), Beijing, China, pp. 2386-2389, 2011

6. L.J. Yang, I.C. Huang, Y.S. Chen, W.T. Tang, and A.B. Wang, "A parylene-LED wingbeating indicator for visual remote sensing," June 5-9, Technical Digest of the 16th International Conference on Solid-State Sensors, Actuators and Microsystems (Transducers '11), Beijing, China, pp. 422-425, 2011
7. A-Fu Kao, Lung-Jieh Yang, Fu-Wen Yeh, Feb. 20-23, 2011, "Fractal grooves applied to passive micro-mixers," The 6th IEEE International Conference on Nano/Micro Engineered and Molecular Systems, IEEE NEMS 2011, Kaohsiung, Taiwan
8. Lung-Jieh Yang, Chia-Chan Lee, Po-Hung Chen, Chih-Wen Hsu, Feb. 20-23, 2011, "Confined fractal patterns in gelatin," The 6th IEEE International Conference on Nano/Micro Engineered and Molecular Systems, IEEE NEMS 2011, Kaohsiung, Taiwan
9. L.-J. Yang and T.-Y. Lin, Sep. 19-22, 2010, "A PDMS-based thermopneumaticmicropump with parylene inner walls," MNE 2010, Genoa (Italy)
10. L.-J. Yang, J.-M. Maio, A.-F. Kuo, and C.-K. Hsu, Jun. 28-Jul.1, 2010, "Effect of flexural stiffness on the aerodynamic forces of flapping MAVs," The 28th AIAA Applied Aerodynamics Conference, Chicago (art. no. AIAA 2010-5077)
11. K.-F. Chang, Y.-C. Tsai, W. -P. Shih, and L.-J. Yang, Jan. 24-28, 2010, "An electro-active nano-valve array for reusable drug delivery system," Proceeding of the 23rd IEEE MEMS（**MEMS'10**）, Hongkong, pp. 1039-1042
12. Yang, L.-J., Jan. 20-23, 2010, "Gas permeation in PDMS monitored by on-site pressure sensors," The 5th IEEE International Conference on Nano/Micro Engineered and Molecular Systems, IEEE NEMS 2010, Xiamen, China, pp. 348-351
13. Yi-Shao Chen , Pei-Chun Weng, Po-Hung Chen, and Lung-Jieh Yang, 4-5 Dec, 2009, "Flexural stiffness effect on lift force of flapping micro aerial vehicles,"Proc. of 2009 International Conference on Mechatronic System of Integration and Application (ISBN 978-986-02-1190-0), Tainan, Taiwan, pp. 132-137.**(Best Student Paper Award-Silver medal)**
14. Ou, Y.-C., Hsu, C.-W., Yang, L.-J., Han, H.-C., and Chen, C.-Y., 18-21, Oct., 2009, "A cell culture system with better spatial and time resolution," Proc. of the 3rd IEEE International Conference on Nano/Molecular Medicine and Engineering (NanoMed 2009), Tainan, Taiwan, pp. 89-93
15. M.-D. Wu, Y.-C. Tsai, J.-J. Chen, W.-P. Shih, S.-H. Chang, P.-Z. Chang, J.-T. Huang, and L.-J. Yang, Jul., 2009, "Rapid dielectrophoresis assembly of single carbon nanocoil on an AFM probe tip," Technical Digest of the 15th International Conference on Solid-State Sensors, Actuators and Microsystems (**Transducers '09** - Denver), pp. 2250-2253
16. Y.-C. Tsai, N.-F. Chiu, P.-C. Liu, Y.-C Ou, H.-H. Liao, Y.-J. Yang, L.-J. Yang, U. Lei, F.-S. Chao, S.-S. Lu, C.-W. Lin, and W. -P. Shih, Jan. 25-29, 2009, "Fabrication processes of integrated multi-analyte biochip system for implantable applications", Proceeding of the 22nd IEEE MEMS（**MEMS'09**）, Sorrento, Italy, pp. 204-207
17. Ou, Y.-C., Hsu, C.-W., Yang, L.-J., Han, H.-C., Liu, Y.-W., Chen, C.-Y., 2009, "The

micropatterns of glutaraldehyde-crosslinked gelatin as ECM for attachment of tumor cells," 4th IEEE International Conference on Nano/Micro Engineered and Molecular Systems, NEMS 2009, art. no. 5068585, pp. 314-318

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29. C.-K. Hsu, J.-Y. Ho, G.-H. Feng, H.-M. Shih and Lung-Jieh Yang, Jun. 25-28, 2006, "A flapping MAV with PVDF-parylene composite skin," **APCOT-2006**, Singapore, p. 253 (SASN-A0019)**Best Student Paper Award- poster category.**

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Patents:

1. Lung-Jieh Yang, 壓阻式壓力感測器及其封裝方法, ROC (Taiwan) patent, I258,868, 06/01/2005.
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Books:

Some Knowing about MEMS (in Chinese：認識微機電), Tsang-Hai Book Corp.（滄海書局）, TAIWAN, 1st ed. (ISBN 957-2079-31-X), 2001.

Special Topics on Micro Air Vehicles

Lung-Jieh Yang, Tamkang University, Taiwan

Feb. 2018, Veltech, India

This course provides an overall briefing of MAV technology from thetheoretical background to the hands-on work of the flapping MAV“Golden-Snitch”.

1. Conservation laws and the constitution laws of fluid mechanics (2h)
2. Potential flows, Bernoulli equation and Kutta-Joukowski law (2h)
3. Dimensional analysis, discretilization, numerical computation and dimensionless parameters (2h)
4. Viscous flows, the boundary layer theory, and flow separation (2h)
5. Fundamental of aerodynamic as applied to micro aerial vehicles: low-Reynolds number flow, airfoil section, lift, downwash, tip vortex and the induced drag, power analysis, endurance and range estimation (4h)
6. Longitudinal stability analysis: short period and phugoid modes;Lateral stability analysis: roll, spiral and Dutch-roll modes (2h)
7. Introduction to micro air vehicles,rotary/fixed/flapping wing MAVs, advantages of flapping MAVs, vertebrate and insect flights (2h)
8. Building of “Golden Snitch”including the introduction of 4-bar-linkage, assembly of theflapping mechanism of “Golden Snitch” (one set for three students), and running test (4h)
9. Flight test of “Golden Snitch” (2h)
10. Measurement of flapping lift by PVDF (4h)
11. Force gauge measurement of “Golden Snitch” (4h)

SNo	Stu_Id	Stu_Name	Stu_Branch	Stu_Test_SubjectCode	Stu_Test_SubjectName	Stu_Subject_Pass Fail	Stu_Grade
1	VTU6173	SANDEEP NAGELLA	Aeronautical-Eng	1157AE908	Micro Air Vehicles	Pass	D
2	VTU6148	LAKKIREDDY VENKATA SWARUPA RANI	Aeronautical-Eng	1157AE908	Micro Air Vehicles	Pass	C
3	VTU5870	KONDEPATI KIRAN CHOWDARY	Aeronautical-Eng	1157AE908	Micro Air Vehicles	Pass	A
4	VTU6367	DASARI KOUSALYA	Aeronautical-Eng	1157AE908	Micro Air Vehicles	Pass	S
5	VtU6488	KRISHNA.SUSHMITHA	Aeronautical-Eng	1157AE908	Micro Air Vehicles	Pass	S
6	VTU6374	KUMAWAT ARVIND KUMAR NATHURAM	Aeronautical-Eng	1157AE908	Micro Air Vehicles	Pass	S
7	VTU6375	KUMAWAT MADHU NATHURAM	Aeronautical-Eng	1157AE908	Micro Air Vehicles	Pass	S
8	VTU6234	KUMBHAR SANKALP VIJAYKUMAR	Aeronautical-Eng	1157AE908	Micro Air Vehicles	Pass	S
9	VTU6085	MUHAMMED DANISH.V	Aeronautical-Eng	1157AE908	Micro Air Vehicles	Pass	A
10	VTU6468	KANIKANTI LEELAKRISHNA PRASAD	Aeronautical-Eng	1157AE908	Micro Air Vehicles	Pass	B
11	VTU6051	PANKAJ KUMAR	Aeronautical-Eng	1157AE908	Micro Air Vehicles	Pass	A
12	VtU6653	DONEPUDI NEHEMYA DHEERAJ	Aeronautical-Eng	1157AE908	Micro Air Vehicles	Pass	D
13	VTU6025	DONGA AKHIL KUMAR	Aeronautical-Eng	1157AE908	Micro Air Vehicles	Pass	C
14	VTU6673	GAJENDRAN S	Aeronautical-Eng	1157AE908	Micro Air Vehicles	Pass	A
15	VTU6021	GIDUTHURI SOMA SEKHAR	Aeronautical-Eng	1157AE908	Micro Air Vehicles	Pass	D
16	VTU6169	RUDRESH.K	Aeronautical-Eng	1157AE908	Micro Air Vehicles	Pass	B

17	VTU5878	SAURAV KUMAR	Aeronautical-Eng	1157AE908	Micro Air Vehicles	Pass	S
18	VtU6584	SUMANTH PHANI VARMA PENMETCHA	Aeronautical-Eng	1157AE908	Micro Air Vehicles	Pass	C
19	VTU6620	THAIBA NAZREEN.R	Aeronautical-Eng	1157AE908	Micro Air Vehicles	Pass	S
20	VTU6056	VALLEPU NAVEEN	Aeronautical-Eng	1157AE908	Micro Air Vehicles	Pass	D
21	VTU6331	VENNA SAINADHA REDDY	Aeronautical-Eng	1157AE908	Micro Air Vehicles	Pass	A
22	VtU6582	PAJJURU RAMAPAVAN	Aeronautical-Eng	1157AE908	Micro Air Vehicles	Pass	D
23	VTU6458	PALUKURU GEERVANI	Aeronautical-Eng	1157AE908	Micro Air Vehicles	Pass	D
24	VtU6624	ADDALA RAJA RAJA NARENDRA	Aeronautical-Eng	1157AE908	Micro Air Vehicles	RA	RA
25	VTU6034	AMIT KUMAR GOPE	Aeronautical-Eng	1157AE908	Micro Air Vehicles	Pass	S
26	VTU6012	BAKKA APPALA RAJU	Aeronautical-Eng	1157AE908	Micro Air Vehicles	Pass	C
27	VTU6196	BANDREDDY KARTHEEK	Aeronautical-Eng	1157AE908	Micro Air Vehicles	Pass	B
28	VTU6041	TASUPALLI CHANDRASHEKHAR	Aeronautical-Eng	1157AE908	Micro Air Vehicles	Pass	A
29	VtU6633	DANDI SAKETA	Aeronautical-Eng	1157AE908	Micro Air Vehicles	RA	RA

DINT/03-18/016.

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

Our Ref. No: 2017/VF 82	Your Ref. No:

Submitted for the Approval:

Name of the Professor: Prof. Dr. Lung- Jieh Yang
University & Country : Tamkang University, Taiwan
Course Title : Special topics on Micro Air Vehicles
Department : Aeronautical Engineering
Students : 2015-2019, 30 Students
2016-2018, 4 students
Program date : 12.02.2018 to 21.02.2018

Sl.No	Description	Amount in INR	Amount in NTD TWD
1	Course Honorarium (Rs.3000 * 10 hrs) **(Net Amount & Tax Free)**	30000	13419
	Total	**30000**	**13419**

(Rupees thirty thousand only)

In this regard, I request your approval for transferring the amount in ~~NTD~~ TWD to the following account.

Name : Lung- Jieh Yang
Account No : 21868113175
Bank : First Commercial Bank
Branch : Tamsui
SWIFT Code: FCBKTWTPXXX

Thank You

21/03/18.

S. Sivaperumal

Dr. S. Sivaperumal
Director International Relations
Vel Tech
Rangarajan Dr. Sagunthala

Paid 1000/- 27/3/18

	Name	Sign
Dr Read 23/3/18		
Dr Entd	Name	Sign
Dr Verified	Name	Sign
Dr of Filing	Name	Sign

Total - 37783.
TDS 20.6% - 7783
30000

PAID 30,000/-
ML No. 409343
CHQ.No. 221150
DTD. 26/3/18

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

School of Mechanical & Construction

Department of Civil Engineering

Specialized one credit course on

"Construction Management by using BIM virtual and augmented reality"

(1157CE909)

by

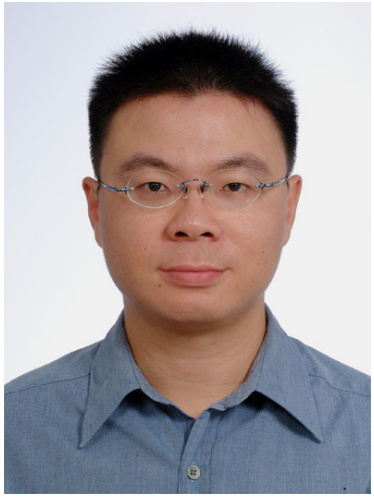
Prof. Dr. Ming Hsiu Tsai

Tamkang University Taiwan

Held on

Date: April 5 to 7, 2018

Curriculum Vitae



Name	William (Ming Hsiu) Tsai
Degree	Ph.D.
Title	Assistant Professor
Organization	Department of Civil Engineering, Tamkang University
Nationality	R.O.C. (Taiwan)
Telephone	+886 2 2620 2193
E-mail	mht@gms.tku.edu.tw

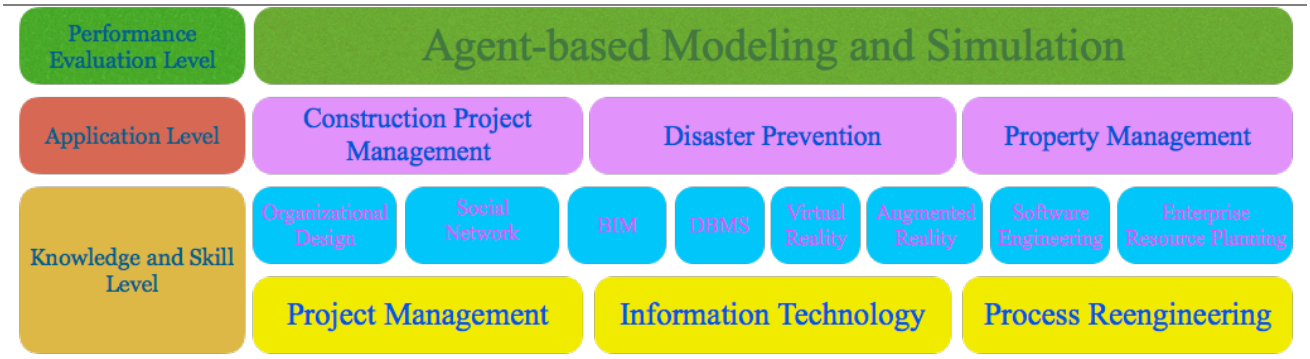
Education

- B.E. in Civil Engineering - 1997, National Central University, R.O.C (Taiwan)
- M.S.in Construction Management - 1988, National Taiwan University of Science and Technology, R.O.C (Taiwan), Construction Management Process Reengineering
- Ph.D. in Construction Management - 2007, National Taiwan University of Science and Technology, R.O.C (Taiwan), Cross-Organizational Process Reengineering for Design-Build Project Team

Experience

Assistant Professor, Department of Civil Engineering, Tamkang University, 2008 ~
Postdoctoral researcher, Research Institute of Environmental and Disaster Prevention Engineering, National Taiwan University of Science and Technolgoy (TaiwanTECH) 2007~2008

Recent Publications



- Building Information Model (BIM) Application
- Augmented Reality Application
- Data Integration
- Construction Management Information Development
- Agent-based Modeling and Simulation
- Project Team Behavioral Analysis
- Constructioin Management Process Reengineering
- Project Management Property Management

Teaching Interests

- Automation in Construction
- Engineering Information Management System
- Project Management
- Construction Management
- Database Management System (DBMS) Programming and Application
- Earth's Ecosystems and Environment

Selected Publications

Journal Papers:

1. **Tsai, M.**H., Huang S.R., (2016) "Agent-based collaborative efficiency simulation for construction project teams", Automation in Construction, Under Review (AUTCON-D-16-00197, 1st revised). (EI/SCI)
2. Cheng, M.Y., Su, C.W., **Tsia, M.H.**, Lin, K.S., (2011), "Data Preprocessing for Artificial Neural Network Applications in Prioriting Railroad Projects-A Practical Experience in Taiean", Journal of Civil Engineering and Management, accepted. (EI/SCI)
3. Cheng, M.Y., **Tsai, M.H.,** Sutan W., (2009), "Benchmarking-Based Process Reengineering for Construction Management", Automation in Construction, 18(5), pp605-623. (EI/SCI)
4. Cheng M.Y., **Tsai M.H.**, (2008) "Cross-Organizational Process Integration in Design-Build Team", Automation in Construction, 17(2), pp151-162. (EI/SCI)
5. Cheng M.Y., **Tsai M.H.**, Xiao Z.W., (2006) "Construction Management Process Re-engineering: Organizational Human Resource Planning for Multiple Projects", Automation in Construction, 15(6), pp785-799. (EI/SCI)

Conference Papers:

1. Ming-Hsiu Tsai, (2017). Using agent-based simulation approach for estimating the efficiency of the building project design team. In Civil, Architecture and Environmental Engineering, Volume 1. CRC Press/Balkema P.O. Box 11320, 2301 EH Leiden, The Netherlands: CRC Press/Balkema, pp. 139–144.
2. Ming-Hsiu Tsai, Sian-Ren Huang (2015, Jul). Agent-based Project Team Collaboration Behavior Simulation. 2015International Conference on Innovation, Communication and Engineering (ICICE 2015), Xiangtan, Hunan, P.R. China. MOST 104-2221-E-032-047. (**Best Concerence Paper Reward**)
3. Ming Hsiu Tsai, Yu Cheng Hus, Cheng Ming Chiu and Sheng Huang Chuang (2012, Jun). BIM-Vision-Based Indoor Localization Prototype. ISG*ISARC 2012 World Conference, Eindhoven, Netherlands.
4. **Tsai, M. H.**, (2010.06) "New Service Development Model for Property Management Companies ", The 27th *International Symposium on Automation & Robotics in Construction, Jun.25~27, Bratislava, Slovakia)*
5. Cheng, M.Y., and **Tsai, M. H.**, (2008.06) "Benchmarking for Construction Management Process Reengineering", The 25th *International Symposium on Automation & Robotics in Construction, Jun.26~29, Lithuania).*
6. Cheng, M.Y., and **Tsai, M. H.**, (2007.09) "Axiomatic-Design Scheduling Method for Fast-Track Construction", The 24th *International Symposium on Automation & Robotics in Construction, Sep.19~21, India).*
7. Cheng, M.Y., Lien, L.C., **Tsai, M.H**., Chen, W.N., (2007,09) "Open-Building Maintenance Management Using RFID Technology", The 24th *International Symposium on Automation & Robotics in Construction, Sep.19~21, India.*
8. Cheng M.Y, **Tsai M.H**., (2006,09) "Software agent for design-build process cooperation", The 23th *International Symposium on Automation & Robotics in Construction, Japan.*

9. Cheng M.Y, **Tsai M.H**., (2006.09) “Cross-Organization Process Re-Engineering for Design-Build Project Team Using Multi-Agent System”, Proceedings of the Fifth International Conference on Engineering Computational Technology, Las Palmas de Gran Canaria- Spain.

1	Name of the Course: **Construction Management by using BIM virtual and augmented reality**
2	Course Code:
3	Rationale for inclusion of the course/module in the programme: (1) Data will not convey useful information. Civil Engineering Students need to prepare the knowledge of data processing and information management. (2) Building Information Model (BIM) is becoming a standard requirement for the construction project. Civil Engineering Students would be expected to have abilities bring more contributions to manipulate BIMs. This module will teach students to understand both the methodology of information management and the basic framework for integrating construction information in BIM models.
4	Credit Value: 1
5	Prerequiste(if any): None
6	Learning outcome: On completion of the course, students will be able to: 1. Understand the necessity of information management system (IMS) for construction project. 2. Understand how to design a construction information database. 3. Realize the information integration mechanism by using BIM model and database technology. 4. Be demonstrated how to using BIM model in the construction phase by using Virtual Reality (VR) and Augmented Reality (AR). 5. Understand how to evaluate the construction project performance qualitatively and quantitatively.
7	Synopsis: This could be a fundamental information management course in Civil Engineering. In the first session, the basic knowledge relative the information management, software engineering and database management system will be introduced. In the second session, focus will be taken on using BIM, VR and AR for construction information integration and management. In the final session, the performance evaluation methodologies will be illustrated to students so that the impact of Information Technologies would be estimated.
8	Mode of Delivery: Lecture will be conducted face to face

9 Content outline of the course/module and the SLT per topic:

Sessions	Topics	HOURS
1	From construction data to managerial information ● Concept of Information Management System ● Software Engineering ● Fundamental understanding of Database Management (DBMS) ● Example of IMS	5
2	Bring BIM to Mobile VR+AR Application ● Introduction of Virtual Reality(VR) and Augmented Reality(AR) ● BIM-based information integration framework ● Development of BIM-based and Visualized Multi-Dimensional Construction Quality Management System: A Demonstration	5
3	Performance Evaluation after using new information technology ● Relationship between Information Technology(IT) and Process ● Qualitative Evaluation based on process value ● Quantitative Evaluation using Agent-based modeling and simulation.	5

10 Main reference(s) supporting course:

1. *Kensek, K. & Noble, D., 2014. Building Information Modeling, John Wiley & Sons.*
2. *Tsui, F., Karam, O. & Bernal, B., 2016. Essentials of Software Engineering, Jones & Bartlett Learning.*
3. *Sumathi, S. &Esakkirajan, S., 2007. Fundamentals of Relational Database Management Systems, Springer Science & Business Media.*
4. *WILENSKY, U. & Rand, W., 2015. An Introduction to Agent-Based Modeling: Modeling Natural, Social, and Engineered Complex Systems with NetLogo (MIT Press) Kindle Edition, The MIT Press.*

Additional references (at least 2):

1. Eastman, C. et al., 2011. *BIM Handbook: a guide to building information modeling for owners, managers, designers, engineers and contractors,* John Wiley & Sons.
2. Cheng Min-Yuan, Tsai Hsing-Chih, and Lai Yun-Yan (2009), "Construction management process reengineering performance measurements", Automation in Construction, Vol. 18, No.2, pp. 183-193.
3. Tsai, M., 2017. Using agent-based simulation approach for estimating the efficiency of the building project design team. In Civil, Architecture and Environmental Engineering, Volume 1. CRC Press/Balkema P.O. Box 11320, 2301 EH Leiden, The Netherlands: CRC Press/Balkema, pp. 139–144.
4. Cheng, J.C.P. &Gan, V.J.L., 2013. Integrating Agent-Based Human Behavior Simulation with Building Information Modeling for Building Design. *International Journal of Engineering and Technology*, pp.473–477.

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: 09-Mar-2018

Our Ref. No: VTU/Civil/Specialized Course/ 2017-18 (Even) /	Your Ref. No: 218

Dr. E. B. Perumal Pillai
Professor & Head.

To:

The Director Academics
Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology.

Sir,

Sub: Seeking permission to offer Specialized Course - Reg

The Department of Civil Engineering is organizing an International Conference on "**Global Environmental Changes and Sustainable Development in Civil Engineering - ICGECSD18**". Two experts Prof. Dr. Deepak Tirumishi Jada from Linton University College, Malaysia and Prof. Dr. William (Ming Hsiu) Tsai from Tamkang University, Taiwan have accepted to come and deliver key note speeches. They have been arranged by the Directorate of International Relations. It is proposed to utilize their services for offering Institute / Higher Educational learning Course Category for 2015-19 and 2016-20 batches of Undergraduate students and also for 2016-18 batch of Post-graduate students. Oral acceptance have been obtained by the Office of International Relations. The details of the courses are enclosed.

Name of the Professor	Prof. Dr. Deepak Tirumishi Jada	Prof. Dr. William (Ming Hsiu) Tsai
University and Country	Linton University College, Malaysia	Tamkang University, Taiwan
Title of the Course	Professional skills for Civil Engineering	Construction management by using BIM, Virtual and Augmented reality
Department	Civil Engineering	Civil Engineering
Dates of Course	04 - 06 of April 2018.	04 - 06 of April 2018.
Total No. of Hours	16	15
Course Contents	Attached	Attached

It is requested that approval may kindly be accorded to offer the above two courses for our students so that they can earn one credit for each of the courses.

09/03/18

HOD / CIVIL

- Short course (1/2 credit) as normal procedure -
9.3.18

400 Feet Outer Ring Road, Avadi,
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Website :www.veltechuniv.edu.in

SNo	Stu_Id	Stu_Name	Stu_Branch	Stu_Test_SubjectCode	Stu_Test_SubjectName	Stu_Subject_PassFail	Stu_Grade
1	VTU8350	VIJAY KUMAR G	CIVIL	1157CE909	Construction Management by using BIM, Virtual and Augmented Reality	Pass	S
2	VTU6566	NIKKIL R	CIVIL	1157CE909	Construction Management by using BIM, Virtual and Augmented Reality	Pass	S
3	VTU6439	ARAVINDAN M	CIVIL	1157CE909	Construction Management by using BIM, Virtual and Augmented Reality	Pass	A
4	VTU6104	LAWRENCE BENEDICT CARVIN	CIVIL	1157CE909	Construction Management by using BIM, Virtual and Augmented Reality	Pass	A
5	VTU6109	MADHANAGOPAL.A	CIVIL	1157CE909	Construction Management by using BIM, Virtual and Augmented Reality	Pass	A

6	VTU6111	SUBASH V	CIVIL	1157CE909	Construction Management by using BIM, Virtual and Augmented Reality	Pass	A
7	VTU6189	NARESH KUMAR.C	CIVIL	1157CE909	Construction Management by using BIM, Virtual and Augmented Reality	Pass	S
8	VTU6204	PREETHIKA.P	CIVIL	1157CE909	Construction Management by using BIM, Virtual and Augmented Reality	Pass	S
9	VTU4902	AJITH KUMAR.V	CIVIL	1157CE909	Construction Management by using BIM, Virtual and Augmented Reality	Pass	A
10	VTU5867	RAKSHA.S.G	CIVIL	1157CE909	Construction Management by using BIM, Virtual and Augmented Reality	Pass	S
11	VTU5917	ABIRAMI.P	CIVIL	1157CE909	Construction Management by using BIM, Virtual and Augmented Reality	Pass	S

12	VTU8139	MAHESWARAN S	CIVIL	1157CE909	Construction Management by using BIM, Virtual and Augmented Reality	Pass	A
13	VTU6587	HEMNATH G	CIVIL	1157CE909	Construction Management by using BIM, Virtual and Augmented Reality	Pass	S
14	VTU6659	MANSHIKA VICARIO D. SANGMA	CIVIL	1157CE909	Construction Management by using BIM, Virtual and Augmented Reality	Pass	A
15	VTU6675	SHUSHREE CHINMAYEE DWIBEDY	CIVIL	1157CE909	Construction Management by using BIM, Virtual and Augmented Reality	Pass	A
16	VTU6618	YASWANT KUMAR L	CIVIL	1157CE909	Construction Management by using BIM, Virtual and Augmented Reality	Pass	S
17	VTU6711	SAMU MEERAN.M.I	CIVIL	1157CE909	Construction Management by using BIM, Virtual and Augmented Reality	Pass	S

18	VTU8455	DIKSHA SAMUEL	CIVIL	1157CE909	Construction Management by using BIM, Virtual and Augmented Reality	Pass	S
19	VTU8502	JAYESH J	CIVIL	1157CE909	Construction Management by using BIM, Virtual and Augmented Reality	Pass	B
20	VTU8565	AVARIN MARTINA K MARAK	CIVIL	1157CE909	Construction Management by using BIM, Virtual and Augmented Reality	Pass	S
21	VTU7973	HARITHA R	CIVIL	1157CE909	Construction Management by using BIM, Virtual and Augmented Reality	Pass	A
22	VTU7952	SAYED YAKUB PASHA	CIVIL	1157CE909	Construction Management by using BIM, Virtual and Augmented Reality	Pass	A
23	VTU7784	B PRASHANTH	CIVIL	1157CE909	Construction Management by using BIM, Virtual and Augmented Reality	Pass	A

24	VTU7169	MEDICHARLA RAVINDRA SIVA SAI KUMAR	CIVIL	1157CE909	Construction Management by using BIM, Virtual and Augmented Reality	Pass	B
25	VTU6839	GALI CHANDAN RAYAL	CIVIL	1157CE909	Construction Management by using BIM, Virtual and Augmented Reality	Pass	A
26	VTU6841	THIRUMANISAMY.S	CIVIL	1157CE909	Construction Management by using BIM, Virtual and Augmented Reality	Pass	S
27	VTU6845	G ANAND BABU	CIVIL	1157CE909	Construction Management by using BIM, Virtual and Augmented Reality	Pass	B
28	VTU6852	SELVARATINAM A M	CIVIL	1157CE909	Construction Management by using BIM, Virtual and Augmented Reality	Pass	S
29	VTU6856	SUDHARSAN S	CIVIL	1157CE909	Construction Management by using BIM, Virtual and Augmented Reality	Pass	B

30	VTU6858	KARTHIKEYAN M	CIVIL	1157CE909	Construction Management by using BIM, Virtual and Augmented Reality	Pass	A
31	VTU6859	HARI PRASAD S A	CIVIL	1157CE909	Construction Management by using BIM, Virtual and Augmented Reality	Pass	A
32	VTU6865	MOHAMED WASIF K	CIVIL	1157CE909	Construction Management by using BIM, Virtual and Augmented Reality	Pass	A
33	VTU6850	VIGNESH A	CIVIL(CIVIONICS)	1157CE909	Construction Management by using BIM, Virtual and Augmented Reality	Pass	A

DINT/04-18/03

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

Our Ref. No: 2018/VF 82	**Your Ref. No:**

Submitted for the Approval:

Name of the Professor: Prof. Dr. Ming Hsiu Tsai
University & Country : Tamkang University, Taiwan
Course Title : Construction Management by using BIM, Virtual and Augmented reality
Department : Civil Engineering
Students : 30
Program date : 05.04.2018 to 07.04.2018

Sl.No	Description	Amount in INR
1	Course Honorarium (Rs.3000 * 15 Hrs) **(Net Amount & Tax Free)**	45000
2	Visa Processing Charges -2700 NTD (1 TWD= 2.2325 INR a on 22.03.2018)	6027
	Total	**51027**

(Rupees fifty one thousand and twenty seven only)

In this regard, according to the request of Professor, I request your approval for transferring the amount to the following Indian account,

Name: Vikram Kumar

Acc. No: 380401141000610

Bank: Vijaya Bank

Branch: Vel Tech University

IFSC Code: VIJB0003804

PAN Number: CCAPK5309L

Pl 4/03-04-18

Thank You,

03/04/18.

S. Sivaperumal

Dr. S. Sivaperumal
Director International Relations

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

Vel Tech

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

Form.No. 12.1B **0938**

AUTHORISATION FOR ONLINE PAYMENT 25001 TO 1 LAKH

Date 03042018

From Dept/Division:- Intl. Relations

Nature of Expenses G.Code:-

Description:- Course Honorarium to Prof. Ming Hsiu Tsai, Tamkang university, Taiwan.

Date of Event/Activities:-

Expected Date of Bill Closer:-

Faculty/Staff Responsible:- T. Ramesh kumar.

Mobile No. 8754484372

Form Received Date :

P.O.No./Bill No./Letter Ref. No.

P.O./Bill/Letter date :

Payee Name : VIKRAM KUMAR.

PAN-NO : CCAPK5309L.

A/C No. : 38040114000610

Bank : VIJAYA BANK.

Branch : VELTECH.

IFSC Code : VIJB0003804

Amount Payable Rs. 51027.

(in words) Fifty one thousand and twenty seven only.

Payment Processed by
Name :
Signature : T. Ramesh kumar

Payment Recommended by
Sign & Seal :

03/04/18.

Dr. S. Sivaperumal
Director International Relations

Payment Authorized by
Sign & Seal :

Form No. 12.1B

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

314

淡江大學
Tamkang University

Certificate of TEEP@AsiaPlus Internship Program

This is to certify that

Mr. Sankar Sidagam

has completed TEEP@AsiaPlus Internship Program
from August 1st, 2018 to November 30th, 2018
in the College of Engineering, Tamkang University, Tamsui, Taiwan.

Prof. Hui-Huang Hsu
Dean, College of Engineering

淡江大學
Tamkang University

Certificate of TEEP@AsiaPlus Internship Program

This is to certify that

Mr. Chandrashekhar Tasupalli

has completed TEEP@AsiaPlus Internship Program
from August 1st, 2018 to November 30th, 2018
in the College of Engineering, Tamkang University, Tamsui, Taiwan.

Prof. Hui-Huang Hsu
Dean, College of Engineering

淡江大學
Tamkang University

Certificate of TEEP@AsiaPlus Internship Program

This is to certify that

Mr. Vivek Jabaraj Joseph

has completed TEEP@AsiaPlus Internship Program
from August 1st, 2018 to November 30th, 2018
in the College of Engineering, Tamkang University, Tamsui, Taiwan.

Prof. Hui-Huang Hsu
Dean, College of Engineering

淡江大學
Tamkang University

Certificate of TEEP@AsiaPlus Internship Program

This is to certify that

Ms. Roja Lakshmi Perla

has completed TEEP@AsiaPlus Internship Program
from August 1st, 2018 to November 30th, 2018
in the College of Engineering, Tamkang University, Tamsui, Taiwan.

Prof. Hui-Huang Hsu
Dean, College of Engineering

TAMKANG UNIVERSITY

2019 TKU DEPARTMENT OF ELECTRICAL AND COMPUTING

CERTIFICATE OF COMPLETION

*This is to certify that*_**OKRAM KELPER SINGH (VTU6434)** *belonging to AY* **2015-19** *pursuing* **B.Tech.** *in* **Electrical& Electronics Engineering** *at* **Vel Tech Dr.RR & Dr.SR R&D Institute of science and technology** *has successfully completed his* FINAL YEAR PROJECT *on* **"DIGITAL LOW-DROPOUT REGULATOR"** *under the guidance of* **Professor Wei-Bin Yang, Tamkang University.**

Signature of the Head of the Department

Prof. Wei-Bin Yang

Professor

Wei-Bin Yang

Associate

海江大學
電機工程學系
工學院

Department of Computer Science & Information Engineering
Tamkang University
Tamsui, Taipei county, Taiwan
Tel : +886-2-26215656 Ext.2616
Fax: +886-2-26209749

June 10, 2019

TO WHOM IT MAY CONCERN

This is to certify that **Mr. Badigineni Mukesh Kumar, Reg.no: - 15UEEC0013** student of 'BE Electronics and Communication Engineering' at '**Veltech, Chennai'** has attended 2 courses from Feb 18, 2019 to June 10, 2019 in college of Engineering, Tamkang university, Taiwan. The following are student course details.

Name	Badigineni Mukesh Kumar
ID.no: -	4074115586
Institution	Tamkang University, Taiwan

S.no: -	Semester	Course Description
1	8	Wireless Sensor Network's and IOT
2	8	Smart Wearable Learning Device (Major Project)

Sincerely,

Prof. Chih-Yung Chang
Dept. Computer Science and Information Engineering
Tamkang University
cychang@mail.tku.edu.tw



Certificate of Internship

This is to certify that

Mr.Hitesh Kumar Rana

Has completed his Exchange Program from Feb. 21,2019 to June 21,2019

in the Department of Mechanical and Electromechanical Engineering,

Tamkang University, Taiwan.

Professor and Chair, Yin-Tien Wang

June 20,2019

Certificate of Internship

This is to certify that

Mr.Arindam Dutta

Has completed his Exchange Program from Feb. 21,2019 to June 21,2019

n the Department of Mechanical and Electromechanical Engineering,

Tamkang University, Taiwan.

Professor and Chair, Yin-Tien Wang

June 20,2019

Certificate of Internship

This is to certify that

Mr. PAVAN KUMAR KUTTUM

participated in the **"2017-2018 Research Internship Program"**, a short-term professional internship program launched by the Tamkang University via the "University Development Project" (校務發展計畫「境外學生來訪研究」), and fulfills the internship requirements of the **Unmanned Aerial Vehicles Laboratory** at the **Department of Aerospace Engineering** in the **Tamkang University**.

The program details are as follow:

Research Topic:	Structure and Design in the Unmanned Aerial Vehicles
Hosting Unit:	Department of Aerospace Engineering, Tamkang University
Principal Investigator:	Prof. Fu-Yuen Hsiao
Program Duration:	2019/02/18 - 2019/06/25

June 25th, 2019

陳步偉

陳步偉 CHEN, Pu-Woei (Ph.D.)

Chair, Associate Professor
Department of Aerospace Engineering
Tamkang University

Tamsui, Taiwan 251, Republic of China Tel : (886) 2-2621-5656 ext. 2617 Fax : (886) 2-26209746

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: 14 NOV 2018

Admission Letter

To
Mr. Tsai I-I,
Student, Tamkang University, Taiwan.

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Deemed to be University u/s 3 of UGC Act, Chennai is pleased to offer Admission to you for undertaking a Short Term Student Mobility under the guidance of its Faculty as a non – degree seeking Academic Exchange Student.

Further details are as given below:

Student's Affiliation	Tamkang University, Taiwan Studying: Bachelors in Computer Science and Information Engineering (3rd Year)
Proposed Period	21.01.2019 to 11.02.2019
Program details	Short Term Student Mobility Experience at Vel Tech (in the area of Unmanned Aerial Vehicle)
Passport Details	Passport No.: 311537840; Date of Birth: 16.10.1997 Nationality: Republic of China.
Salary / Stipend	No salary/stipend will be paid by Vel Tech.
Other Conditions	1. Vel Tech will waive the admission and tuition fees. 2. You will meet all the expenses related to travel, insurance, boarding & lodging at Chennai, incidentals, etc.
Contact Person at Vel Tech	Dr. S. Sivaperumal, Director International Relations. E Mail: dint@veltech.edu.in

(Dr.E.Kannan)
Registrar

Prof. Dr. E. Kannan
Registrar

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

No.42, Avadi - Vel Tech Road, Avadi,
Chennai, Tamil Nadu, Pincode - 600 062.
Toll Free: 1800 3070 6949
Landline: +91 44 2684 0262 / 2684 0605
Email : vtu@veltech.edu.in
Website: www.veltech.edu.in

Ref no: LI/7000

45

簽證 / VISAS

वीज़ा VISA भारत गणराज्य REPUBLIC OF INDIA VK 8479145

VISA

VK8479145



उपनाम और नाम /Surname and Given Name
TSAI I I

पासपोर्ट संख्या /Passport No
311537840

वीज़ा टाईप /Visa Type
S-6

प्रवेशों की संख्या/No Of Entries
MULTIPLE

जारी करने की तिथि /Date of Issue
11/01/2019

समाप्ति की तिथि /Date of Expiry(DD/MM/YYYY)
15/02/2019



विशेषपृष्ठांकन /Special Endorsement
VEL TECH UNIVERSITY, TAMIL NADU

NOT VALID FOR PROHIBITED/ RESTRICTED AND CANTONMENT AREAS

प्रयोजन बदलने की अनुमति नहीं है / Change of Purpose Not Allowed.

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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: 14 NOV 2018

Admission Letter

To
Mr. Hsu Kuang-Chun,
Student, Tamkang University, Taiwan.

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Deemed to be University u/s 3 of UGC Act, Chennai is pleased to offer Admission to you for undertaking a Short Term Student Mobility under the guidance of its Faculty as a non – degree seeking Academic Exchange Student.

Further details are as given below:

Student's Affiliation	Tamkang University, Taiwan Studying: Bachelors in Aerospace Engineering (3rd Year)
Proposed Period	21.01.2019 to 11.02.2019
Program details	Short Term Student Mobility Experience at Vel Tech (in the area of Unmanned Aerial Vehicle)
Passport Details	Passport No.: 313468860; Date of Birth: 02.03.1998 Nationality: Republic of China.
Salary / Stipend	No salary/stipend will be paid by Vel Tech.
Other Conditions	1. Vel Tech will waive the admission and tuition fees. 2. You will meet all the expenses related to travel, insurance, boarding & lodging at Chennai, incidentals, etc.
Contact Person at Vel Tech	Dr. S. Sivaperumal, Director International Relations. E Mail: dint@veltech.edu.in

(Dr.E.Kannan)
Registrar

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

No.42, Avadi - Vel Tech Road, Avadi,
Chennai, Tamil Nadu, Pincode - 600 062.
Toll Free: 1800 3070 6949
Landline: +91 44 2684 0262 / 2684 0605
Email : vtu@veltech.edu.in
Website: www.veltech.edu.in

Ref no: LI/7000

45

簽證 / VISAS

वीज़ा VISA

भारत गणराज्य REPUBLIC OF INDIA VK 8479195

VISA

VK8479195

उपनाम और नाम /Surname and Given Name

HSU KUANG CHUN

पासपोर्ट संख्या /Passport No
313468860

वीज़ा टाइप /Visa Type
S-6

प्रवेशों की संख्या/No Of Entries
MULTIPLE

जारी करने की तिथि /Date of Issue
14/01/2019

समाप्ति की तिथि /Date of Expiry(DD/MM/YYYY)
15/02/2019



विशेषपृष्ठांकन /Special Endorsement

VEL TECH UNIVERSITY, TAMIL NADU

NOT VALID FOR PROHIBITED/ RESTRICTED AND CANTONMENT AREAS

प्रयोजन बदलने की अनुमति नहीं है / Change of Purpose Not Allowed.



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AMENDMENTS AND ENDORSEMENTS

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AMENDMENTS AND ENDORSEMENTS

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21 JAN 2019

ARRIVAL

ANNANTARPORT, CHENNAI

A012

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: 14 NOV 2018

Admission Letter

To
Mr. Lin Wei-Han,
Student, Tamkang University, Taiwan.

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Deemed to be University u/s 3 of UGC Act, Chennai is pleased to offer Admission to you for undertaking a Short Term Student Mobility under the guidance of its Faculty as a non – degree seeking Academic Exchange Student.

Further details are as given below:

Student's Affiliation	Tamkang University, Taiwan Studying: Bachelors in Mechanical and Electromechanical Engineering (4th Year)
Proposed Period	21.01.2019 to 11.02.2019
Program details	Short Term Student Mobility Experience at Vel Tech (in the area of Unmanned Aerial Vehicle)
Passport Details	Passport No.: 351166871; Date of Birth: 01.11.1996 Nationality: Republic of China.
Salary / Stipend	No salary/stipend will be paid by Vel Tech.
Other Conditions	1. Vel Tech will waive the admission and tuition fees. 2. You will meet all the expenses related to travel, insurance, boarding & lodging at Chennai, incidentals, etc.
Contact Person at Vel Tech	Dr. S. Sivaperumal, Director International Relations. E Mail: dint@veltech.edu.in

(Dr.E.Kannan)
Registrar

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

No.42, Avadi - Vel Tech Road, Avadi,
Chennai, Tamil Nadu, Pincode - 600 062.
Toll Free: 1800 3070 6949
Landline: +91 44 2684 0262 / 2684 0605
Email : vtu@veltech.edu.in
Website: www.veltech.edu.in

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VISAS / 簽證

वीज़ा VISA भारत गणराज्य REPUBLIC OF INDIA VK 8479144

VISA

VK8479144

उपनाम और नाम /Surname and Given Name
LIN WEI HAN

पासपोर्टसंख्या /Passport No
351166871

वीजा टाइप /Visa Type
S-6

प्रवेशों की संख्या/No Of Entries
MULTIPLE

जारी करने की तिथि /Date of Issue
11/01/2019

समाप्ति की तिथि/Date of Expiry(DD/MM/YYYY)
15/02/2019

विशेषपृष्ठांकन /Special Endorsement
VEL TECH UNIVERSITY, TAMIL NADU

NOT VALID FOR PROHIBITED/ RESTRICTED AND CANTONMENT AREAS

प्रयोजन बदलने की अनुमति नहीं है / Change of Purpose Not Allowed.

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AMENDMENTS AND ENDORSEMENTS

簽 證 / VISAS



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: 14 NOV 2018

Admission Letter

To
Mr. Chen Cheng-Bin,
Student, Tamkang University, Taiwan.

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Deemed to be University u/s 3 of UGC Act, Chennai is pleased to offer Admission to you for undertaking a Short Term Student Mobility under the guidance of its Faculty as a non – degree seeking Academic Exchange Student.

Further details are as given below:

Student's Affiliation	Tamkang University, Taiwan Studying: Bachelors in Chemical and Materials Engineering (2nd year)
Proposed Period	21.01.2019 to 11.02.2019
Program details	Short Term Student Mobility Experience at Vel Tech (in the area of Unmanned Aerial Vehicle)
Passport Details	Passport No.: 315358159; Date of Birth: 29.11.1998 Nationality: Republic of China.
Salary / Stipend	No salary/stipend will be paid by Vel Tech.
Other Conditions	1. Vel Tech will waive the admission and tuition fees. 2. You will meet all the expenses related to travel, insurance, boarding & lodging at Chennai, incidentals, etc.
Contact Person at Vel Tech	Dr. S. Sivaperumal, Director International Relations. E Mail: dint@veltech.edu.in

(Dr.E.Kannan)
Registrar

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

No.42, Avadi - Vel Tech Road, Avadi,
Chennai, Tamil Nadu, Pincode - 600 062.
Toll Free: 1800 3070 6949
Landline: +91 44 2684 0262 / 2684 0605
Email : vtu@veltech.edu.in
Website: www.veltech.edu.in

Ref no: LI/7000

45

VISAS / 簽證

VISA भारत गणराज्य REPUBLIC OF INDIA VK 8479143

VISA

VK8479143

उपनाम और नाम /Surname and Given Name
CHEN CHENG BIN

पासपोर्ट संख्या /Passport No
315358159

वीजा टाईप /Visa Type
S-6

प्रवेशों की संख्या/No Of Entries
MULTIPLE

जारी करने की तिथि /Date of Issue
11/01/2019

समाप्ति की तिथि /Date of Expiry(DD/MM/YYYY)
15/02/2019

विशेषपृष्ठांकन /Special Endorsement
VEL TECH UNIVERSITY, TAMIL NADU

NOT VALID FOR PROHIBITED/ RESTRICTED AND CANTONMENT AREAS

प्रयोजन बदलने की अनुमति नहीं है / Change of Purpose Not Allowed.

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ROC (TAIWAN)
JUL 30. 2017
DEPARTED


REPUBLIC OF KOREA
ADMITTED
2017 JUL 3 0
UNTIL 2017 OCT 2 8
INCHEON AIRPORT 048


ROC (TAIWAN)
AUG 05. 2017
ADMITTED


ROC (TAIWAN)
FEB 21. 2018
ADMITTED


FEB 09. 2018


IMMIGRATION
A2-012
21 JAN 2019
ARRIVAL
CHENNAI INTL AIRPORT

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: 27 APR 2018

Admission Letter

To
Mr. Chih-Yu Jen,
Student, Tamkang University, Taiwan.

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Deemed to be University u/s 3 of UGC Act, Chennai is pleased to offer Admission to you for undertaking a Course Related Project Work under the guidance of its Faculty as a non – degree seeking Academic Exchange Student.

Further details are as given below:

Student's Affiliation	Tamkang University, Taiwan Studying: Masters in Mechanical Engineering- MEMS.
Proposed Period	01.07.2018 to 30.11.2018
Program details	Course Related Project Work at Department of Mechanical Engineering at Vel Tech campus.
Passport Details	Passport No.: 309352462; Expiry Date: 28.05.2019; Nationality: Republic of China.
Salary / Stipend	No salary / stipend will be paid by Vel Tech.
Other Conditions	1. Vel Tech will waive the admission, tuition and accommodation fees. 2. You will meet all the expenses related to travel, insurance, boarding & lodging at Chennai, incidentals, etc. 3. You will pay to Vel Tech INR 6000 per month for food expenses, Local Transport, Wi- Fi etc. The entire amount for the full duration shall be paid immediately on arrival. A part calendar month will be considered as a full month for charging purposes.
Contact Person at Vel Tech	Dr. S. Sivaperumal, Director International Relations. E Mail: dint@veltech.edu.in

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VISAS / 證 / 簽

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वीज़ा VISA भारत गणराज्य REPUBLIC OF INDIA VK 8472062

VISA VK8472062

उपनाम और नाम /Surname and Given Name

JEN CHIH YU

पासपोर्ट संख्या /Passport No

30935246Z

जारी करने की तिथि /Date of Issue

15/06/2018



वीज़ा टाइप /Visa Type

S-6

प्रवेशों की संख्या/No Of Entries

SINGLE

समाप्ति की तिथि /Date of Expiry(DD/MM/YYYY)

01/12/2018

विशेषपृष्ठांकन /Special Endorsement

COURSE WORK AT VEL TECH RANGARAJAN DR. SAGUNTHALA R AND D INST OF SCIENCE AND TECH, TAMIL NADU,INDIA

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प्रयोजन बदलने की अनुमति नहीं है / Change of Purpose Not Allowed.

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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: 12 NOV 2018

Certificate

This is to certify that **Mr. Chih-Yu Jen** pursuing Masters in Mechanical Engineering- MEMS at Tamkang University, Taiwan, has successfully completed his Project Work Titled "3D Printing of Flapping Wing Vehicle Mechanisms and Measurement of Aerodynamic Forces" during **1st July 2018 to 13th November 2018** under the guidance of Prof. Balasubramanian Esakki at Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Avadi, Chennai.

He was sincere, dedicated and his work was highly commendable.

We wish you him a great success in future endeavors.

Faculty Guide 12/Nov/2018

Director International Relations

Dr. S. Sivaperumal
Director International Relations
Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
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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: 27 APR 2018

Admission Letter

To
Mr. Wei-Chen Wang,
Student, Tamkang University, Taiwan.

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Deemed to be University u/s 3 of UGC Act, Chennai is pleased to offer Admission to you for undertaking a Course Related Project Work under the guidance of its Faculty as a non – degree seeking Academic Exchange Student.

Further details are as given below:

Student's Affiliation	Tamkang University, Taiwan Studying: Masters in Mechanical Engineering- MEMS.
Proposed Period	01.07.2018 to 30.11.2018
Program details	Course Related Project Work at Department of Mechanical Engineering at Vel Tech campus.
Passport Details	Passport No.: 313483304; Expiry Date: 15.06.2021; Nationality: Republic of China.
Salary / Stipend	No salary / stipend will be paid by Vel Tech.
Other Conditions	1. Vel Tech will waive the admission, tuition and accommodation fees. 2. You will meet all the expenses related to travel, insurance, boarding & lodging at Chennai, incidentals, etc. 3. You will pay to Vel Tech INR 6000 per month for food expenses, Local Transport, Wi- Fi etc. The entire amount for the full duration shall be paid immediately on arrival. A part calendar month will be considered as a full month for charging purposes.
Contact Person at Vel Tech	Dr. S. Sivaperumal, Director International Relations. E Mail: dint@veltech.edu.in

(Dr.E.Kannan)
Registrar

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Ref no: L3/10000

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VISA

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उपनाम और नाम /Surname and Given Name
WANG WEI CHEN

पासपोर्ट संख्या /Passport No
313483304

वीज़ा टाइप /Visa Type
S-6

प्रवेशों की संख्या/No Of Entries
SINGLE

जारी करने की तिथि /Date of Issue
15/06/2018

समाप्ति की तिथि /Date of Expiry(DD/MM/YYYY)
01/12/2018

विशेषपृष्ठांकन /Special Endorsement
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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: 12 NOV 2018

Certificate

This is to certify that **Mr. Wei Chen Wang** pursuing Masters in Mechanical Engineering-MEMS at Tamkang University, Taiwan, has successfully completed his Project Work Titled "3D Printing of Flapping Wing Vehicle Mechanisms and Measurement of Aerodynamic Forces" during **1st July 2018 to 13th November 2018** under the guidance of Prof. Balasubramanian Esakki at Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Avadi, Chennai.

He was sincere, dedicated and his work was highly commendable.

We wish you him a great success in future endeavors.

Faculty Guide

12/Nov/2018

Director International Relations

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Vel Tech
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School of Electrical and Communication

Department of Electronics and Communication Engineering

Specialized one credit course on

"Fundamentals of Sensors and Actuators"

(1157EC920)

by

Prof. Dr. Lung- Jieh Yang

Tamkang University, Taiwan

Held on

Date: January 28 to February 1, 2019

CURRICULUM VITAE



1. *Personal data*

- Lung-Jieh Yang
- Nationality: TAIWAN, R.O.C.
- Sex：Male
- DOB: Aug. 07, 1965
- Corresponding Address: Department of Mechanical and Electro-Mechanical Engineering, TamkangUniversity, #151, Ying-Chuan Rd., Tamsui, 25137, Taipei, TAIWAN, R.O.C.
- Phone no.: +886-2-2621-5656 ext 2768 or +886-932-159193
- Fax no.： +886-2-2620-9750
- E-mail: Ljyang@mail.tku.edu.tw

2. *Education*

- Ph.D., Institute of Applied Mechanics, National Taiwan University, TAIWAN, R.O.C., Dec., 1996
- M.S., Institute of Mechanical Engineering, Tamkang University, TAIWAN, R.O.C., June, 1991
- B.S., Department of Aerospace Engineering, National Cheng-Kung University, TAIWAN, R.O.C., June, 1987

3. *Current position and relevant experience*

Current position： Professor, Department of Mechanical and Electro-Mechanical Engineering, Tamkang University, TAIWAN (since Aug., 2012)

Relevant experience：

- Editor-in-Chief, Tamkang Journal of Science and Engineering, ISSN 1560-6686 (since Aug. 2011)
- Adjoint Research Fellow, National Applied Research Lab, TAIWAN (Aug. 2008~Aug. 2011)
- Professor, Department of Mechanical and Electro-Mechanical Engineering, Tamkang University, TAIWAN (since Aug., 2007)
- Director, Incubation Center, Tamkang University (Aug. 2008~Jul. 2009)
- Director, Instrument and Experiment Center, Tamkang University (Aug. 2003~Jul. 2008)
- Associate Professor, Department of Mechanical and Electro-Mechanical Engineering, Tamkang University, TAIWAN (Aug., 2002~Jul., 2006)

- Assistant Professor, Department of Mechanical Engineering, Tamkang University, TAIWAN (Aug., 1997~Jul., 2002)
- Visiting Associate, Department of Electrical Engineering, California Institute of Technology, USA (Sep., 2000~Aug., 2001)

4. ***Fields of specialty (limit to fields related to research)***
   - MEMS (micro electro mechanical systems)
   - Micro Aerial Vehicles

5. ***Major awards and honors***
   - IEEE *International Conference on Nano/Micro Engineered and Molecular Systems* (IEEE NEMS), TPC members: 2009-2012
   - Co-Chair, The 10th International Heat Pipe Symposium, Nov. 6-9, 2011.
   - Tamkang Research Awards: 1998, 2000, 2002-2012
   - Best Student Paper Award (Adviser), 2009 International Conference on Mechatronic System of Integration and Application, Tainan, Dec. 4-5, 2009.
   - Best Paper Award, The 10th Conference on Nano Engineering and Micro System Technology of Taiwan, Nov. 30-Dec. 1, 2006.
   - Best Student Paper Award (Adviser), The Third Asia-Pacific Conference On Transducers (APCOT-2006), Singapore, June 25-28, 2006.
   - NSC Research Awards: 1998.

Significant project-related publications in the past five years, including: journal papers, patents, periodical articles, or books, etc.

Journal papers:

1. Lung-Jieh Yang, Chung-Yu Kao, and Chin-Kwang Huang, 2012, "Development of flapping ornithopters by precision injection molding," ***Applied Mechanics and Materials***, v. 163, pp. 125-132.
2. Lung-Jieh Yang, A-Fu Kuo, and Cheng-Kuei Hsu, 2012, "Wing stiffness on light flapping micro aerial vehicles," ***Journal of Aircraft***, v. 49, n. 2, pp. 423-431.Lung-Jieh Yang and Tzu-Yuan Lin, 2011, "A PDMS-based thermo-pneumatic micropump with parylene inner walls," ***Microelectronic Engineering***, v. 88, n. 8, pp. 1894-1897.
3. Lung-Jieh Yang, 2010, "On gas-permeation in PDMS," ***Journal of Micromechanics and Microengineering***, v. 20, n. 11, 115033.
4. Yung-Chiang Chung, Li-Wei Lai, Lung-Jieh Yang, and Wei-Jie Liao, 2010 "Comparison of different metal film thicknesses of COC-substrate polymerase chain reaction chips with single-side and double-side heaters,"***Journal of Micro/Nanolithography, MEMS, and MOEMS***, v. 9 (3), 031006.

5. Yung-Chiang Chung,Guo-Yuan Hess, Fu-Wen Yeh, Hsieh-Cheng Han,Chien-Yuan Chen, Ching-Jiun Lee, Horn-Jiunn Sheen, and Lung-Jieh Yang, 2010, "Fabrication and testing of surface ratchets primed with hydrophobic parylene and hexamethyldisilazane for transporting droplets," ***Journal of Micro/Nanolithography, MEMS, and MOEMS***, v. 9 (1), 013035.
6. Lung-Jieh Yang, Cheng-Kuei Hsu, Hsieh-Cheng Han, and Jr-Ming Miao, 2009, "A light flapping micro-aerial-vehicle using electrical discharge wire cutting technique,"***Journal of Aircraft,*** v. 46, n. 6, pp. 1866-1874.
7. Lung-Jieh Yang, Cheng-Kuei Hsu, Chun-Yu Kao, Fu-Yuen Hsiao, and Chao-Kung Feng, 2009, "Weight reduction of flapping micro aerial vehicles using electrical discharge wire machining," ***Journal of Aeronautics, Astronautics and Aviations-Series A***, v. 41, n. 3, pp. 165-172.
8. Lung-Jieh Yang, 2009, "Gas permeation in PDMS in-situ monitoring by silicon pressure sensors," ***Advanced Materials Research***, v. 74, pp. 113-116.
9. P.-L. Lu, C.-L. Fan, L.-J. Yang, C.-W. Lin, F.-S. Jaw, 2009, "Novel fabrication of full parylene-isolated neuroprobes,"***Journal of Bionanoscience***, v. 3, n. 1, pp. 58-60.
10. Yu-Cheng Ou, Chih-Wen Hsu, Lung-Jieh Yang,Hsieh-Cheng Han, Yi-Wen Liu, and Chien-Yuan Chen, 2008, "Attachment of tumor cells to the micropatterns of glutaraldehyde (GA)-crosslinked gelatin," ***Sensors and Materials***, v. 20, n. 8, pp. 435-446.
11. Ling-ChihChien, Nan-Fu Chiu, Adam Shih-Yuan Lee, Lung-JiehYang,Yao-Joe Yang, Kuang-Chong Wu, Chih-Kung Lee, and Chii-Wann Lin, 2007, "Electrochemical detection of high-sensitivity C-reactive protein based on biomimic design of electroactive nanoassembly multilayers,"***Journal of Bionanoscience***, v. 1, n. 1, pp. 44–50.
12. Lung-Jieh Yang, Hsin-Hsiung Wang, Po-Chiang Yang, Y.-C. Chung, and T.-S. Shen, 2007, "New packaging method using PDMS for piezoresistive pressure sensors," ***Sensors and Materials***, v. 19, n. 7, pp. 391-402.
13. Lung-Jieh Yang, C.-K. Hsu, J.-Y. Ho, and C.-K. Feng, 2007, "Flapping wings with PVDF sensors to modify the aerodynamic forces of a micro aerial vehicle," ***Sensors and Actuators A: Physical***, v. 139, pp. 95-103.
14. Lung-Jieh Yang, K.-C. Ko, and J.-M. Wang, 2007, "A circular microchannel integrated with embedded spiral electrodes using for fluid transportation,"***Sensors and Actuators A: Physical***, v. 139, pp. 172-177.
15. Yan-You Lin, Chi-Wann Lin, Lung-Jieh Yang, and An-Bang Wang, 2007, "Micro-viscometer based on electrowetting on dielectric," ***ElectrochimicaActa***, **v. 52, pp. 2876-2883.**
16. Lung-Jieh Yang, C.-K. Hsu, C.-K. Feng, J.-Y. Ho, G.-H. Feng, and H.-M. Shih, 2007, "A flapping MAV with PVDF-parylene composite skin," ***Transactions of the Aeronautical and Astronautical Society of the Republic of China***, v. 39, n. 3, pp. 195-202.

17. Lung-Jieh Yang and Kuan-Chun Liu, 2007, "Surface tension-driven microvalves with large rotating stroke," ***Tamkang Journal of Science and Engineering***, v. 10, n. 2, pp. 141-146.
18. Lung-Jieh Yang, Hsin-Hsiung Wang, Jiun-Min Wang, Kuan-Chun Liu and Kai-Chung Ko, 2006, "Buckled-type valves integrated by parylene micro-tubes," ***Sensors and Actuators A: Physical***, Vol. 130-131, pp. 241-246.
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20. C. L. Dai, H. J. Peng, M. C. Liu, C. C. Wu, H. M. Hsu, L. J. Yang, 2005, "A micromachined microwave switch fabricated by the complementary metal-oxide semiconductor post-process of etching silicon dioxide," ***Japanese Journal of Applied Physics***, Vol. 44, No. 9A, pp. 6804-6809.
21. Lung-Jieh Yang,Hsin-Hsiung Wang, Kuan-Chun Liu and Kai-Chung Ko, 2005, "The bowed-type parylene valves," ***Tamkang Journal of Science and Engineering***, v. 8, n. 3, pp. 245-248.
22. Jiun-Min Wang and Lung-Jieh Yang, 2005, "Electro-hydro-dynamic (EHD) micropumps with electrode protection by parylene and gelatin," ***Tamkang Journal of Science and Engineering***, v. 8, n. 3, pp. 231-236.
23. Wei-Chih Lin and Lung-Jieh Yang, 2005, "A liquid-based gravity-driven etching-stop technique and its application to wafer level cantilever thickness control of AFM probes", ***Journal of Micromechanics and Microengineering***, v. 15, n. 5, pp. 1049-1054.
24. C.-L. Dai, H.-J. Peng, M.-C. Liu, C.-C. Wu, L.-J. Yang, 2005, "Design and fabrication of RF MEMS switch by the CMOS process," ***Tamkang Journal of Science and Engineering***, v. 8, n. 3, pp. 197-202.
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26. Lung-Jieh Yang, Y.-T. Chen, S.-W. Kang and Y.-C. Wang, 2004, "Fabrication of SU-8 embedded microchannels with circular cross- section," ***International Journal of Machine Tools and Manufacture***, V. 44, pp. 1109-1114.
27. Lung-Jieh Yang, Tze-Jung Yao and Yu-Chong Tai, 2004, "The marching velocity of the capillary meniscus in a microchannel", ***Journal of Micromechanics and Microengineering***, v. 14, n. 2, pp. 220-225.
28. Lung-Jieh Yang, Jiun-Min Wang and Yu-Lin Huang, 2004, "The micro ion drag pump using ITO electrodes to resist aging", ***Sensors and Actuators A: Physical***, v.111, n.1, pp.118-122.
29. C.S. Chen, L.J. Yang and C.F. Chou, 2003, "A study of viscous air damping in laterally oscillating micro comb structures", ***Transactions of the Aeronautical and Astronautical Society of the Republic of China***, v. 35, n.1, pp.99-105.
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35. Lung-Jieh Yang, Tsung-Wei Huang and Pei-Zen Chang, 2001, "CMOS microelectromechanical bandpass filters,"***Sensors and Actuators A: Physical,*** v. 90, n. 1-2, pp. 148-152.
36. Lung-Jieh Yang,K.-Y. Hsieh, J.-H. Chiou, J.-Y. Chen, C.-L. Chang and P.-Z. Chang, 1999, "Fabrication of 3-D microcoils with ferromagnetic cores using a standard CMOS process," ***Sensors and Materials***, v. 11, n. 6, pp. 359-367.
37. Pei-Zen Chang and Lung-Jieh Yang, 1998, **"**A method using V-grooves to monitor the thickness of silicon membrane with μm resolution**,"** ***Journal of Micromechanics and Microengineering,*** v. 8, n. 3, pp. 182-187.
38. Yang, L.-J., Chang, P.-Z., Chiang, C.-C., 1997, "The application of V-groove slot-array method to the piezoresist1ve pressure sensors," ***Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A***, v. 20, n. 3, pp. 335-341.
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Conference papers:

1. Lung-Jieh Yang, Aug. 19-24, 2012, "Wingtip trajectory of a flapping micro-air-vehicle in its forward flight," the 23rd International Congress of Theoretical and Applied Mechanics (ICTAM2012), Beijing, China, FS-06-010
2. L.-J. Yang, C.-Y. Kao, and C.-K. Huang, Mar. 23-25, 2012, "Development of flapping ornithopters by precision injection molding," Proc. of the 9th International Conference on History of Mechanical Technology and Mechanical Design, Tainan, Taiwan, pp. 123-130
3. L.-J. Yang and B.-H. Chen, Mar. 5-8, 2012, "Blood vessels by fractal gelatin," The 7th IEEE International Conference on Nano/Micro Engineered and Molecular Systems (IEEE NEMS 2012), Kyoto, Japan, pp. 242-245
4. L.-J. Yang et al., Nov. 6-9, 2011, "An ultra-small Wankel engine by MEMS process," The 10th International Heat Pipe Symposium, Tamsui, Taiwan, pp.272-276
5. L.J. Yang, C.W. Hsu, and Y.C. Ou, "The minimum time estimation for initiating tumor-cell attachment," June 5-9, Technical Digest of the 16th International

Conference on Solid-State Sensors, Actuators and Microsystems (Transducers '11), Beijing, China, pp. 2386-2389, 2011

6. L.J. Yang, I.C. Huang, Y.S. Chen, W.T. Tang, and A.B. Wang, "A parylene-LED wingbeating indicator for visual remote sensing," June 5-9, Technical Digest of the 16th International Conference on Solid-State Sensors, Actuators and Microsystems (Transducers '11), Beijing, China, pp. 422-425, 2011
7. A-Fu Kao, Lung-Jieh Yang, Fu-Wen Yeh, Feb. 20-23, 2011, "Fractal grooves applied to passive micro-mixers," The 6th IEEE International Conference on Nano/Micro Engineered and Molecular Systems, IEEE NEMS 2011, Kaohsiung, Taiwan
8. Lung-Jieh Yang, Chia-Chan Lee, Po-Hung Chen, Chih-Wen Hsu, Feb. 20-23, 2011, "Confined fractal patterns in gelatin," The 6th IEEE International Conference on Nano/Micro Engineered and Molecular Systems, IEEE NEMS 2011, Kaohsiung, Taiwan
9. L.-J. Yang and T.-Y. Lin, Sep. 19-22, 2010, "A PDMS-based thermopneumaticmicropump with parylene inner walls," MNE 2010, Genoa (Italy)
10. L.-J. Yang, J.-M. Maio, A.-F. Kuo, and C.-K. Hsu, Jun. 28-Jul.1, 2010, "Effect of flexural stiffness on the aerodynamic forces of flapping MAVs," The 28th AIAA Applied Aerodynamics Conference, Chicago (art. no. AIAA 2010-5077)
11. K.-F. Chang, Y.-C. Tsai, W. -P. Shih, and L.-J. Yang, Jan. 24-28, 2010, "An electro-active nano-valve array for reusable drug delivery system," Proceeding of the 23rd IEEE MEMS (**MEMS'10**) , Hongkong, pp. 1039-1042
12. Yang, L.-J., Jan. 20-23, 2010, "Gas permeation in PDMS monitored by on-site pressure sensors," The 5th IEEE International Conference on Nano/Micro Engineered and Molecular Systems, IEEE NEMS 2010, Xiamen, China, pp. 348-351
13. Yi-Shao Chen , Pei-Chun Weng, Po-Hung Chen, and Lung-Jieh Yang, 4-5 Dec, 2009, "Flexural stiffness effect on lift force of flapping micro aerial vehicles,"Proc. of 2009 International Conference on Mechatronic System of Integration and Application (ISBN 978-986-02-1190-0), Tainan, Taiwan, pp. 132-137.**(Best Student Paper Award-Silver medal)**
14. Ou, Y.-C., Hsu, C.-W., Yang, L.-J., Han, H.-C., and Chen, C.-Y., 18-21, Oct., 2009, "A cell culture system with better spatial and time resolution," Proc. of the 3rd IEEE International Conference on Nano/Molecular Medicine and Engineering (NanoMed 2009), Tainan, Taiwan, pp. 89-93
15. M.-D. Wu, Y.-C. Tsai, J.-J. Chen, W.-P. Shih, S.-H. Chang, P.-Z. Chang, J.-T. Huang, and L.-J. Yang, Jul., 2009, "Rapid dielectrophoresis assembly of single carbon nanocoil on an AFM probe tip," Technical Digest of the 15th International Conference on Solid-State Sensors, Actuators and Microsystems (**Transducers '09** - Denver), pp. 2250-2253
16. Y.-C. Tsai, N.-F. Chiu, P.-C. Liu, Y.-C Ou, H.-H. Liao, Y.-J. Yang, L.-J. Yang, U. Lei, F.-S. Chao, S.-S. Lu, C.-W. Lin, and W. -P. Shih, Jan. 25-29, 2009, "Fabrication processes of integrated multi-analyte biochip system for implantable applications", Proceeding of the 22nd IEEE MEMS (**MEMS'09**) , Sorrento, Italy, pp. 204-207
17. Ou, Y.-C., Hsu, C.-W., Yang, L.-J., Han, H.-C., Liu, Y.-W., Chen, C.-Y., 2009, "The

micropatterns of glutaraldehyde-crosslinked gelatin as ECM for attachment of tumor cells," 4th IEEE International Conference on Nano/Micro Engineered and Molecular Systems, NEMS 2009, art. no. 5068585, pp. 314-318

18. Yeh, F.-W., Yang, L.-J., Hess, G.-Y., Lee, C.-J., Chu, C.-C., Sheen, H.-J., 2009, "The arrowed surface ratchets with hydrophobic parylene for droplet transportation," 4th IEEE International Conference on Nano/Micro Engineered and Molecular Systems, NEMS 2009, art. no. 5068595, pp. 359-362
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Books:

Some Knowing about MEMS (in Chinese：認識微機電), Tsang-Hai Book Corp.（滄海書局）, TAIWAN, 1st ed. (ISBN 957-2079-31-X), 2001.

Fundamentals of Sensors and Actuators

Instructor: Prof. Lung-Jieh Yang, Tamkang University, Taiwan

Total hours: 15

Objective:

Sensors and actuators are now two main pillars of transducers in micro electro mechanical systems (MEMS). Sensors are devices which transfer the physical signals (temperature, pressure, light intensity…) to electrical signals. On the contrary, actuators transfer electrical commands into the real application of physical manifestation of heating/cooling, displacement, and light illumination.Miniaturization is of the primary concern of the transducertechnology for pursuit of small size, high performance and low cost.The applications of sensors and actuators to smart engineering and IoTs will also be addressed.

Content: (2 hours for each unit of the followings)

1. Introduction to MEMS and transducers
2. Thermal sensors
3. Pressure sensors
4. Accelerometers
5. Biosensors
6. Thermal actuators
7. Electrostatic and magnetic actuators
8. Optical MEMS technology
9. Microfluidic valves and pumps
10. VIVA and final exam

Score policy: HW and attendance(40%)+VIVA(30%)+final exam(30%)

DINT/11-18/E15
VT/ECE/2018-19/DM24 09

IR-286

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

Directorate of International Relations

Visiting Professor Programmes

Details of Professor & Course:

Name of the Professor	Prof. Dr. L.J. Yang (CV Attached)
University & Country	Tamkang University, Taiwan
Title of the Course	Fundamentals of Sensors and actuators
Department	Electronics and Communication Engineering
Dates of the Course	January 21-25, 2019
Total No. of Hours	15
No. of Credits	1
Course Content	Attached

Prepared by:

Coordinator – Directorate of Intl. Relations

Forwarded by: 10/11/2018

Director – Directorate of Intl. Relations

HoD

Dean 13/4/18

Director (Academic)

29/11/2018

Vice Chancellor

Course Code : 11STEC920

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SCHOOL OF ELECTRICAL & COMMUNICATION

DEPARTMENT OF ECE B.Tech- ECE

VTU R15 B.TECH – ECE

EVEN SEMESTER

WINTER 2018-19

SPECIALISED COURSE 2018-2019

COURSE NAME: 1157EC920/ FUNDAMENTALS OF SENSORS & ACTUATORS

HOURS: 15

THE COURSE-28.01.2019 to 01.02.2019 **NO OF CREDITS: 1**

VTU No	Name	No of Hours Attended	Attendance Percentage	Eligible Not Eligible	Marks out of 100	Result
	GORIPARTHI RADHA KRISHNA	14	93.3	EG	78	PASS
	PULI KIRAN KUMAR REDDY	14	93.3	EG	90	PASS
	BADE TIRUMALA PRASAD	0	0	NE	-	-
	DHANYASI KARTHIK	15	100	EG	78	PASS
	MUMMINENI BHARGAV SAI	14	93.3	EG	78	PASS
	VENGULLA NAGA VENKATA RAGHUVEER	0	0	NE	-	-
	N B PRAKASH	0	0	NE	-	-
	MOHAMMAD MANSUR ALI	0	0	NE	-	-
	VELURU JAYANTH BABU.	15	100	EG	70	PASS
	DARIMADUGU YAMUNA.	0	0	NE	-	-
	VISHNU SAI K	15	100	EG	78	PASS
	SAI CHARITHA N	0	0	NE	-	-
	SRINIVAS A	15	100	EG	76	PASS
	SAI JYOTHISH A	15	100	EG	90	PASS
	VIGNESH S	15	100	EG	86	PASS
	A. MOHAMMED SIDDIQUE	15	100	EG	80	PASS
	BOJEDLA NARENDRANADH CHOWDARY.	15	100	EG	94	PASS
	VENKATA SURENDER BABU M	12	80	EG	74	PASS
	JAMPULA VISHNU SAI.	15	100	EG	74	PASS
	KOMMALA SREEKANTH.	0	0	NE	-	-
	KORUTURU SAI PRAKASH.	14	93.3	EG	70	PASS
	SREEKANTH REDDY D	0	0	NE	-	-
	KURUVA DEVENDRA PRASAD.	15	100	EG	78	PASS
	MULLAKHIL KUMAR REDDY.	15	100	EG	76	PASS
	NAGARAM SAIKIRAN.	14	93.3	EG	72	PASS
	VADAKUPPA VENKATA RAJESH.	15	100	EG	76	PASS
	MOHAMMED ADIL MS	14	93.3	EG	78	PASS
	KOLLIPALLI UJWALA	15	100	EG	86	PASS
	DADIREEDY RAVINDRA REDDY	14	93.3	EG	74	PASS
	KONATHAM KRISHNA REEDY	14	93.3	EG	80	PASS
	K C SAI SRINIVAS	0	0	NE	-	-

Dr. G.Vairavel
Head of the Department
Electronics and Communication Engineering
Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

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[redacted]	[redacted] SREERAM REDDY	14	93.3	EG	78	PASS
[redacted]	[redacted] JAYANYA NAG	14	93.3	EG	88	PASS
[redacted]	[redacted]	14	93.3	EG	84	PASS
[redacted]	[redacted]	14	93.3	EG	84	PASS
[redacted]	[redacted]	15	100	EG	80	PASS
[redacted]	[redacted] PRAKASH REDDY	15	100	EG	88	PASS
[redacted]	[redacted] BASWANTH	15	100	EG	70	PASS
[redacted]	[redacted]	15	100	EG	78	PASS
[redacted]	[redacted]	15	100	EG	72	PASS
[redacted]	[redacted]	15	100	EG	90	PASS
[redacted]	[redacted]	14	93.3	EG	74	PASS
[redacted]	[redacted]	15	100	EG	80	PASS
[redacted]	[redacted]	0	0	NE	-	-
[redacted]	[redacted] PURNA CHANDRA REDDY	15	100	EG	74	PASS
[redacted]	[redacted]	14	93.3	EG	86	PASS
[redacted]	[redacted]	14	93.3	EG	82	PASS

HODECE

Dr. G.Vairavel
Head of the Department
Electronics and Communication Engineering

Vel Tech
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VIJAYA BANK

वेलटेक इंजीनियरिंग कालेज शाखा, तमिलनाडु – 600062
VEL-TECH ENGINEERING COLLEGE, BRANCH TAMILNADU - 600062
IFSC: VIJB0003802

A/c Payee

VALID FOR 3 MONTHS ONLY FROM THE DATE OF ISSUE

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LUNG-JIEH YANG

Pay Forty Five Thousand Only या धारक को or Bearer

रूपये Rupees

अदा करें ₹ **45,000.00

A/c. No. 380206021000008

VEL TECH RANGARAJAN DR. SAGUNTHALA R AND D
INSTITUTE OF SCIENCE AND TECHNOLOGY

AUTHORIZED SIGNATORIES

04/12/2018

Payable at all our branches for transfer and clearing

Please sign above

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Annex

FORM A2
(To be completed by the applicant)

FORM A2

(For payments other than imports and remittances covering intermediary trade)

AD Code No._____
Form No._____
(To be filled in by the Authorised Dealer)

Currency_____ Amount ___Equivalent to Rs. ____
(To be completed by the Authorised Dealer)

Application for Remittance Abroad

I/We Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science & Technology.
(Name of applicant remitter)

PAN No. _____
(For remittances exceeding USD 25,000 and for all capital account transactions)

Address 4no feet, outer Ring Road, Avadi - 6h-62.

authorize

_____
(Name of AD branch)

To debit my Savings Bank/ Current/ RFC/ EEFC A/c. No. 38020030100019 1 together with their charges and

* a) Issue a draft : Beneficiary's Name _____ –
Address _____ –

* b) Effect the foreign exchange remittance directly –
1) Beneficiary's Name Hung - Jeh Yang
2) Name and address of the bank First Commercial Bank
3) Account No. 21868113175

Swift code:-
* c) ~~Issue travelers cheques for~~ FCBKTWTPXXX

Branch:-
* d) ~~Issue foreign currency notes for~~ Tamsui
~~Amount (specify currency)~~ _____

* *(Strike out whichever is not applicable) for the purpose/s indicated below*

Sr. No.	Whether under LRS (Yes/No)	Purpose Code	Description
		As per the Annex	

(Remitter should put a tick (√) against an appropriate purpose code. In case of doubt/ difficulty, the AD bank should be consulted).

Declaration
(Under FEMA 1999)

1. # I, Dr. R. Rangarajan (Name), hereby declare that the total amount of foreign exchange purchased from or remitted through, all sources in India during the financial year including this application is within the overall limit of the Liberalised Remittance Scheme prescribed by the Reserve Bank of India and certify that the source of funds for making the said remittance belongs to me and the foreign exchange will not be used for prohibited purposes.

Details of the remittances made/transactions effected under the Liberalised Remittance Scheme in the current financial year (April- March) 2018-19

Sl. No	Date	Amount	Name and address of AD branch/FFMC through which the transaction has been effected

2. # The total amount of foreign exchange purchased from or remitted through, all sources in India during this calendar year including this application is within ~~USD~~ TWD Nineteen thousand two Hundred and sixty four. (~~USD~~ TWD 19264) the annual limit prescribed by Reserve Bank of India for the said purpose.

National Taiwan Dollar

3. # Foreign exchange purchased from you is for the purpose indicated above.

(Strike out whichever is not applicable)

For Vel Tech Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology

Managing Trustee

Signature of the applicant

(Name)
Date: 28/2/19

Certificate by the Authorised Dealer

This is to certify that the remittance is not being made by/ to ineligible entities and that the remittance is in conformity with the instructions issued by the Reserve Bank from time to time under the Scheme.

Name and designation of the authorised official:
Stamp and seal

Signature:

Date: 28/2/19

Place: Chennai.

For Vel Tech Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology

Managing Trustee

FORM NO. 15CA
[See rule 37BB]
Information to be furnished for payments, to a non-resident not being a company, or to a foreign company

-Acknowledgement Number
426976441280219

PART A - To be filled up if the remittance is chargeable to tax under the provisions of the Income-tax Act,1961 and the remittance or the aggregate of such remittances, as the case may be, does not exceed five lakh rupees during the financial year.
PART B - To be filled up if the remittance is chargeable to tax under the provisions of the Income-tax Act,1961 and the remittance or the aggregate of such remittances, as the case may be, exceeds five lakh rupees during the financial year and an order/ certificate u/s 195(2)/ 195(3)/ 197 of Income-tax Act has been obtained from the Assessing Officer.
PART C - To be filled up if the remittance is chargeable to tax under the provisions of Income-tax Act, 1961 and the remittance or the aggregate of such remittances, as the case may be, exceeds five lakh rupees during the financial year and a certificate in Form No. 15CB from an accountant as defined in the Explanation below sub-section (2) of section 288 has been obtained.
PART D - To be filled up if the remittance is not chargeable to tax under the provisions of the Income-tax Act,1961 {other than payments referred to in rule 37BB(3)} by the person referred to in rule 37BB(2).

Please select the relevant part from the drop down. **PART - A**

PART - A

To be filled up if the remittance is chargeable to tax under the provisions of the Income-tax Act,1961 and the remittance or the aggregate of such remittances, as the case may be, does not exceed five lakh rupees during the financial year

REMITTER	
Name of Remitter	**VEL TECH RANGARAJAN DR SAGUNTHALA RANDD INSTITUTE OF SCIENCE AND TECHNOLOGY TRUST**
PAN of the Remitter (if available)	**AABTV8852A**
TAN of the Remitter (if available)	**CHEV13129E**
ADDRESS OF THE REMITTER	
Flat/ Door/ Block No	**NO.42**
Name of premises/ Building/ Village	**VEL TECH**
Road/ Street	**ALAMATHI ROAD**
Area/ Locality	**AVADI**
Town/ City / District	**TIRUVALLUR**
State	**TAMIL NADU**
Country	**INDIA**
Pin Code	**600062**
Email ID	**NOORJAHAN_1969@YAHOO.COM**
Phone Number	**9940380986**
Status	**OTHERS**
Residential status of remitter	**Resident**
REMITTEE	
Name of recipient of remittance	**LUNG JIEH YANG**
PAN of the recipient of remittance, if available	
ADDRESS OF THE REMITTER	
Flat/ Door/ Block No	**151**
Name of premises/ Building/ Village	**TAMKANG UNIVERSITY**
Road/ Street	**YINGZHUAN ROAD**
Area/ Locality	**NEW TAIPEI**
Town/ City / District	**TAMSUI DISTRICT**
State	**NEWK TAIPEI**
Country	**TAIWAN, PROVINCE OF CHINA[A]**
ZIP Code	**25137**
Email ID of the recipient of remittance	**LIYANG@MAIL.TKU.EDU.TW**
Phone Number of the recipient of remittance	**886932159193**
Country to which remittance is made	**TAIWAN, PROVINCE OF CHINA[A]**
Name of Country if selected as Others	
REMITTANCE	
Amount payable before TDS, (In Indian Currency)	**56818**

Aggregate amount of remittances made during the financial year including this proposed remittance	- 45000
Name of bank	**Vijaya Bank**
Name of Bank if selected as Other Bank	
Name of the branch of the bank	**VEL TECH**
Proposed date of remittance (DD/MM/YYYY)	**28/02/2019**
Nature of remittance	**PAYMENTS TO PROFESSORS, TEACHERS OR RESEARCH SCHOLARS**
Nature of remittance if selected as Others	-
Relevant purpose code as per RBI	**Other Business Services**
	S1008 - Research and Development services
Tax Deducted :	
(a) Amount of TDS	**11818**
(b) Rate of TDS	**20**
(c) Date of deduction (DD/MM/YYYY)	**27/02/2019**

PART-A VERIFICATION

1. **I**, **MR. R. RANGARAJAN**(Name in full and in block letters) son/daughter **MR. RANGASWAMY** in the capacity of **PRESIDENT** (designation) solemnly declare that the information given above is true to the best of my knowledge and belief and no relevant information has been concealed. **I** further undertake to submit the requisite documents for enabling the income-tax authorities to determine the nature and amount of income of the recipient of the above remittance as well as documents required for determining my liability under the Income-tax Act as a person responsible for deduction of tax at source.

Date (DD/MM/YYYY): **28/02/2019**

Name of the person responsible for paying to non-resident **MR. R. RANGARAJAN**

Place **CHENNAI**

Designation of the person responsible for paying to non-resident **PRESIDENT**

This form has been digitally signed by **RANGASWAMY RANGARAJAN** having PAN **AADPR7092J** from IP Address **118.185.184.34** on **2019-02-28 09:12:30.0** .
Dsc Sl No and issuer **15020923CN=e-Mudhra Sub CA for Class 2 Individual 2014,OU=Certifying Authority,O=eMudhra Consumer Services Limited,C=IN**

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

Dr. S. Sivaperumal
Director International Relations

Date: 28 FEB 2019

Our Ref. No: 2018/ VF 149	**Your Ref. No:**

Name of the Professor: Prof. Dr. Lung- Jieh Yang

University & Country : Tamkang University, Taiwan

Course Titles : Fundamentals of Sensors & Actuators (15 Hrs)

Department : Electronics and Communication Engineering

Students : 2015-2019- 2 students
2016-2020- 9 students
2017-2021- 24 students

Program date : January 21 to February 1, 2019

Sl.No	Description	Amount in INR	Amount in TWD
1	Course Honorarium (Rs.3000 * 15Hrs) **(Net Amount & Tax Free)**	45000	19264
	Total	**45000**	**19264**

(Rupees ninety thousand only)

In this regard, I request you to transfer the amount in TWD to the following Account,

Name : Lung- Jieh Yang
Account No : 21868113175
Bank : First Commercial Bank
Branch : Tamsui
SWIFT Code: FCBKTWTPXXX

Thank You,

S. Sivaperumal

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

No.42, Avadi - Vel Tech Road, Avadi,
Chennai, Tamil Nadu, Pincode - 600 062.
Landline : +91 44 2684 0262
Mobile : +91 96000 40255
Tollfree : 1800 3070 6949
Email : dint@veltech.edu.in
Website: www.veltech.edu.in

Semiconductor Processing and Equipment

Lung-Jieh Yang, Tamkang University, Taiwan

Jan. 2019, Veltech, India

Semiconductor technology is very important to the fabrication of integrated circuits (IC) andis necessary to the whole planning of “Made-In-India”. This 15-hour course provides students an overall briefing of the processing and equipment of seminductor industry. The contents are shown as below:

1. Introduction (1h)
2. Oxidation and diffusion (2h)
3. Thin film deposition (2h)
4. Metal film deopistion (2h)
5. Photolithography (3h)
6. Etching (2h)
7. Ion implantation (1h)
8. Chemical mechanical planarization (1h)
9. VIVA (1h)

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

School of Computing

Department of Computer Science and Engineering

Specialized one credit course on

"Fundamentals of Sensors and Actuators"

(1157CS928)

by

Prof. Dr. Lung- Jieh Yang

Tamkang University, Taiwan

Held on

Date: July 30 to August 10, 2018

CURRICULUM VITAE



1. *Personal data*

- Lung-Jieh Yang
- Nationality: TAIWAN, R.O.C.
- Sex：Male
- DOB: Aug. 07, 1965
- Corresponding Address: Department of Mechanical and Electro-Mechanical Engineering, TamkangUniversity, #151, Ying-Chuan Rd., Tamsui, 25137, Taipei, TAIWAN, R.O.C.
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2. *Education*

- Ph.D., Institute of Applied Mechanics, National Taiwan University, TAIWAN, R.O.C., Dec., 1996
- M.S., Institute of Mechanical Engineering, Tamkang University, TAIWAN, R.O.C., June, 1991
- B.S., Department of Aerospace Engineering, National Cheng-Kung University, TAIWAN, R.O.C., June, 1987

3. *Current position and relevant experience*

Current position： Professor, Department of Mechanical and Electro-Mechanical Engineering, Tamkang University, TAIWAN (since Aug., 2012)

Relevant experience：

- Editor-in-Chief, Tamkang Journal of Science and Engineering, ISSN 1560-6686 (since Aug. 2011)
- Adjoint Research Fellow, National Applied Research Lab, TAIWAN (Aug. 2008~Aug. 2011)
- Professor, Department of Mechanical and Electro-Mechanical Engineering, Tamkang University, TAIWAN (since Aug., 2007)
- Director, Incubation Center, Tamkang University (Aug. 2008~Jul. 2009)
- Director, Instrument and Experiment Center, Tamkang University (Aug. 2003~Jul. 2008)
- Associate Professor, Department of Mechanical and Electro-Mechanical Engineering, Tamkang University, TAIWAN (Aug., 2002~Jul., 2006)

- Assistant Professor, Department of Mechanical Engineering, Tamkang University, TAIWAN (Aug., 1997~Jul., 2002)
- Visiting Associate, Department of Electrical Engineering, California Institute of Technology, USA (Sep., 2000~Aug., 2001)

4. ***Fields of specialty (limit to fields related to research)***
   - MEMS (micro electro mechanical systems)
   - Micro Aerial Vehicles

5. ***Major awards and honors***
   - IEEE *International Conference on Nano/Micro Engineered and Molecular Systems* (IEEE NEMS), TPC members: 2009-2012
   - Co-Chair, The 10th International Heat Pipe Symposium, Nov. 6-9, 2011.
   - Tamkang Research Awards: 1998, 2000, 2002-2012
   - Best Student Paper Award (Adviser), 2009 International Conference on Mechatronic System of Integration and Application, Tainan, Dec. 4-5, 2009.
   - Best Paper Award, The 10th Conference on Nano Engineering and Micro System Technology of Taiwan, Nov. 30-Dec. 1, 2006.
   - Best Student Paper Award (Adviser), The Third Asia-Pacific Conference On Transducers (APCOT-2006), Singapore, June 25-28, 2006.
   - NSC Research Awards: 1998.

Significant project-related publications in the past five years, including: journal papers, patents, periodical articles, or books, etc.

Journal papers:

1. Lung-Jieh Yang, Chung-Yu Kao, and Chin-Kwang Huang, 2012, "Development of flapping ornithopters by precision injection molding," ***Applied Mechanics and Materials***, v. 163, pp. 125-132.
2. Lung-Jieh Yang, A-Fu Kuo, and Cheng-Kuei Hsu, 2012, "Wing stiffness on light flapping micro aerial vehicles," ***Journal of Aircraft***, v. 49, n. 2, pp. 423-431.Lung-Jieh Yang and Tzu-Yuan Lin, 2011, "A PDMS-based thermo-pneumatic micropump with parylene inner walls," ***Microelectronic Engineering***, v. 88, n. 8, pp. 1894-1897.
3. Lung-Jieh Yang, 2010, "On gas-permeation in PDMS," ***Journal of Micromechanics and Microengineering***, v. 20, n. 11, 115033.
4. Yung-Chiang Chung, Li-Wei Lai, Lung-Jieh Yang, and Wei-Jie Liao, 2010 "Comparison of different metal film thicknesses of COC-substrate polymerase chain reaction chips with single-side and double-side heaters,"***Journal of Micro/Nanolithography, MEMS, and MOEMS***, v. 9 (3), 031006.

5. Yung-Chiang Chung,Guo-Yuan Hess, Fu-Wen Yeh, Hsieh-Cheng Han,Chien-Yuan Chen, Ching-Jiun Lee, Horn-Jiunn Sheen, and Lung-Jieh Yang, 2010, "Fabrication and testing of surface ratchets primed with hydrophobic parylene and hexamethyldisilazane for transporting droplets," ***Journal of Micro/Nanolithography, MEMS, and MOEMS***, v. 9 (1), 013035.
6. Lung-Jieh Yang, Cheng-Kuei Hsu, Hsieh-Cheng Han, and Jr-Ming Miao, 2009, "A light flapping micro-aerial-vehicle using electrical discharge wire cutting technique,"***Journal of Aircraft,*** v. 46, n. 6, pp. 1866-1874.
7. Lung-Jieh Yang, Cheng-Kuei Hsu, Chun-Yu Kao, Fu-Yuen Hsiao, and Chao-Kung Feng, 2009, "Weight reduction of flapping micro aerial vehicles using electrical discharge wire machining," ***Journal of Aeronautics, Astronautics and Aviations-Series A***, v. 41, n. 3, pp. 165-172.
8. Lung-Jieh Yang, 2009, "Gas permeation in PDMS in-situ monitoring by silicon pressure sensors," ***Advanced Materials Research***, v. 74, pp. 113-116.
9. P.-L. Lu, C.-L. Fan, L.-J. Yang, C.-W. Lin, F.-S. Jaw, 2009, "Novel fabrication of full parylene-isolated neuroprobes,"***Journal of Bionanoscience***, v. 3, n. 1, pp. 58-60.
10. Yu-Cheng Ou, Chih-Wen Hsu, Lung-Jieh Yang,Hsieh-Cheng Han, Yi-Wen Liu, and Chien-Yuan Chen, 2008, "Attachment of tumor cells to the micropatterns of glutaraldehyde (GA)-crosslinked gelatin," ***Sensors and Materials***, v. 20, n. 8, pp. 435-446.
11. Ling-ChihChien, Nan-Fu Chiu, Adam Shih-Yuan Lee, Lung-JiehYang,Yao-Joe Yang, Kuang-Chong Wu, Chih-Kung Lee, and Chii-Wann Lin, 2007, "Electrochemical detection of high-sensitivity C-reactive protein based on biomimic design of electroactive nanoassembly multilayers,"***Journal of Bionanoscience***, v. 1, n. 1, pp. 44–50.
12. Lung-Jieh Yang, Hsin-Hsiung Wang, Po-Chiang Yang, Y.-C. Chung, and T.-S. Shen, 2007, "New packaging method using PDMS for piezoresistive pressure sensors," ***Sensors and Materials***, v. 19, n. 7, pp. 391-402.
13. Lung-Jieh Yang, C.-K. Hsu, J.-Y. Ho, and C.-K. Feng, 2007, "Flapping wings with PVDF sensors to modify the aerodynamic forces of a micro aerial vehicle," ***Sensors and Actuators A: Physical***, v. 139, pp. 95-103.
14. Lung-Jieh Yang, K.-C. Ko, and J.-M. Wang, 2007, "A circular microchannel integrated with embedded spiral electrodes using for fluid transportation,"***Sensors and Actuators A: Physical***, v. 139, pp. 172-177.
15. Yan-You Lin, Chi-Wann Lin, Lung-Jieh Yang, and An-Bang Wang, 2007, "Micro-viscometer based on electrowetting on dielectric," ***ElectrochimicaActa***, **v. 52, pp. 2876-2883.**
16. Lung-Jieh Yang, C.-K. Hsu, C.-K. Feng, J.-Y. Ho, G.-H. Feng, and H.-M. Shih, 2007, "A flapping MAV with PVDF-parylene composite skin," ***Transactions of the Aeronautical and Astronautical Society of the Republic of China***, v. 39, n. 3, pp. 195-202.

17. Lung-Jieh Yang and Kuan-Chun Liu, 2007, "Surface tension-driven microvalves with large rotating stroke," ***Tamkang Journal of Science and Engineering***, v. 10, n. 2, pp. 141-146.
18. Lung-Jieh Yang, Hsin-Hsiung Wang, Jiun-Min Wang, Kuan-Chun Liu and Kai-Chung Ko, 2006, "Buckled-type valves integrated by parylene micro-tubes," ***Sensors and Actuators A: Physical***, Vol. 130-131, pp. 241-246.
19. Lung-Jieh Yangand Yu-Cheng Ou, 2005, "The micro patterning of glutaraldehyde (GA)-crosslinked gelatin and its application to cell-culture," ***Lab on a Chip***, Vol. 5, No. 9, pp. 979-984.
20. C. L. Dai, H. J. Peng, M. C. Liu, C. C. Wu, H. M. Hsu, L. J. Yang, 2005, "A micromachined microwave switch fabricated by the complementary metal-oxide semiconductor post-process of etching silicon dioxide," ***Japanese Journal of Applied Physics***, Vol. 44, No. 9A, pp. 6804-6809.
21. Lung-Jieh Yang,Hsin-Hsiung Wang, Kuan-Chun Liu and Kai-Chung Ko, 2005, "The bowed-type parylene valves," ***Tamkang Journal of Science and Engineering***, v. 8, n. 3, pp. 245-248.
22. Jiun-Min Wang and Lung-Jieh Yang, 2005, "Electro-hydro-dynamic (EHD) micropumps with electrode protection by parylene and gelatin," ***Tamkang Journal of Science and Engineering***, v. 8, n. 3, pp. 231-236.
23. Wei-Chih Lin and Lung-Jieh Yang, 2005, "A liquid-based gravity-driven etching-stop technique and its application to wafer level cantilever thickness control of AFM probes", ***Journal of Micromechanics and Microengineering***, v. 15, n. 5, pp. 1049-1054.
24. C.-L. Dai, H.-J. Peng, M.-C. Liu, C.-C. Wu, L.-J. Yang, 2005, "Design and fabrication of RF MEMS switch by the CMOS process," ***Tamkang Journal of Science and Engineering***, v. 8, n. 3, pp. 197-202.
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26. Lung-Jieh Yang, Y.-T. Chen, S.-W. Kang and Y.-C. Wang, 2004, "Fabrication of SU-8 embedded microchannels with circular cross- section," ***International Journal of Machine Tools and Manufacture***, V. 44, pp. 1109-1114.
27. Lung-Jieh Yang, Tze-Jung Yao and Yu-Chong Tai, 2004, "The marching velocity of the capillary meniscus in a microchannel", ***Journal of Micromechanics and Microengineering***, v. 14, n. 2, pp. 220-225.
28. Lung-Jieh Yang, Jiun-Min Wang and Yu-Lin Huang, 2004, "The micro ion drag pump using ITO electrodes to resist aging", ***Sensors and Actuators A: Physical***, v.111, n.1, pp.118-122.
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30. Lung-Jieh Yang, W.-Z. Lin, T.-J. Yao and Y.-C. Tai, 2003, "Photo-patternable gelatin as protection layers in surface micromachinings", ***Sensors and Actuators A:Physical***, v.103, n.1-2, pp.284-290.

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35. Lung-Jieh Yang, Tsung-Wei Huang and Pei-Zen Chang, 2001, "CMOS microelectromechanical bandpass filters,"***Sensors and Actuators A: Physical,*** v. 90, n. 1-2, pp. 148-152.
36. Lung-Jieh Yang,K.-Y. Hsieh, J.-H. Chiou, J.-Y. Chen, C.-L. Chang and P.-Z. Chang, 1999, "Fabrication of 3-D microcoils with ferromagnetic cores using a standard CMOS process," ***Sensors and Materials***, v. 11, n. 6, pp. 359-367.
37. Pei-Zen Chang and Lung-Jieh Yang, 1998, **"**A method using V-grooves to monitor the thickness of silicon membrane with μm resolution**,"** ***Journal of Micromechanics and Microengineering,*** v. 8, n. 3, pp. 182-187.
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Conference papers:

1. Lung-Jieh Yang, Aug. 19-24, 2012, "Wingtip trajectory of a flapping micro-air-vehicle in its forward flight," the 23rd International Congress of Theoretical and Applied Mechanics (ICTAM2012), Beijing, China, FS-06-010
2. L.-J. Yang, C.-Y. Kao, and C.-K. Huang, Mar. 23-25, 2012, "Development of flapping ornithopters by precision injection molding," Proc. of the 9th International Conference on History of Mechanical Technology and Mechanical Design, Tainan, Taiwan, pp. 123-130
3. L.-J. Yang and B.-H. Chen, Mar. 5-8, 2012, "Blood vessels by fractal gelatin," The 7th IEEE International Conference on Nano/Micro Engineered and Molecular Systems (IEEE NEMS 2012), Kyoto, Japan, pp. 242-245
4. L.-J. Yang et al., Nov. 6-9, 2011, "An ultra-small Wankel engine by MEMS process," The 10th International Heat Pipe Symposium, Tamsui, Taiwan, pp.272-276
5. L.J. Yang, C.W. Hsu, and Y.C. Ou, "The minimum time estimation for initiating tumor-cell attachment," June 5-9, Technical Digest of the 16th International

Conference on Solid-State Sensors, Actuators and Microsystems (Transducers '11), Beijing, China, pp. 2386-2389, 2011

6. L.J. Yang, I.C. Huang, Y.S. Chen, W.T. Tang, and A.B. Wang, "A parylene-LED wingbeating indicator for visual remote sensing," June 5-9, Technical Digest of the 16th International Conference on Solid-State Sensors, Actuators and Microsystems (Transducers '11), Beijing, China, pp. 422-425, 2011
7. A-Fu Kao, Lung-Jieh Yang, Fu-Wen Yeh, Feb. 20-23, 2011, "Fractal grooves applied to passive micro-mixers," The 6th IEEE International Conference on Nano/Micro Engineered and Molecular Systems, IEEE NEMS 2011, Kaohsiung, Taiwan
8. Lung-Jieh Yang, Chia-Chan Lee, Po-Hung Chen, Chih-Wen Hsu, Feb. 20-23, 2011, "Confined fractal patterns in gelatin," The 6th IEEE International Conference on Nano/Micro Engineered and Molecular Systems, IEEE NEMS 2011, Kaohsiung, Taiwan
9. L.-J. Yang and T.-Y. Lin, Sep. 19-22, 2010, "A PDMS-based thermopneumaticmicropump with parylene inner walls," MNE 2010, Genoa (Italy)
10. L.-J. Yang, J.-M. Maio, A.-F. Kuo, and C.-K. Hsu, Jun. 28-Jul.1, 2010, "Effect of flexural stiffness on the aerodynamic forces of flapping MAVs," The 28th AIAA Applied Aerodynamics Conference, Chicago (art. no. AIAA 2010-5077)
11. K.-F. Chang, Y.-C. Tsai, W. -P. Shih, and L.-J. Yang, Jan. 24-28, 2010, "An electro-active nano-valve array for reusable drug delivery system," Proceeding of the 23rd IEEE MEMS (**MEMS'10**) , Hongkong, pp. 1039-1042
12. Yang, L.-J., Jan. 20-23, 2010, "Gas permeation in PDMS monitored by on-site pressure sensors," The 5th IEEE International Conference on Nano/Micro Engineered and Molecular Systems, IEEE NEMS 2010, Xiamen, China, pp. 348-351
13. Yi-Shao Chen , Pei-Chun Weng, Po-Hung Chen, and Lung-Jieh Yang, 4-5 Dec, 2009, "Flexural stiffness effect on lift force of flapping micro aerial vehicles,"Proc. of 2009 International Conference on Mechatronic System of Integration and Application (ISBN 978-986-02-1190-0), Tainan, Taiwan, pp. 132-137.**(Best Student Paper Award-Silver medal)**
14. Ou, Y.-C., Hsu, C.-W., Yang, L.-J., Han, H.-C., and Chen, C.-Y., 18-21, Oct., 2009, "A cell culture system with better spatial and time resolution," Proc. of the 3rd IEEE International Conference on Nano/Molecular Medicine and Engineering (NanoMed 2009), Tainan, Taiwan, pp. 89-93
15. M.-D. Wu, Y.-C. Tsai, J.-J. Chen, W.-P. Shih, S.-H. Chang, P.-Z. Chang, J.-T. Huang, and L.-J. Yang, Jul., 2009, "Rapid dielectrophoresis assembly of single carbon nanocoil on an AFM probe tip," Technical Digest of the 15th International Conference on Solid-State Sensors, Actuators and Microsystems (**Transducers '09** - Denver), pp. 2250-2253
16. Y.-C. Tsai, N.-F. Chiu, P.-C. Liu, Y.-C Ou, H.-H. Liao, Y.-J. Yang, L.-J. Yang, U. Lei, F.-S. Chao, S.-S. Lu, C.-W. Lin, and W. -P. Shih, Jan. 25-29, 2009, "Fabrication processes of integrated multi-analyte biochip system for implantable applications", Proceeding of the 22nd IEEE MEMS (**MEMS'09**) , Sorrento, Italy, pp. 204-207
17. Ou, Y.-C., Hsu, C.-W., Yang, L.-J., Han, H.-C., Liu, Y.-W., Chen, C.-Y., 2009, "The

micropatterns of glutaraldehyde-crosslinked gelatin as ECM for attachment of tumor cells," 4th IEEE International Conference on Nano/Micro Engineered and Molecular Systems, NEMS 2009, art. no. 5068585, pp. 314-318

18. Yeh, F.-W., Yang, L.-J., Hess, G.-Y., Lee, C.-J., Chu, C.-C., Sheen, H.-J., 2009, "The arrowed surface ratchets with hydrophobic parylene for droplet transportation," 4th IEEE International Conference on Nano/Micro Engineered and Molecular Systems, NEMS 2009, art. no. 5068595, pp. 359-362
19. L.-J. Yang, Cheng-Kuei Hsu, Fu-Yuen Hsiao, Yung-Kang Shen, 5-8, Jan., 2009, "A micro-aerial-vehicle (MAV) with figure-of-eight flapping induced by flexible wing frames," 47th AIAA Aerospace Science Meeting, Orlando, USA (art. no. AIAA-2009-0875).
20. L.-J. Yang and Cheng-Kuei Hsu, 24-30, Aug., 2008, "A biomimetic figure-of-eight flapping induced by flexible wings," the 22nd International Congress of Theoretical and Applied Mechanics (ICTAM-2008), Adelaide, Australia.
21. L.-J. Yang et al., Jun. 23-26, 2008, "A biomimetic figure-of-eight flapping of micro aerial vehicles (MAVS) illuminated by LEDS," **APCOT-2008**, Tainan, TAIWAN, p. 145.
22. Lin, T.-Y., Ou, Y.-C., Yang, L.-J., 2008, "A thermopneumaticvalvelessmicropump with PDMS-based nozzle/diffuser structure for microfluidic system," *2008 Proceedings of the ASME Micro/Nanoscale Heat Transfer International Conference, MNHT 2008,* PART A, pp. 293-296
23. Lung-Jieh Yang,Cheng-Kuei Hsu, Chao-Kang Feng, H.-M. Shih, G.-H. Feng and M.-W. Gao, June 10-14, 2007, "Smart flapping wings with a PVDF sensor to modify aerodynamic performance of a micro UAV," Technical Digest of the 14th International Conference on Solid-State Sensors, Actuators and Microsystems (Transducers '07 - Lyon), pp. 1705-1708
24. Pen-Li Lu, Chu-Lin Fan, Lung-Jieh Yang, Chii-Wan Lin, Yao-Joe Yang and Fu-Shan Jaw, Jan. 16-19, 2007, "Completely parylene-coated neuroprobe for chronic recording," 2nd IEEE NEMS, paper ID: 74, Bangkok, Thailand.
25. Jiun-Min Wang and Lung-Jieh Yang, Jan. 16-19, 2007, "EHD micro-boat," 2nd IEEE NEMS, paper ID: 174, Bangkok, Thailand.
26. K.-C. Ko, K.-Y. Ho, H.-H. Wang and Lung-Jieh Yang, Jun. 25-28, 2006,"A circular microchannel integrated with embedded spiral electrodes using for fluid transportation,"The 10th Conference on Nano Engineering and Micro System Technology of Taiwan, Nov. 30, 2006., Hsin-Chu, p.165 **(Best Paper Award)**
27. Jiun-Min Wang and Lung-Jieh Yang, Jun. 25-28, 2006, "Zeta-potential effect on EHD flows," **APCOT-2006**, Singapore, p.159. (C-28)
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29. C.-K. Hsu, J.-Y. Ho, G.-H. Feng, H.-M. Shih and Lung-Jieh Yang, Jun. 25-28, 2006, "A flapping MAV with PVDF-parylene composite skin," **APCOT-2006**, Singapore, p. 253 (SASN-A0019)**Best Student Paper Award- poster category.**

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40. H.-H. Wang, P.-C. Yang and Lung-Jieh Yang, 2004/07, "The pressure-sensor array

using as an experiment platform for microfluidics," ICEE/APCOT-2004 (Asia Pacific Conference on Transducers), Sapporo, Japan, pp. 362-367.

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Patents:

1. Lung-Jieh Yang, 壓阻式壓力感測器及其封裝方法, ROC (Taiwan) patent, I258,868, 06/01/2005.
2. Yih-Min Chang and Lung-Jieh Yang, "Manufacturing method for the miniaturization of silicon bulkmachined pressure sensor," US patent 6,308,575, 10/30/2001.

Books:

Some Knowing about MEMS (in Chinese：認識微機電), Tsang-Hai Book Corp.（滄海書局）, TAIWAN, 1st ed. (ISBN 957-2079-31-X), 2001.

Fundamentals of Sensors and Actuators

Instructor: Prof. Lung-Jieh Yang, Tamkang University, Taiwan

Total hours: 20

Objective:

Sensors and actuators are now two main pillars of transducers in micro electro mechanical systems (MEMS). Sensors are devices which transfer the physical signals (temperature, pressure, light intensity…) to electrical signals. On the contrary, actuators transfer electrical commands into the real application of physical manifestation of heating/cooling, displacement, and light illumination.Miniaturization is of the primary concern of the transducertechnology for pursuit of small size, high performance and low cost.The applications of sensors and actuators to smart engineering and IoTs will also be addressed.

Content: (2 hours for each unit of the followings)

1. Introduction to MEMS and transducers
2. Thermal sensors
3. Pressure sensors
4. Accelerometers
5. Biosensors
6. Thermal actuators
7. Electrostatic and magnetic actuators
8. Optical MEMS technology
9. Microfluidic valves and pumps
10. VIVA and final exam

Score policy: HW and attendance(40%)+VIVA(30%)+final exam(30%)

DINT/04-18/043

DA/625
7/5/18

IR-286

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

Office of International Programmes

Visiting Professor Programmes

Details of Professor & Course:

Name of the Professor	Prof. Dr.Lung Jieh Yang (CV Attached)
University & Country	Tamkang University, Taiwan
Title of the Course	Fundamentals of Sensors & Actuators
Department	Department of Computer Science and Engineering
Dates of the Course	July 30 to August 10, 2018
Total No. of Hours	20
No. of Credits	1
Course Content	Attached

Prepared by:
Coordinator – Directorate of Intl. Relations

Forwarded by: 30/04/18.
Director - Intl. Relations

3/5/18
HoD

03/5/18
Dean

Director (Academic)

Prof. Dr. techn. Koteswara Rao Anne
Director Academics
Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology

10.05.18
Vice Chancellor

SNo	Stu_Id	Stu_Name	Stu_Degree	Stu_Branch	Stu_Test_SubjectCode	Stu_Test_SubjectName	Stu_Subject_PassFail	Stu_Grade
1	VtU8995	K.GOPI CHAND	B.Tech	CSE	1157CS928	Introduction to Sensors and Actuators	Pass	C
2	VtU8702	KOVVURI VEERASATYADEVI	B.Tech	CSE	1157CS928	Introduction to Sensors and Actuators	Pass	D
3	VtU9271	P.SATISH KUMAR	B.Tech	CSE	1157CS928	Introduction to Sensors and Actuators	Pass	D
4	VtU9925	PARLA SAI KIRAN	B.Tech	CSE	1157CS928	Introduction to Sensors and Actuators	Pass	D
5	VtU9927	JUTHUKA SUJITH FRANCIS	B.Tech	CSE	1157CS928	Introduction to Sensors and Actuators	Pass	D
6	VtU10341	AYESHS JAHANGIR	B.Tech	CSE	1157CS928	Introduction to Sensors and Actuators	Pass	C
7	VtU8640	MAALE TRIVENI	B.Tech	CSE	1157CS928	Introduction to Sensors and Actuators	Pass	C
8	VtU9125	P SAI GANGADHAR	B.Tech	CSE	1157CS928	Introduction to Sensors and Actuators	Pass	B
9	VtU10102	AMARA THARUN KRISHNA	B.Tech	CSE	1157CS928	Introduction to Sensors and Actuators	Pass	B
10	VtU10258	NACHIKETA KUMAR	B.Tech	CSE	1157CS928	Introduction to Sensors and Actuators	Pass	C
11	VtU8937	V.SUDARSAN	B.Tech	CSE	1157CS928	Introduction to Sensors and Actuators	Pass	D
12	VtU9756	DIVYANSH MITTAL	B.Tech	CSE	1157CS928	Introduction to Sensors and Actuators	Pass	D
13	VtU9763	KAMADANA ANAND PAUL	B.Tech	CSE	1157CS928	Introduction to Sensors and Actuators	Pass	D
14	VtU9772	ADAPA VAMSI KRISHNA	B.Tech	CSE	1157CS928	Introduction to Sensors and Actuators	Pass	D
15	VtU9821	KOGANTI YESHWANTH	B.Tech	CSE	1157CS928	Introduction to Sensors and Actuators	Pass	D
16	VtU9826	KETHAVARAPU SREEJA	B.Tech	CSE	1157CS928	Introduction to Sensors and Actuators	Pass	D
17	VtU9373	MACHA ANUSHA	B.Tech	CSE	1157CS928	Introduction to Sensors and Actuators	Pass	D
18	VtU7072	KARTHIK NAIR P	B.Tech	CSE	1157CS928	Introduction to Sensors and Actuators	Pass	C
19	VtU7091	JAYENDRAN T	B.Tech	CSE	1157CS928	Introduction to Sensors and Actuators	Pass	C
20	VtU7107	PRASANNA S	B.Tech	CSE	1157CS928	Introduction to Sensors and Actuators	Pass	C
21	VtU8719	POGU SAIKUMAR	B.Tech	CSE	1157CS928	Introduction to Sensors and Actuators	Pass	D
22	VtU8762	YEDDULA SHIVA SHANKAR REDDY	B.Tech	CSE	1157CS928	Introduction to Sensors and Actuators	Pass	D
23	VtU8763	B.CHANDRA SEKHAR	B.Tech	CSE	1157CS928	Introduction to Sensors and Actuators	Pass	C
24	VtU8783	N RISHAB	B.Tech	CSE	1157CS928	Introduction to Sensors and Actuators	Pass	C
25	VtU9686	DEVIREDDY SIVA SATHISH KUMAR REDDY	B.Tech	CSE	1157CS928	Introduction to Sensors and Actuators	Pass	C
26	VtU9120	D.SIVA RAMA KRISHNA CHOWDARY	B.Tech	CSE	1157CS928	Introduction to Sensors and Actuators	Pass	B
27	VtU10379	ENANTALA SAI SHANMUKH	B.Tech	CSE	1157CS928	Introduction to Sensors and Actuators	Pass	D
28	VtU10386	PRASHASTI SINGH	B.Tech	CSE	1157CS928	Introduction to Sensors and Actuators	Pass	D
29	VtU8989	V.HEMA SRI	B.Tech	CSE	1157CS928	Introduction to Sensors and Actuators	Pass	D
30	VtU10421	SUMANTH REDDY.M	B.Tech	CSE	1157CS928	Introduction to Sensors and Actuators	Pass	D
31	VtU6890	SUGUMARSRUTHI S	B.Tech	CSE	1157CS928	Introduction to Sensors and Actuators	Pass	C
32	VtU7134	SIDHARTH KUMAR B	B.Tech	CSE	1157CS928	Introduction to Sensors and Actuators	Pass	C
33	VtU8325	RAMANAN L	B.Tech	CSE	1157CS928	Introduction to Sensors and Actuators	Pass	B
34	VTU6159	YADDANAPUDI JAHNAVI	B.Tech	CSE	1157CS928	Introduction to Sensors and Actuators	Pass	C
35	VtU9928	SURABATHINA MADHU SAI SHREE	B.Tech	CSE	1157CS928	Introduction to Sensors and Actuators	Pass	D
36	VtU9938	BRAHMADEVARA RISHMITHA	B.Tech	CSE	1157CS928	Introduction to Sensors and Actuators	Pass	C
37	VtU9313	KOLAVENNU VINAY	B.Tech	CSE	1157CS928	Introduction to Sensors and Actuators	Pass	D
38	VtU6949	PASULA VINAY KUMAR	B.Tech	CSE	1157CS928	Introduction to Sensors and Actuators	Pass	D
39	VtU10225	NADELLA SUMANTH RAJA	B.Tech	CSE	1157CS928	Introduction to Sensors and Actuators	Pass	D
40	VTU8158	DHASBEEHA	B.Tech	CSE	1157CS928	Introduction to Sensors and Actuators	Pass	B
41	VtU9905	DASARI SAHITHI	B.Tech	CSE(DA)	1157CS928	Introduction to Sensors and Actuators	Pass	D

SNo	Stu_Id	Stu_Name	Stu_Degree	Stu_Branch	Stu_Test_SubjectCode	Stu_Test_SubjectName	Stu_Subject_PassFail	Stu_Grade
42	VtU8747	SHARMILA.J	B.Tech	CSE(FC)	1157CS928	Introduction to Sensors and Actuators	Pass	D
43	VtU10538	THATAVARTHI NAVEEN	B.Tech	CSE(NW&CS)	1157CS928	Introduction to Sensors and Actuators	Pass	D
44	VtU10139	KOMMIDI DHEERAJ REDDY	B.Tech	CSE(NW&CS)	1157CS928	Introduction to Sensors and Actuators	Pass	C
45	VtU8864	TEJASH SANJAY JADHAV	B.Tech	CSE(NW&CS)	1157CS928	Introduction to Sensors and Actuators	Pass	D
46	VtU9997	R MANIDEEP	B.Tech	CSE(NW&CS)	1157CS928	Introduction to Sensors and Actuators	Pass	D
47	VtU10826	PRAKHAR KATYAYAN	B.Tech	CSE(NW&CS)	1157CS928	Introduction to Sensors and Actuators	Pass	D
48	VtU8210	NAGELLA SASIDHAR REDDY	B.Tech	CSE(NW&CS)	1157CS928	Introduction to Sensors and Actuators	Pass	C

SNo	Stu_Id	Stu_Name	Stu_Degree	Stu_Branch	Stu_Test_SubjectCode	Stu_Test_SubjectName	Stu_Subject_PassFail	Stu_Grade
1	VTU6356	DARIMADUGU YAMUNA	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	NE	NE
2	VtU7346	NALLAKA SAICHARITHA	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	NE	NE
3	VtU7212	KONKA VISHNU SAI	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	Pass	B
4	VTU6002	VELURU JAYANTH BABU	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	Pass	B
5	VtU7352	ATLA SRINIVAS	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	Pass	B
6	VtU7372	A SAI JYOTHISH	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	Pass	S
7	VtU7382	S VIGNESH	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	Pass	A
8	VtU7387	MOHAMMED SIDDIQUE A	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	Pass	A
9	VtU8205	NAGARAM SAIKIRAN	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	Pass	B
10	VtU7822	KOMMALA SREEKANTH	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	NE	NE
11	VtU7862	KORUTURU SAIPRAKASH	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	Pass	B
12	VtU7898	DADHIREDDY SREEKANTH REDDY	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	NE	NE
13	VtU8065	KURUVA DEVENDRA PRASAD	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	Pass	B
14	VtU8356	VADAKUPPA VENKATA RAJESH	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	Pass	B
15	VtU8404	MOMIN SHAIK MOHAMMED ADIL	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	Pass	B
16	VtU7449	BOJEDLA NARENDRANADH CHOWDARY	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	Pass	S
17	VtU7452	MUPPANENI VENKATA SURENDRA BABU	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	Pass	B
18	VtU7454	JAMPULA VISHNU SAI	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	Pass	B
19	VtU8174	MULA AKHIL KUMAR REDDY	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	Pass	B
20	VtU9264	MADHA VENKATA BASWANTH	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	Pass	B
21	VtU9276	MUMMIDI SATYA SAI	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	Pass	B
22	VtU9277	SHAIK AFRID	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	Pass	B
23	VtU10105	DHANYASI KARTHIK	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	Pass	B
24	VtU10158	MUMMINENI BHARGAV SAI	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	Pass	B
25	VtU10173	VENGULLA NAGA VENKATA RAGHUVEER	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	NE	NE
26	VtU10180	N B PRAKASH	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	NE	NE
27	VtU8760	KOLLIPALLI UJWALA	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	Pass	A
28	VtU8827	DADIREDDY RAVINDRA REDDY	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	Pass	B
29	VtU8854	KONATHAM KRISHNA REDDY	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	Pass	A
30	VtU9297	GADDAM VENKATESH	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	Pass	S
31	VtU9406	MADA SUJITH	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	Pass	B
32	VtU9450	BANDI MANI PRANEETH	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	Pass	A
33	VtU9479	MUTYALA TARUN KRISHNA	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	NE	NE
34	VtU9519	KETHIREDDY PURNA CHANDRA REDDY	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	Pass	B
35	VtU10088	GORIPARTHI RADHA KRISHNA	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	Pass	B
36	VtU10089	PULI KIRAN KUMAR REDDY	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	Pass	S
37	VtU10090	BADE TIRUMALA PRASAD	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	NE	NE
38	VtU8916	KUNAM CHARUKESH SAI SRINIVAS	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	NE	NE
39	VtU8958	YAKASIRI JEEVAN SREERAM REDDY	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	Pass	B
40	VtU8969	KAMMILA LAVANYA NAG	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	Pass	A

SNo	Stu_Id	Stu_Name	Stu_Degree	Stu_Branch	Stu_Test_SubjectCode	Stu_Test_SubjectName	Stu_Subject_PassFail	Stu_Grade
41	VtU8990	VALLURU VOORJITHA	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	Pass	A
42	VtU9174	UDATHA KAVYA SRI	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	Pass	A
43	VtU9181	KAMPA GOWTHAM	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	Pass	A
44	VtU9209	ADAPALA BHANU PRAKASH REDDY	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	Pass	A
45	VtU10277	MOHAMMAD MANSUR ALI	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	NE	NE
46	VtU9833	DESU AKHIL	B.Tech	ECE	1157EC920	Fundamentals of Sensors and Actuators	Pass	A
47	VtU9858	PODAPATI ANOOHYA	B.Tech	ECE(E.S)	1157EC920	Fundamentals of Sensors and Actuators	Pass	A

DINT/2018/489 DINT/08-18/014

Vel Tech

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

Our Ref. No: 2018/ VF 109 & 110	**Your Ref. No**:

Submitted for the Approval:

Name of the Professor: Prof. Dr. Lung- Jieh Yang

University & Country : Tamkang University, Taiwan

Course Titles : 1. Introduction to Micro machining (15 Hrs)
2. Fundamentals of Sensors & Actuators (15 Hrs)

Department : Mechanical Engineering & Computer Science and Engineering

Students : Course 1: 2015-2019- 9 students
2016-2020- 1 No
& 10 Faculty Members

Course 2: 2017-2021, 46 Students
2016-2020, 3 students

Program date : 31.07.2018 to 10.08.2018(FN & AN)

Sl.No	Description	Amount in INR	Amount in TWD
1	Course Honorarium (Rs.3000 * 40Hrs) **(Net Amount & Tax Free)**	120000	53597
	Total	**120000**	**53597**

(Rupees ninety thousand only) one Lakh Twenty thousand !!

In this regard, I request your approval for transferring the amount in TWD to the following Account,

Name : Lung- Jieh Yang

Account No : 21868113175

Bank : First Commercial Bank

Branch : Tamsui

SWIFT Code: FCBKTWTPXXX

Entered in Budget Register
Pg. 22, Sl. 35
C. Sthaneswar
16/8/16.

Thank You,

16/8/2016

S. Sivaperumal

Director
International Relations
Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology
1997

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

School of Mechanical and Construction

Department of Mechanical Engineering

Specialized one credit course on

"Introduction to Micromachining"

(1157ME927)

by

Prof. Dr. Lung- Jieh Yang

Tamkang University, Taiwan

Held on

Date: July 30 to August 10, 2018

CURRICULUM VITAE



1. *Personal data*

- Lung-Jieh Yang
- Nationality: TAIWAN, R.O.C.
- Sex：Male
- DOB: Aug. 07, 1965
- Corresponding Address: Department of Mechanical and Electro-Mechanical Engineering, TamkangUniversity, #151, Ying-Chuan Rd., Tamsui, 25137, Taipei, TAIWAN, R.O.C.
- Phone no.: +886-2-2621-5656 ext 2768 or +886-932-159193
- Fax no.： +886-2-2620-9750
- E-mail: Ljyang@mail.tku.edu.tw

2. *Education*

- Ph.D., Institute of Applied Mechanics, National Taiwan University, TAIWAN, R.O.C., Dec., 1996
- M.S., Institute of Mechanical Engineering, Tamkang University, TAIWAN, R.O.C., June, 1991
- B.S., Department of Aerospace Engineering, National Cheng-Kung University, TAIWAN, R.O.C., June, 1987

3. *Current position and relevant experience*

Current position： Professor, Department of Mechanical and Electro-Mechanical Engineering, Tamkang University, TAIWAN (since Aug., 2012)

Relevant experience：

- Editor-in-Chief, Tamkang Journal of Science and Engineering, ISSN 1560-6686 (since Aug. 2011)
- Adjoint Research Fellow, National Applied Research Lab, TAIWAN (Aug. 2008~Aug. 2011)
- Professor, Department of Mechanical and Electro-Mechanical Engineering, Tamkang University, TAIWAN (since Aug., 2007)
- Director, Incubation Center, Tamkang University (Aug. 2008~Jul. 2009)
- Director, Instrument and Experiment Center, Tamkang University (Aug. 2003~Jul. 2008)
- Associate Professor, Department of Mechanical and Electro-Mechanical Engineering, Tamkang University, TAIWAN (Aug., 2002~Jul., 2006)

- Assistant Professor, Department of Mechanical Engineering, Tamkang University, TAIWAN (Aug., 1997~Jul., 2002)
- Visiting Associate, Department of Electrical Engineering, California Institute of Technology, USA (Sep., 2000~Aug., 2001)

4. ***Fields of specialty (limit to fields related to research)***
   - MEMS (micro electro mechanical systems)
   - Micro Aerial Vehicles

5. ***Major awards and honors***
   - IEEE *International Conference on Nano/Micro Engineered and Molecular Systems* (IEEE NEMS), TPC members: 2009-2012
   - Co-Chair, The 10th International Heat Pipe Symposium, Nov. 6-9, 2011.
   - Tamkang Research Awards: 1998, 2000, 2002-2012
   - Best Student Paper Award (Adviser), 2009 International Conference on Mechatronic System of Integration and Application, Tainan, Dec. 4-5, 2009.
   - Best Paper Award, The 10th Conference on Nano Engineering and Micro System Technology of Taiwan, Nov. 30-Dec. 1, 2006.
   - Best Student Paper Award (Adviser), The Third Asia-Pacific Conference On Transducers (APCOT-2006), Singapore, June 25-28, 2006.
   - NSC Research Awards: 1998.

Significant project-related publications in the past five years, including: journal papers, patents, periodical articles, or books, etc.

Journal papers:

1. Lung-Jieh Yang, Chung-Yu Kao, and Chin-Kwang Huang, 2012, "Development of flapping ornithopters by precision injection molding," ***Applied Mechanics and Materials***, v. 163, pp. 125-132.
2. Lung-Jieh Yang, A-Fu Kuo, and Cheng-Kuei Hsu, 2012, "Wing stiffness on light flapping micro aerial vehicles," ***Journal of Aircraft***, v. 49, n. 2, pp. 423-431.Lung-Jieh Yang and Tzu-Yuan Lin, 2011, "A PDMS-based thermo-pneumatic micropump with parylene inner walls," ***Microelectronic Engineering***, v. 88, n. 8, pp. 1894-1897.
3. Lung-Jieh Yang, 2010, "On gas-permeation in PDMS," ***Journal of Micromechanics and Microengineering***, v. 20, n. 11, 115033.
4. Yung-Chiang Chung, Li-Wei Lai, Lung-Jieh Yang, and Wei-Jie Liao, 2010 "Comparison of different metal film thicknesses of COC-substrate polymerase chain reaction chips with single-side and double-side heaters,"***Journal of Micro/Nanolithography, MEMS, and MOEMS***, v. 9 (3), 031006.

5. Yung-Chiang Chung,Guo-Yuan Hess, Fu-Wen Yeh, Hsieh-Cheng Han,Chien-Yuan Chen, Ching-Jiun Lee, Horn-Jiunn Sheen, and Lung-Jieh Yang, 2010, "Fabrication and testing of surface ratchets primed with hydrophobic parylene and hexamethyldisilazane for transporting droplets," ***Journal of Micro/Nanolithography, MEMS, and MOEMS***, v. 9 (1), 013035.
6. Lung-Jieh Yang, Cheng-Kuei Hsu, Hsieh-Cheng Han, and Jr-Ming Miao, 2009, "A light flapping micro-aerial-vehicle using electrical discharge wire cutting technique,"***Journal of Aircraft,*** v. 46, n. 6, pp. 1866-1874.
7. Lung-Jieh Yang, Cheng-Kuei Hsu, Chun-Yu Kao, Fu-Yuen Hsiao, and Chao-Kung Feng, 2009, "Weight reduction of flapping micro aerial vehicles using electrical discharge wire machining," ***Journal of Aeronautics, Astronautics and Aviations-Series A***, v. 41, n. 3, pp. 165-172.
8. Lung-Jieh Yang, 2009, "Gas permeation in PDMS in-situ monitoring by silicon pressure sensors," ***Advanced Materials Research***, v. 74, pp. 113-116.
9. P.-L. Lu, C.-L. Fan, L.-J. Yang, C.-W. Lin, F.-S. Jaw, 2009, "Novel fabrication of full parylene-isolated neuroprobes,"***Journal of Bionanoscience***, v. 3, n. 1, pp. 58-60.
10. Yu-Cheng Ou, Chih-Wen Hsu, Lung-Jieh Yang,Hsieh-Cheng Han, Yi-Wen Liu, and Chien-Yuan Chen, 2008, "Attachment of tumor cells to the micropatterns of glutaraldehyde (GA)-crosslinked gelatin," ***Sensors and Materials***, v. 20, n. 8, pp. 435-446.
11. Ling-ChihChien, Nan-Fu Chiu, Adam Shih-Yuan Lee, Lung-JiehYang,Yao-Joe Yang, Kuang-Chong Wu, Chih-Kung Lee, and Chii-Wann Lin, 2007, "Electrochemical detection of high-sensitivity C-reactive protein based on biomimic design of electroactive nanoassembly multilayers,"***Journal of Bionanoscience***, v. 1, n. 1, pp. 44–50.
12. Lung-Jieh Yang, Hsin-Hsiung Wang, Po-Chiang Yang, Y.-C. Chung, and T.-S. Shen, 2007, "New packaging method using PDMS for piezoresistive pressure sensors," ***Sensors and Materials***, v. 19, n. 7, pp. 391-402.
13. Lung-Jieh Yang, C.-K. Hsu, J.-Y. Ho, and C.-K. Feng, 2007, "Flapping wings with PVDF sensors to modify the aerodynamic forces of a micro aerial vehicle," ***Sensors and Actuators A: Physical***, v. 139, pp. 95-103.
14. Lung-Jieh Yang, K.-C. Ko, and J.-M. Wang, 2007, "A circular microchannel integrated with embedded spiral electrodes using for fluid transportation,"***Sensors and Actuators A: Physical***, v. 139, pp. 172-177.
15. Yan-You Lin, Chi-Wann Lin, Lung-Jieh Yang, and An-Bang Wang, 2007, "Micro-viscometer based on electrowetting on dielectric," ***ElectrochimicaActa***, **v. 52, pp. 2876-2883.**
16. Lung-Jieh Yang, C.-K. Hsu, C.-K. Feng, J.-Y. Ho, G.-H. Feng, and H.-M. Shih, 2007, "A flapping MAV with PVDF-parylene composite skin," ***Transactions of the Aeronautical and Astronautical Society of the Republic of China***, v. 39, n. 3, pp. 195-202.

17. Lung-Jieh Yang and Kuan-Chun Liu, 2007, "Surface tension-driven microvalves with large rotating stroke," ***Tamkang Journal of Science and Engineering***, v. 10, n. 2, pp. 141-146.
18. Lung-Jieh Yang, Hsin-Hsiung Wang, Jiun-Min Wang, Kuan-Chun Liu and Kai-Chung Ko, 2006, "Buckled-type valves integrated by parylene micro-tubes," ***Sensors and Actuators A: Physical***, Vol. 130-131, pp. 241-246.
19. Lung-Jieh Yangand Yu-Cheng Ou, 2005, "The micro patterning of glutaraldehyde (GA)-crosslinked gelatin and its application to cell-culture," ***Lab on a Chip***, Vol. 5, No. 9, pp. 979-984.
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2. L.-J. Yang, C.-Y. Kao, and C.-K. Huang, Mar. 23-25, 2012, "Development of flapping ornithopters by precision injection molding," Proc. of the 9th International Conference on History of Mechanical Technology and Mechanical Design, Tainan, Taiwan, pp. 123-130
3. L.-J. Yang and B.-H. Chen, Mar. 5-8, 2012, "Blood vessels by fractal gelatin," The 7th IEEE International Conference on Nano/Micro Engineered and Molecular Systems (IEEE NEMS 2012), Kyoto, Japan, pp. 242-245
4. L.-J. Yang et al., Nov. 6-9, 2011, "An ultra-small Wankel engine by MEMS process," The 10th International Heat Pipe Symposium, Tamsui, Taiwan, pp.272-276
5. L.J. Yang, C.W. Hsu, and Y.C. Ou, "The minimum time estimation for initiating tumor-cell attachment," June 5-9, Technical Digest of the 16th International

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7. A-Fu Kao, Lung-Jieh Yang, Fu-Wen Yeh, Feb. 20-23, 2011, "Fractal grooves applied to passive micro-mixers," The 6th IEEE International Conference on Nano/Micro Engineered and Molecular Systems, IEEE NEMS 2011, Kaohsiung, Taiwan
8. Lung-Jieh Yang, Chia-Chan Lee, Po-Hung Chen, Chih-Wen Hsu, Feb. 20-23, 2011, "Confined fractal patterns in gelatin," The 6th IEEE International Conference on Nano/Micro Engineered and Molecular Systems, IEEE NEMS 2011, Kaohsiung, Taiwan
9. L.-J. Yang and T.-Y. Lin, Sep. 19-22, 2010, "A PDMS-based thermopneumaticmicropump with parylene inner walls," MNE 2010, Genoa (Italy)
10. L.-J. Yang, J.-M. Maio, A.-F. Kuo, and C.-K. Hsu, Jun. 28-Jul.1, 2010, "Effect of flexural stiffness on the aerodynamic forces of flapping MAVs," The 28th AIAA Applied Aerodynamics Conference, Chicago (art. no. AIAA 2010-5077)
11. K.-F. Chang, Y.-C. Tsai, W. -P. Shih, and L.-J. Yang, Jan. 24-28, 2010, "An electro-active nano-valve array for reusable drug delivery system," Proceeding of the 23rd IEEE MEMS (**MEMS'10**) , Hongkong, pp. 1039-1042
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14. Ou, Y.-C., Hsu, C.-W., Yang, L.-J., Han, H.-C., and Chen, C.-Y., 18-21, Oct., 2009, "A cell culture system with better spatial and time resolution," Proc. of the 3rd IEEE International Conference on Nano/Molecular Medicine and Engineering (NanoMed 2009), Tainan, Taiwan, pp. 89-93
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21. L.-J. Yang et al., Jun. 23-26, 2008, "A biomimetic figure-of-eight flapping of micro aerial vehicles (MAVS) illuminated by LEDS," **APCOT-2008**, Tainan, TAIWAN, p. 145.
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26. K.-C. Ko, K.-Y. Ho, H.-H. Wang and Lung-Jieh Yang, Jun. 25-28, 2006,"A circular microchannel integrated with embedded spiral electrodes using for fluid transportation,"The 10th Conference on Nano Engineering and Micro System Technology of Taiwan, Nov. 30, 2006., Hsin-Chu, p.165 **(Best Paper Award)**
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43. Lung-Jieh Yang et al., Jan 20-23, 2003, "The micro ion drag pump using ITO electrodes," Proc. of the 16TH IEEE MEMS conf. **(MEMS'03)**, Kyoto, Japan, pp.112-115.
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45. Lung-Jieh Yang et al., Jan 20-24, 2002, "Photo-patternable gelatin as protection layers in surface micromachinings," Proc. of the 15TH IEEE MEMS conf. **(MEMS'02)**, Las Vegas, USA, pp.471-474.
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Patents:

1. Lung-Jieh Yang, 壓阻式壓力感測器及其封裝方法, ROC (Taiwan) patent, I258,868, 06/01/2005.
2. Yih-Min Chang and Lung-Jieh Yang, "Manufacturing method for the miniaturization of silicon bulkmachined pressure sensor," US patent 6,308,575, 10/30/2001.

Books:

Some Knowing about MEMS (in Chinese：認識微機電), Tsang-Hai Book Corp.（滄海書局）, TAIWAN, 1st ed. (ISBN 957-2079-31-X), 2001.

Introduction to Micro machining

Instructor: Prof. Lung-Jieh Yang, Tamkang University, Taiwan

Total hours: 20

Objective:

Micromachining is the manufacture technology of micro electromechanical systems (MEMS). It consists of silicon-based and non-silicon-based parts. Silicon micromachining and the complementary metal-oxide-semiconductor (CMOS) MEMS technology come from the semiconductor integrated-circuit (IC) processing. Meanwhile, the non-silicon-based micromachining includes LIGA and polymer MEMS technology.Miniaturization is of the primary concern of this technology. Moore's law, the foundry service, the infrastructure of the semiconductor industry, and even the concept of nanotechnology will also be addressed.

Content: (2 hours for each unit of the followings)

1. Introduction to micromachining and MEMS
2. Semiconductor processing (1): thin film coating
3. Semiconductor processing (2): photolithography
4. Semiconductor processing (3): etching
5. Silicon bulk micromachining
6. Silicon surface micromachining
7. CMOS MEMS technology
8. LIGA or HARMS technology
9. Polymer MEMS technology
10. VIVA and final exam

Score policy: HW and attendance(40%)+VIVA(30%)+final exam(30%)

DINT/04-18/042

DME/619
2/5/18
DA/6132
02/05/18

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

Office of International Programmes

Visiting Professor Programmes

Details of Professor & Course:

Name of the Professor	Prof. Dr.Lung Jieh Yang (CV Attached)
University & Country	Tamkang University, Taiwan
Title of the Course	Introduction to Micro Machining
Department	Mechanical Engineering
Dates of the Course	July 30 to August 10, 2018
Total No. of Hours	20
No. of Credits	1
Course Content	Attached

Prepared by:

Coordinator – Directorate of Intl. Relations

Forwarded by:

Director - Intl. Relations

30/04/18

HoD Dean Director (Academic) Vice Chancellor

SNo	Stu_Id	Stu_Name	Stu_Degree	Stu_Branch	Stu_Test_SubjectCode	Stu_Test_SubjectName	Stu_Subject_PassFail	Stu_Grade
1	VTU8114	S.B.RAHUL	B.Tech	MECHANICAL	1157ME927	Introduction to Micromachining	Pass	C
2	VTU6207	K PAVAN KUMAR	B.Tech	MECHANICAL	1157ME927	Introduction to Micromachining	Pass	A
3	VTU6305	CHANDRA SHEKHAR VERMA	B.Tech	MECHANICAL	1157ME927	Introduction to Micromachining	Pass	B
4	VtU7630	BONDA NIKHIL BABU	B.Tech	MECHANICAL	1157ME927	Introduction to Micromachining	Pass	A
5	VTU6306	AKASH.K	B.Tech	MECHANICAL	1157ME927	Introduction to Micromachining	Pass	B
6	VTU6631	ARAVIND.V	B.Tech	MECHANICAL	1157ME927	Introduction to Micromachining	Pass	B
7	VTU6103	ARAVIND T	B.Tech	MECHANICAL	1157ME927	Introduction to Micromachining	Pass	B
8	VTU6112	ROSHAN RAJ.R	B.Tech	MECHANICAL	1157ME927	Introduction to Micromachining	Pass	B
9	VTU6116	RAHUL RAJ R	B.Tech	MECHANICAL	1157ME927	Introduction to Micromachining	Pass	B
10	VTU8239	DEEPAK KUMAR CHAUBEY	B.Tech	MECHANICAL	1157ME927	Introduction to Micromachining	Pass	C
11	VTU6502	DEEPAK KUMAR D	B.Tech	MECHANICAL	1157ME927	Introduction to Micromachining	Pass	B

DINT/2018/489 DINT/08-18/014

Vel Tech

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

Our Ref. No: 2018/ VF 109 & 110	**Your Ref. No**:

Submitted for the Approval:

Name of the Professor: Prof. Dr. Lung- Jieh Yang

University & Country : Tamkang University, Taiwan

Course Titles : 1. Introduction to Micro machining (15 Hrs)
2. Fundamentals of Sensors & Actuators (15 Hrs)

Department : Mechanical Engineering & Computer Science and Engineering

Students : Course 1: 2015-2019- 9 students
2016-2020- 1 No
& 10 Faculty Members

Course 2: 2017-2021, 46 Students
2016-2020, 3 students

Program date : 31.07.2018 to 10.08.2018(FN & AN)

Sl.No	Description	Amount in INR	Amount in TWD
1	Course Honorarium (Rs.3000 * 40Hrs) **(Net Amount & Tax Free)**	120000	53597
	Total	**120000**	**53597**

(Rupees ninety thousand only) one Lakh Twenty thousand !!

In this regard, I request your approval for transferring the amount in TWD to the following Account,

Name : Lung- Jieh Yang

Account No : 21868113175

Bank : First Commercial Bank

Branch : Tamsui

SWIFT Code: FCBKTWTPXXX

Entered in Budget Register
Pg. 22, Sl. 35
C. Sthaneswar
16/8/16.

Thank You,

16/8/2016

S. Sivaperumal

Director
International Relations
Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology
1997

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

School of Mechanical and construction Engineering

Department of Aeronautical Engineering

Specialized one credit course on

"Missile Guidance Law"

(1157AE908)

by

Prof. Dr. Feng Tyan

Tamkang University, Taiwan

Held on

Date: July 16 to 20, 2018

First Name: Feng Last Name: Tyan



Education:

Ph.D. in Aerospace Engineering,
UNIVERSITY of MICHIGAN, Ann Arbor, Michigan, U.S.A.

Work Experience:

Professor in Department of Aerospace Engineering,
TAMKANG UNIVERSITY, Tamshui Dist., New Taipei City, Taiwan, R. O. C.

Associate Professor in Department of Aerospace Engineering,
TAMKANG UNIVERSITY, Tamshui Dist., New Taipei City, Taiwan, R. O. C.

Adjunct Associate Professor in Graduate Institute of Automation and Control,
Dept. Of Mechanical Engineering,
NATIONAL TAIWAN UNIVERSITY of SCI. and TECH.,
Taipei, Taiwan, R. O. C.

Adjunct Associate Professor in Dept. Of Weapon System Engineering.
CHUNG CHENG INST. OF TECH., Taoyuan, Taiwan, R. O. C.

Teaching Assistant in Department of Aerospace Engineering,
UNIVERSITY of MICHIGAN, Ann Arbor, Michigan, U.S.A.

Software Engineer,
MECHANICAL DYNAMICS, INC., Ann Arbor, Michigan, U.S.A.

Assistant Researcher,
CHUNG-SHAN INST. of SCI. and TECH., Taoyuan, Taiwan, R.O.C.

Title: Missile Guidance

Hours: 20Hrs

Contents:

1. Introductory material
2. Analysis of PN guidance law
3. Analysis of PN guidance law with bounded maneuverability
4. Adaptive PN guidance law
5. Impact angle constrained PN guidance law

DINT/04-18/045

DME/628/2018

DA/6142/03/05/18

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

Office of International Programmes

Visiting Professor Programmes

Details of Professor & Course:

Name of the Professor	Prof. Dr.Feng Tyan (CV Attached)
University & Country	Tamkang University, Taiwan
Title of the Course	Missile Guidance
Department	Aeronautical Engineering
Dates of the Course	July 16 to 20, 2018
Total No. of Hours	20
No. of Credits	1
Course Content	Attached

Prepared by:

Coordinator – Directorate of Intl. Relations

Forwarded by: 30/04/18.

Director - Intl. Relations

HoD

Dean

Director (Academic)

Vice Chancellor 18.05.18

Prof. Dr. A. T. Ravichandran
Head of the Department
Mechanical Engineering
Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

Course	Missile Guidance Law
Year/Sem	III/V

Attendance

S NO	Vtu No	ID number	First name	P	A	Taken sessions	Percentage
1	vtu6730	16UEAE0024	KARUPARTHI BALASYAM KUMAR .	9	1	10	90
2	vtu6731	16UEAE0056	SHIVA SAM KUMAR .	10	0	10	100
3	vtu6733	16UEAE0015	SUNIL KUMAR J	10	0	10	100
4	vtu6734	16UEAE0065	VEERAANJANEYULU V	9	1	10	90
5	vtu6735	16UEAE0033	MULABAGAL PAVAN KALYAN .	10	0	10	100
6	vtu6739	16UEAE0070	ASHISH KUMAR REDDY Y	10	0	10	100
7	vtu6740	16UEAE0063	BALAJI V	7	3	10	70
8	vtu6741	16UEAE0049	OM VIJAY S	9	1	10	90
9	vtu6742	16UEAE0072	SRI CHANDAN Y	10	0	10	100
10	vtu6743	16UEAE0071	SAI LIKITH GOWD Y	10	0	10	100
11	vtu6744	16UEAE0034	SHAIK MD BILAL N	10	0	10	100
12	vtu6746	16UEAE0055	SHAIK MASTHAN BASHA .	9	1	10	90
13	vtu6747	16UEAE0029	HARSHAVARDHAN REDDY M	8	2	10	80
14	vtu6748	16UEAE0011	KALYAN KUMAR G	10	0	10	100
15	vtu6749	16UEAE0064	KEERTHI SANKAR V	10	0	10	100
16	vtu6750	16UEAE0013	GRANDHI RAMARAJU .	10	0	10	100
17	vtu6752	16UEAE0008	DARA AASA .	10	0	10	100
18	vtu6753	16UEAE0050	SATHYA NARAYANAN S V V	10	0	10	100
19	vtu6754	16UEAE0077	JNANENDRA SAIDEEP B	9	1	10	90
20	vtu6755	16UEAE0005	JAGANADHARAO C	10	0	10	100
21	vtu6756	16UEAE0032	MOHAMMAD NASIR AKHTAR .	5	5	10	50
22	vtu6757	16UEAE0036	ALEKYA P	10	0	10	100
23	vtu6758	16UEAE0027	KURAKU NAGENDRA .	9	1	10	90
24	vtu6759	16UEAE0030	MANDVEKAR AAKASH KIRAN .	10	0	10	100
25	vtu6760	16UEAE0075	YUVAJA J	10	0	10	100
26	vtu6761	16UEAE0053	SATTARU JAGADEESH .	9	1	10	90
27	vtu6763	16UEAE0022	MAHESH NAGA SAI K	10	0	10	100
28	vtu6764	16UEAE0041	PRABHU PADA MOHAPATRA .	7	3	10	70
29	vtu6769	16UEAE0054	SHAIK APSAR BASHA .	10	0	10	100
30	vtu6770	16UEAE0007	SREE TEJA D	10	0	10	100
31	vtu6771	16UEAE0010	EKANSHU KHURANA .	6	4	10	60
32	vtu6772	16UEAE0045	RAJ VEER G V	7	3	10	70
33	vtu6773	16UEAE0025	KONDURU THULASIRAM .	9	1	10	90
34	vtu6774	16UEAE0020	HEMANTH KUMAR REDDY K	3	7	10	30
35	vtu6775	16UEAE0026	KUNAMAHIMA .	9	1	10	90
36	vtu6777	16UEAE0052	SAKTHIKUMAR K .	9	1	10	90
37	vtu6779	16UEAE0017	JAYSURYA SURESH IKHAR	3	7	10	30
38	vtu6782	16UEAE0021	KARTHEEK KUMAR REDDY K	3	7	10	30
39	vtu6788	16UEAE0079	ROHITH REDDY	9	1	10	90
40	vtu6864	16UEAE0078	KEERITHIKA R M	10	0	10	100
41	vtu7431	16UEAE0061	SYED SAIF ALI .	0	10	10	0
42	vtu7733	16UEAE0002	AKHILA R	10	0	10	100
43	vtu7779	16UEAE0073	YADAV HRISHIKESH BHASKAR .	6	4	10	60
44	vtu7818	16UEAE0014	VENKATASAI MANIKANTA I	10	0	10	100
45	vtu7819	16UEAE0038	PINNINTI PRANEETH KUMAR .	10	0	10	100
46	vtu7948	16UEAE0039	PILLI REVANTH REDDY .	9	1	10	90
47	vtu8020	16UEAE0003	ASHIQUE ROSH SURESH A	5	5	10	50
48	vtu8021	16UEAE0068	VISHWAJEETH KUMAR SRIVASTAVA .	7	3	10	70

Course	Missile Guidance Law						
Year/Sem	III/V						
Attendance							
S NO	**Vtu No**	**ID number**	**First name**	**P**	**A**	**Taken sessions**	**Percentage**
49	vtu8025	16UEAE0060	SUNNY RAMESH IZATE .	4	6	10	40
50	vtu8033	16UEAE0023	KAKARAPALLI SAI CHANDRA MOURYA .	7	3	10	70
51	vtu8055	16UEAE0043	PRANAV KUMAR .	5	5	10	50
52	vtu8056	16UEAE0035	NISHANTH KUMAR RAJ .	9	1	10	90
53	vtu8058	16UEAE0016	SINDHURI JAGADEESH .	8	2	10	80
54	vtu8092	16UEAE0048	RITHESH SINGH .	7	3	10	70
55	vtu8155	16UEAE0074	YOGESH KUMAR .	9	1	10	90
56	vtu8172	16UEAE0044	PRANEETH PEDADA .	9	0	9	100
57	vtu8207	16UEAE0019	K VISHNU VARDHAN .	8	2	10	80
58	vtu8211	16UEAE0057	SHRESHTH GUPTA .	7	3	10	70
59	vtu8225	16UEAE0040	PITTALA ABINAY .	8	2	10	80
60	vtu8228	16UEAE0058	SIDHESWAR MUDULI .	9	1	10	90
61	vtu8267	16UEAE0069	YEJARLA AJAY BABU .	0	10	10	0
62	vtu8382	16UEAE0062	TEKENDRA THAKUR .	5	5	10	50
63	vtu8406	16UEAE0051	SAHADASAN KHUTE .	5	5	10	50
64	vtu8417	16UEAE0004	BISOYI TARUN .	7	3	10	70
65	vtu8429	16UEAE0018	JERAN RAI .	8	2	10	80
66	vtu8467	16UEAE0059	SUDIPTA ROY .	8	2	10	80
67	vtu8532	16UEAE0500	LOKANAND D	7	3	10	70

SNo	Stu_Id	Stu_Name	Stu_Degree	Stu_Branch	Stu_Test_SubjectCode	Stu_Test_SubjectName	Stu_Subject_PassFail	Stu_Grade
1	VtU6730	KARUPARTHI BALA SYAM KUMAR	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
2	VtU6741	SAKE OM VIJAY	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
3	VtU6742	YERRAGUDI SRICHANDAN	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
4	VtU6743	YERRAMALA SAI LIKHITH GOWD	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
5	VtU6744	NANDYALA SHAIK MOHAMMAD BILAL	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
6	VtU6746	SHAIK MASTHAN BASHA	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
7	VtU6747	MACHIREDDY HARSHAVARDHAN REDDY	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
8	VtU6748	GORLA KALYAN KUMAR	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
9	VtU7431	SYED SAIF ALI	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
10	VtU7733	AKHILA R	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
11	VtU7779	YADAV HRISHIKESH BHASKAR	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	NE	NE
12	VtU7818	INAKOTI VENKATA SAI MANIKANTA	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
13	VtU7819	PINNINTI PRANEETH KUMAR	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
14	VtU7948	PILLI REVANTH REDDY	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
15	VtU8020	ASHIQUE ROSH SURESH A	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	NE	NE
16	VtU8021	VISHWAJEETH KUMAR SRIVASTAVA	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
17	VtU8025	IZATE SUNNY RAMESH	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	NE	NE
18	VtU8033	KAKARAPALLI SAI CHANDRA MOURYA	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
19	VtU8055	PRANAV KUMAR	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	NE	NE
20	VtU8056	NISHANT KUMAR RAJ	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
21	VtU8058	SINDHURI JAGADEESH	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
22	VtU8092	RITESH SINGH	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
23	VtU8155	YOGESH KUMAR	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
24	VtU8172	PRANEETH PEDADA	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
25	VtU8207	KALVA VISHNU VARDHAN	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
26	VtU8211	SHRESHTH GUPTA	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
27	VtU8225	PITTALA ABINAY	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
28	VtU6739	YARRAM ASHISH KUMAR REDDY	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
29	VtU6740	VASANTHAVADA BALAJI	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
30	VtU6734	VAJJA VEERANJANEYULU	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
31	VtU6735	MULABAGAL PAVAN KALYAN	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
32	VtU6749	VARADA KEERTHI SANKAR	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
33	VtU6750	GRANDHI RAMA RAJU	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
34	VtU6752	DARA AASA	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
35	VtU6753	SABBELLA VEERA VENKATA SATYANARAYANA REDDY	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
36	VtU6754	BAVISETTI JNANENDRA SAIDEEP	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
37	VtU6755	CHERUKURI JAGANNADHA RAO	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
38	VtU6756	MOHAMMAD NASIR AKHTAR	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	NE	NE
39	VtU6757	POTNURU ALEKYA	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
40	VtU6758	KURAKU NAGENDRA	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
41	VtU6759	MANDVEKAR AAKASH KIRAN	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA

SNo	Stu_Id	Stu_Name	Stu_Degree	Stu_Branch	Stu_Test_SubjectCode	Stu_Test_SubjectName	Stu_Subject_PassFail	Stu_Grade
42	VtU6760	YUVAJA K	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
43	VtU6761	SATTARU JAGADEESH	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
44	VtU6763	KONDAPALLI MAHESH NAGA SAI	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
45	VtU6764	PRABHU PADA MOHAPATRA	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
46	VtU8267	YEJARLA AJAY BABU	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	NE	NE
47	VtU8382	TEKENDRA THAKUR	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	NE	NE
48	VtU8406	SAHADASAN KHUTE	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	NE	NE
49	VtU8417	BISOYI TARUN	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
50	VtU8429	JERAN RAI	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
51	VtU8467	SUDIPTA ROY	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
52	VtU8471	S.ASSWAK HAMEED	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	NE	NE
53	VTU8532	LOKANAND D	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
54	VtU8228	SIDHESWAR MUDULI	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
55	VtU6770	DODDARAPU SREE TEJA	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
56	VtU6769	SHAIK APSAR BASHA	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
57	VtU6771	EKANSHU KHURANA	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
58	VtU6772	RAJVEER G V	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
59	VtU6773	KONDURU THULASI RAM	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
60	VtU6774	KODURU HEMANTH KUMAR REDDY	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	NE	NE
61	VtU6775	KUNA MAHIMA	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
62	VtU6777	SAKTHI KUMAR K	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
63	VtU6779	JAYSURYA SURESH IKHAR	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	NE	NE
64	VtU6782	KANDULA KARTHEEK KUMAR REDDY	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	NE	NE
65	VtU6788	VANCHA ROHITH REDDY	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
66	VtU6864	KEERTHIKA R M	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
67	VtU6731	SHIVA SAM KUMAR G	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA
68	VtU6733	JAVAJI SUNIL KUMAR	B.Tech	Aeronautical-Eng	1157AE908	Missile Guidance Law	RA	RA

DINT/2018/460 DINT/04-18/018

Vel Tech

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

Our Ref. No: 2018-2019/VF 58 & 59	**Your Ref. No:**

Submitted for the Approval:

Name of the Professor: Prof. Dr. Feng Tyan

University & Country : Tamkang University, Taiwan

Course Titles : 1. Missile Guidance laws (20Hrs)
2. State Estimation (20Hrs)

Department : Aeronautical Engineering

Students : Course 1: 2016-2020- 55 students
Course 2:2017-2021, 56 students

Program date : **Course 1:** July 9 to 20, 2018 (FN)
Course 2: July 9 o 20, 2018 (AN)

Sl. No	Description	Amount in TWD	Amount in INR
1	Course Honorarium (Rs.3000 * 40Hrs) **(Net Amount & Tax Free)** Course	53334	120000
2	Flight booking charges (Reimbursement) (1 TWD = 2.2504 as on 27th April 2018)	21,984	49474
3	Visa Processing Charges- Reimbursement (129 USD) (1USD= 29.9444 TWD as on 26th May 2018) (Bill Enclosed)	3863	8879
	Total	**79181**	**178164**

67 + 76 Std

(Rupees one lakh seventy eight thousand one hundred and sixty four only)

In this regard, I request your approval for transferring the amount in New Taiwan Dollar (TWD) to the following Account,

Entered in Budget Registe
Pg. 22, Sl. 28
23/7/18.

Name : Tyan, Feng

Bank name: Bank Sinopac

Account No: 70024412850357368

Branch: Taipei

Swift/BiC : SINOTWTP

Thank You,

S. Sivaperumal

Director
International Relations

Ok
25/7/2018

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

School of Mechanical and construction Engineering

Department of Aeronautical Engineering

Specialized one credit course on

"State Estimation"

(1157AE907)

by

Prof. Dr. Feng Tyan

Tamkang University, Taiwan

Held on

Date: July 9 to 13, 2018

First Name: Feng Last Name: Tyan



Education:

Ph.D. in Aerospace Engineering,
UNIVERSITY of MICHIGAN, Ann Arbor, Michigan, U.S.A.

Work Experience:

Professor in Department of Aerospace Engineering,
TAMKANG UNIVERSITY, Tamshui Dist., New Taipei City, Taiwan, R. O. C.

Associate Professor in Department of Aerospace Engineering,
TAMKANG UNIVERSITY, Tamshui Dist., New Taipei City, Taiwan, R. O. C.

Adjunct Associate Professor in Graduate Institute of Automation and Control,
Dept. Of Mechanical Engineering,
NATIONAL TAIWAN UNIVERSITY of SCI. and TECH.,
Taipei, Taiwan, R. O. C.

Adjunct Associate Professor in Dept. Of Weapon System Engineering.
CHUNG CHENG INST. OF TECH., Taoyuan, Taiwan, R. O. C.

Teaching Assistant in Department of Aerospace Engineering,
UNIVERSITY of MICHIGAN, Ann Arbor, Michigan, U.S.A.

Software Engineer,
MECHANICAL DYNAMICS, INC., Ann Arbor, Michigan, U.S.A.

Assistant Researcher,
CHUNG-SHAN INST. of SCI. and TECH., Taoyuan, Taiwan, R.O.C.

Title: state estimation

Duration: 20 Hrs

Contents:

1. Introductory material
2. Probability theory
3. Least Squares Estimation
4. Propagation of state and covariances
5. The discrete Kalman
6. The continuous-time Kalman filter
7. Nonlinear Kalman filter

DINT/04-18/044

DM6/626
3/5/18
DA/6141
03/05/2018

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

Office of International Programmes

Visiting Professor Programmes

Details of Professor & Course:

Name of the Professor	Prof. Dr.Feng Tyan (CV Attached)
University & Country	Tamkang University, Taiwan
Title of the Course	State Estimation
Department	Aeronautical Engineering
Dates of the Course	July 9 to 13, 2018
Total No. of Hours	20
No. of Credits	1
Course Content	Attached

Prepared by:

Coordinator – Directorate of Intl. Relations

Forwarded by: 30/04/18

Director - Intl. Relations

HoD Dean Director (Academic) Vice Chancellor

10.05.18

Prof. Dr.A.T. Ravichandran
Dean S.[illegible]

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

GUEST LECTURE FOR 2ND YEAR AERO												
COURSE NAME-STATE ESTIMATION												
YEAR/SEM:II/III												
S.NO	Vtu	Registration	Name of the Student	09-07-2018	10-07-2018	11-07-2018	12-07-2018	13-07-2018	16-07-2018	17-07-2018	18-07-2018	19-07-2018	20-07-2018
1	8604	17UEAE0009	BALASUBRAMANIYAM.V	P	P	P	P	P	P	P	P	P	P
2	8617	17UEAE0068	SOMA KISHORE	P	P	P	P	P	P	P	P	P	P
3	8622	17UEAE0022	HARISH KANNA M.K	A	P	P	A	P	P	P	P	P	P
4	8721	17UEAE0063	SHAIK IMRAN	A	P	P	P	P	P	A	P	A	P
5	8733	17UEAE0011	LIKHITH	A	P	P	P	P	P	A	P	A	P
6	8739	17UEAE0044	GRANDHI REVANTH	A	A	A	A	A	P	A	P	A	P
7	8748	17UEAE0052	D.MANIKANDAN	P	P	P	A	P	P	P	P	P	P
8	8756		MUHAMMAD ADNAN V A	P	P	P	A	P	P	A	P	A	P
9	8805		SHAIK .MUZZAMILL ALI	P	P	P	P	P	P	P	P	P	P
10	8824	17UEAE0025	ADITHYA.P	P	P	P	A	P	P	A	P	A	P
11	8939	17UEAE0035	J D PHANIKUMAR	P	P	P	P	P	P	P	P	P	P
12	8944	17UEAE0057	KOLLIPARA AAKASH	P	P	P	P	P	P	P	P	P	P
13	8966	17UEAE0007	RAMISETTY ROHIT NAGENDRA KUMAR	P	P	P	P	P	P	P	P	P	P
14	8997	17UEAE0043	ATLA PRADEEP	P	P	P	P	P	P	P	P	P	P
15	9042	17UEAE0069	MALLELA VENKATA SUMANTH	A	A	A	A	A	P	A	P	A	P
16	9049	17UEAE0030	SOMESHWAR ABHIJEETH PULIVARTHI	P	P	P	P	P	P	P	P	P	P
17	9061	17UEAE0077	K VIVEKVARDHAN REDDY	P	P	P	P	P	P	P	P	P	P
18	9063	17UEAE0004	THUMMALAPALLY ROHITH REDDY	P	P	P	P	P	P	P	P	P	P
19	9070	17UEAE0037	ANEM AKHIL	A	P	P	P	P	P	A	P	A	P
20	9098	17UEAE0028	KOTHAPALLI GURU SAI	P	P	P	P	P	P	P	P	P	P
21	9130	17UEAE0070	KAILA SURESH KUMAR	P	P	P	P	P	P	P	P	P	P
22	9162	17UEAE0016	SOMIREDDY RAJASEKHAR REDDY	P	P	P	P	P	P	P	P	P	P
23	9199	17UEAE0067	GANGASANI VENKATA RAMA KRISHNA REDDY	P	P	P	P	P	P	P	P	P	P
24	9200	17UEAE0065	SINGAMANENI SAI RAM	P	P	P	A	P	P	A	P	A	P
25	9216	17UEAE0041	SK.SONIYA	P	P	P	P	P	P	P	P	P	P
26	9227	17UEAE0027	LEKKALA NEMANI KUMAR	P	P	P	P	P	P	P	P	P	P
27	9231	17UEAE0033	S.KRISHNA MANIKESH	P	P	P	P	P	P	P	P	P	P
28	9314	17UEAE0031	KASI BHARGAVI	P	P	P	P	P	P	P	P	P	P
29	9484	17UEMT0032	KANIPAKAM BADRINATH	A	P	P	P	P	P	P	P	P	P
30	9504	17UEAE0038	KRISHNA KUMAR GOSAIN	P	P	P	P	P	P	P	P	P	P
31	9521	17UEAE0034	K THARUN SAI	P	P	P	A	P	P	A	P	A	P
32	9590	17UEAE0049	MOTAPOTHULA PRANAY	P	P	P	P	P	P	P	P	P	P
33	9595	17UEAE0081	SHANMUGHAM VANGARA	P	P	P	P	P	P	P	P	P	P
34	9603	17UEAE0075	TANELANKA TEJA SRI SATYA KISHORE	P	P	P	P	P	P	P	P	P	P
35	9607	17UEAE0032	KARI ADUTYA SUBHASH REDDY	P	P	P	P	P	P	P	P	P	P
36	9687	17UEAE0014	DONTHI SUSHAANTH REDDY	P	P	P	A	P	P	P	P	P	P
37	9757	17UEAE0050	M.BALAJI NAIK	P	P	P	A	P	P	P	P	P	P

GUEST LECTURE FOR 2ND YEAR AERO												
COURSE NAME-STATE ESTIMATION												
YEAR/SEM:II/III												
S.NO	**Vtu**	**Registration**	**Name of the Student**	**09-07-2018**	**10-07-2018**	**11-07-2018**	**12-07-2018**	**13-07-2018**	**16-07-2018**	**17-07-2018**	**18-07-2018**	**19-07-2018**	**20-07-2018**
38	9765	17UEAE0056	R.SANGEETHA	P	P	P	P	P	P	P	P	P	P
39	9765	17UEAE0010	R.SANGEETA	P	P	P	P	A	P	A	P	A	P
40	9800	17UEAE0012	BURADA ANIL KUMAR	A	P	P	A	A	P	A	P	A	P
41	9800	17UEAE0019	BURADA ANIL KUMAR	A	P	P	P	A	P	A	P	A	P
42	9831	17UEAE0040	DEBI PRASAD DEBASHIS JENA	P	P	P	A	P	P	P	P	P	P
43	9832	17UEAE0074	GUNDIKAYALA ROOPCHAND	×	P	P	P	P	P	P	P	P	P
44	9911	17UEAE0020	LALAM YERRAM NAIDU	P	P	P	P	P	P	P	P	P	P
45	9912	17UEAE0086	T.MURALI	P	P	P	P	P	P	P	P	P	P
46	9917	17UEAE0042	HARI PRASANTH R	A	A	P	A	A	P	A	P	A	P
47	9947	17UEAE0039	SURABATTULA BABLU	P	P	P	A	P	P	P	P	P	P
48	10007	17UEAE0048	M UDAYA KUMAR	P	P	P	A	P	P	A	P	A	P
49	10019	17UEAE0059	KUCHIPUDI BHANU TEJA	P	P	P	P	P	P	P	P	P	P
50	10034	17UEAE0053	MOHIT KUMAR SONKAR	P	P	P	P	P	P	P	P	P	P
51	10147	17UEAE0061	S.SMRUTHI	P	P	P	P	P	P	P	P	P	P
52	10333	17UEAE0062	MURUGESH T	A	A	A	A	A	P	A	P	A	P
53	10336	17UEAE0005	SAILESH	A	A	A	A	A	P	A	P	A	P
54	10338	17UEAE0045	SHAD AKHTER	A	P	P	A	A	P	A	P	A	P
55	10409	17UEAE0082	MAUSAM MALLA	P	P	P	P	P	P	P	P	P	P
56	10410	17UEAE0026	PRABIN GHIMIRE	A	A	P	A	A	P	P	P	P	P
57	10413	17UEAE0021	vignesh valsan	A	A	A	A	A	P	A	P	A	P
58	10414	17UEAE0015	JEWEL RUPINI	P	P	P	P	P	P	P	P	P	P
59	10439	17UEAE0023	S.P HARISH	P	P	P	P	A	P	P	A	P	A
60	10462	17UEAE0024	DURGA.D	P	P	P	P	P	P	P	P	P	P
61	10465	17UEAE0054	HOLLY FIELD PYNGROPE	A	P	P	A	P	P	P	P	P	P
62	10478	17UEAE0058	IRSHAD HUSSIAN	P	P	P	P	P	P	P	P	P	P
63	10478	17UEAE0036	IRSHAD HUSSAIN	A	P	P	P	P	P	P	P	P	P
64	10480	17UEAE0079	RHYS LAMA	P	P	P	P	P	P	P	P	P	P
65	10486	17UEAE0066	KONDAKA SHIVA SANKAR	P	P	P	P	P	P	P	P	P	P
66	10488	17UEAE0003	UPPU MOUNICA	A	A	A	A	A	P	A	P	A	P
67	10623	17UEAE0029	SHREYA RAI	P	P	P	P	P	P	P	P	P	P
68	10625	17UEAE0001	AMAN DEVANGAN	A	P	P	P	P	P	P	P	P	P
69	10633	17UEAE0083	KAJOLKUMARI	P	P	P	P	P	P	P	P	P	P
70	10712	17UEAE0072	CLETIUS JALA	A	A	A	A	P	P	A	P	A	P
71	10720	17UEAE0046	Symond Myrten	A	A	P	A	P	P	A	P	A	P
72	10730	17UEAE0080	MD EHTESHAM SUBHANI	A	A	P	A	A	P	A	P	A	P
73	10835	17UEAE0013	VAMSI SAI REDDY T	P	P	P	P	P	P	P	P	P	P
74	10838	17UEAE0071	DIPRANJAN GUPTA	P	P	P	P	P	P	P	P	P	P

GUEST LECTURE FOR 2ND YEAR AERO												
COURSE NAME-STATE ESTIMATION												
YEAR/SEM:II/III												
S.NO	**Vtu**	**Registration**	**Name of the Student**	**09-07-2018**	**10-07-2018**	**11-07-2018**	**12-07-2018**	**13-07-2018**	**16-07-2018**	**17-07-2018**	**18-07-2018**	**19-07-2018**	**20-07-2018**
75	10848	17UEAE0060	SOURADEEP MAITY	A	A	A	A	A	P	A	P	A	P
76	10855	17UEAE0085	SAGAR BHANDARI	P	P	P	P	P	P	P	P	P	P

SNo	Stu_Id	Stu_Name	Stu_Degree	Stu_Branch	Stu_Test_SubjectCode	Stu_Test_SubjectName	Stu_Subject_PassFail	Stu_Grade
1	VtU9521	KOGANTI THARUN SAI	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	AB
2	VtU9590	MUTAPOTHULA PRANAY	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
3	VtU10625	AMAN DEVANGAN	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
4	VtU9595	VANGARA SHANMUGHAM	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
5	VtU9603	T.T.S.SATHYA KISHORE	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
6	VtU10633	KAJOL KUMARI	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
7	VtU9607	K.A.SUBHASH REDDY	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
8	VtU9687	DONTHI SUSHAANTH REDDY	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
9	VtU10712	CLETIUS JALA	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	NE	NE
10	VtU9757	MUDE BALAJI NAIK	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
11	VtU9765	R.SANGEETA	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
12	VtU10730	MD EHTESHAM SUBHANI	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	NE	NE
13	VtU10835	T.VAMSI SAI REDDY	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
14	VtU9200	SINGAMANENI SAI RAM	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
15	VtU10336	SAILESH.G	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	NE	NE
16	VtU10338	SHAD AKHTER	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	NE	NE
17	VtU8997	A.PARDEEP	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
18	VtU9098	K.GURU SAI	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
19	VtU9130	KAILA SURESH KUMAR	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
20	VtU10333	MURUGESAN.T	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	NE	NE
21	VtU10409	MAUSAM MALLA	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
22	VtU9216	SK.SONIYA	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
23	VtU9227	L.NEMANI KUMAR	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
24	VtU10413	VIGNESH VALSAN	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	NE	NE
25	VtU10414	JEWEL RUPINI	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
26	VtU9800	BURADA ANIL KUMAR	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	NE	NE
27	VtU9831	DEBI PRASAD DEBASHIS JENA	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
28	VtU10838	DIPRANJAN GUPTA	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
29	VtU9832	GUNDIKAYALA ROOP CHAND	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
30	VtU9911	L.YERRAM NAIDU	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
31	VtU10848	SOURADEEP MAITY	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	NE	NE
32	VtU10855	SAGAR BHANDARI	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
33	VtU9912	T.MURALI	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
34	VtU10896	PURUSHOTTAM KUMAR YADAV	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
35	VtU9917	HARI PRASANTH.R	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	NE	NE
36	VtU9947	SURA BATTULA BABLU	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
37	VtU8604	BALASUBRAMANIYAM.V	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA

SNo	Stu_Id	Stu_Name	Stu_Degree	Stu_Branch	Stu_Test_SubjectCode	Stu_Test_SubjectName	Stu_Subject_PassFail	Stu_Grade
38	VtU10019	KUCHIPUDI BHANU TEJA	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
39	VtU10147	S SMRUTHI	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
40	VtU10480	RHYS LAMA	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
41	VtU8939	JD PHANI KUMAR	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	AB
42	VtU8966	RAMISETTY ROHIT NAGENDRA KUMAR	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
43	VtU9070	ANEM AKHIL	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
44	VtU10478	IRSHAD HUSSAIN	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
45	VtU10479	NAYAN JYOIT NATH	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
46	VtU10488	UPPU MOUNISHA	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	NE	NE
47	VtU10623	SHREYA RAI	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
48	VtU10486	KONDAKA SHIVA SANKAR	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
49	VtU9504	KRISHNA KUMAR GOSAIN	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
50	VtU10034	MOHIT KUMAR SONKAR	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
51	VtU8721	SHAIK IMRAN	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
52	VtU8733	C.LIKHITH	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
53	VtU8739	G.RANDHI REVANTH	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	NE	NE
54	VtU8748	D.MANIKANDAN	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
55	VtU8756	V.A.MUHAMMED ADNAN	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
56	VtU8805	SHAIK MUZZAMILL ALI	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	AB
57	VtU8824	ADITHYA.P	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
58	VtU9162	S.RAJA SEKAR REDDY	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
59	VtU9199	G.V.RAMA KRISHNA REDDY	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
60	VtU8944	K.AAKASH	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
61	VtU9042	M.VENKATA SUMANTH	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	NE	NE
62	VtU9049	SOMESHWAR ABHIJEETH.P	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	Pass	D
63	VtU9061	K.VIVEK VARDHAN REDDY	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
64	VtU9063	THUMMALAPALLY ROHITH REDDY	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
65	VtU9231	SK.MANIKESH	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	Pass	C
66	VtU9314	KASI BHARGAVI	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
67	VtU10439	S.P.HARISH	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
68	VtU10462	DURGA D	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
69	VtU10465	HOLLY FIELD PYNGROPE	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
70	VtU9484	KANIPAKAM BADRINATH	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
71	VtU8617	SOMA KISHORE	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
72	VtU8622	M.K.HARISH KANNA	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA
73	VtU10007	M UDAYA KUMAR	B.Tech	Aeronautical-Eng	1157AE907	State Estimation	RA	RA

DINT/2018/460 DINT/04-18/018

Vel Tech

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

Our Ref. No: 2018-2019/VF 58 & 59	**Your Ref. No:**

Submitted for the Approval:

Name of the Professor: Prof. Dr. Feng Tyan

University & Country : Tamkang University, Taiwan

Course Titles : 1. Missile Guidance laws (20Hrs)
2. State Estimation (20Hrs)

Department : Aeronautical Engineering

Students : Course 1: 2016-2020- 55 students
Course 2:2017-2021, 56 students

Program date : **Course 1:** July 9 to 20, 2018 (FN)
Course 2: July 9 o 20, 2018 (AN)

Sl. No	Description	Amount in TWD	Amount in INR
1	Course Honorarium (Rs.3000 * 40Hrs) **(Net Amount & Tax Free)** Course	53334	120000
2	Flight booking charges (Reimbursement) (1 TWD = 2.2504 as on 27th April 2018)	21,984	49474
3	Visa Processing Charges- Reimbursement (129 USD) (1USD= 29.9444 TWD as on 26th May 2018) (Bill Enclosed)	3863	8879
	Total	**79181**	**178164**

67 + 76 Std

(Rupees one lakh seventy eight thousand one hundred and sixty four only)

In this regard, I request your approval for transferring the amount in New Taiwan Dollar (TWD) to the following Account,

Entered in Budget Registe
Pg. 22, Sl. 28
23/7/18.

Name : Tyan, Feng

Bank name: Bank Sinopac

Account No: 70024412850357368

Branch: Taipei

Swift/BiC : SINOTWTP

Thank You,

S. Sivaperumal

Director
International Relations

Ok
25/7/2018

Vel Tech Delegates Visited **:** 1. Mr. K.V.D. Kishore Kumar (Vice President)

2. Dr. S. Sivaperumal (Director – International Relations)

University & Country **:** Southern Taiwan University of Science and Technology, Taiwan

Date Visited **:** 19.11.2018 to 29.11.2018

Purpose: Prof. Mr. K.V.D. Kishore Kumar, Vice-President and Dr. S. Sivaperumal, Director for International Relations visited Universities in Taiwan and Singapore towards exploring the possible academic & research cooper ation and strengthening the existing. As part of the visit, the delegation visited 16 universities during 19th to 29th Nov., 2018.





實習證明

Certificate



印度威爾科技大學 Chavvamaremma gari Sahithya 同學於

2019年10月1日至2019年12月31日期間參加豐譽營造BIM中心實習訓練，

並順利完成實習單位安排的實務工作，表現良好。

特頒此證

This is hereby certified that student Chavvamaremma gari Sahithya

from Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science

and Technology has satisfactorily completed the internship training

of DEBAO GROUP BIM Center from Oct. 1,2019 to Dec. 31,2019.

謝信輝

謝 信輝/董事長兼總經理

黃隆茂

黃 隆茂/BIM中心 經理

FENG YU GROUP

中華民國 108年 12月 31號

Scanned by TapScanner

TAMKANG UNIVERSITY

Certificate of Completion

This is to certify that Ms.Sahithi Rayidi has successfully completed the project entitled "Fuzzy Temporal Association Rule Mining" from September 2019 to December 2019 in the Department of Computer Science and Information Engineering at Tamkang University,Tamusi,New Taipei,Taiwan.

Chun-Hao Chen

Dr.Chun-Hao Chen
Professor

Certificate of Internship

This is to certify that

Neethish Kumar Unnam(安立勛)

Has successfully completed the research project on "EVANS FLAPPING MECHANISM AND IT'S FABRICATION OF CORRUGATED WING" from Sep. 09,2019 to June 15,2020(Two Semesters) in the Department of Mechanical and Electromechanical Engineering,

Tamkang University, Taiwan.

Professor and Chair, Yin-Tien Wang

June 17,2020

Scanned with CamScanner



實習證明

Certificate



印度威爾科技大學 BIBEK GUPTA 同學

於2019年09月01日至2020年02月29日期間參加豐譽企業團隊BIM中心實習訓練，並順利完成實習單位安排的實務工作，表現良好。

特頒此證

This is hereby certified that student BIBEK GUPTA from Vel TechRangarajan Dr. Sagunthala R&D Institute of Science and Technologyhas satisfactorily completed the internship training of FENG YU GROUP BIM centre from Sept 01,2019 to Feb. 29, 2020.

謝佶煒

謝 佶煒/董事長兼總經理
Ji-Yeh Hsieh/President

黃隆茂

Lung-Mao Huang

黃 隆茂/BIM中心 經理
Lung-Mao Huang/
Diretor of BIM Center

FENG YU GROUP

中華民國 109 年 02 月 29 日
Date 2020/02/29

Certificate of Internship

This is to certify that

Mr. Pinninti Praneeth Kumar

participated in the **Unmanned Aerial Vehicles Laboratory** as an exchange student, and fulfills the requirements of the **Unmanned Aerial Vehicles Laboratory** at the **Department of Aerospace Engineering** in the **Tamkang University.**

The program details are as follow:

Research Topic:	Avionics in the Unmanned Aerial Vehicles
Hosting Unit:	Department of Aerospace Engineering, Tamkang University
Principal Investigator:	Prof. Fu-Yuen Hsiao
Program Duration:	2020/03/02 – 2020/06/30

June 30th, 2020

陳步偉

陳步偉 **CHEN, Pu-Woei (Ph.D.)**

Chair, Associate Professor
Department of Aerospace Engineering
Tamkang University

Tamsui, Taiwan 251, Republic of China Tel: (886)2-2621-5656 ext. 2617 Fax: (886)2-26209746

Certificate of Internship

This is to certify that

Mr. Rajveer Geetha Venkatajalapathy

participated in the **Unmanned Aerial Vehicles Laboratory** as an exchange student, and fulfills the requirements of the **Unmanned Aerial Vehicles Laboratory** at the **Department of Aerospace Engineering** in the **Tamkang University**.

The program details are as follow:

Research Topic:	Avionics in the Unmanned Aerial Vehicles
Hosting Unit:	Department of Aerospace Engineering, Tamkang University
Principal Investigator:	Prof. Fu-Yuen Hsiao
Program Duration:	2020/03/02 – 2020/06/30

June 30th, 2020

陳步偉

陳步偉 **CHEN, Pu-Woei (Ph.D.)**

Chair, Associate Professor
Department of Aerospace Engineering
Tamkang University

Tamsui, Taiwan 251, Republic of China Tel : (886) 2-2621-5656 ext. 2617 Fax : (886) 2-26209746

Scanned with CamScanner

Certificate of Internship

This is to certify that

Ms. Kuna Mahima

participated in the **Unmanned Aerial Vehicles Laboratory** as an exchange student, and fulfills the requirements of the **Unmanned Aerial Vehicles Laboratory** at the **Department of Aerospace Engineering** in the **Tamkang University**.

The program details are as follow:

Research Topic:	Avionics in the Unmanned Aerial Vehicles
Hosting Unit:	Department of Aerospace Engineering, Tamkang University
Principal Investigator:	Prof. Fu-Yuen Hsiao
Program Duration:	2020/03/02 – 2020/06/30

June 30th, 2020

陳步偉

陳步偉 CHEN, Pu-Woei (Ph.D.)

Chair, Associate Professor
Department of Aerospace Engineering
Tamkang University

Tamsui, Taiwan 251, Republic of China Tel : (886) 2-2621-5656 ext. 2617 Fax : (886) 2-26209746

Certificate of Internship

This is to certify that

Mr. Vasanthavada Balaji

Has completed his research work on "DOWNWASH MEASUREMENT OF THE FLAPPING WING USING SOAP FILM EXPERIMENT" under Taiwan Experience Education Program from Feb. 1,2020 to June 30,2020 in the Department of Mechanical and Electromechanical Engineering

Tamkang University, Taiwan.

Professor and Chair, Yin-Tien Wang

June 30,2020

Certificate of Internship

This is to certify that

Ms. Potnuru Alekya

Has completed her research work on "STRUCTURAL DESIGN AND ANALYSIS OF 5MW WIND TURBINE BLADES UNDER CRITICAL AERODYNAMIC LOADS BY USING COMSOL" under Taiwan Experience Education Program from Feb. 1,2020 to June 30,2020in the Department of Mechanical and Electromechanical Engineering

Tamkang University, Taiwan

Professor and Chair, Yin-Tien Wang

June 30,2020

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: 24 OCT 2019

Admission Letter

To
Mr. Chiu, Yu-Chang,
Student, Tamkang University, Taiwan.

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Deemed to be University u/s 3 of UGC Act, Chennai is pleased to offer Admission to you for undertaking a Short Term Student Mobility under the guidance of its Faculty as a non – degree seeking Academic Exchange Student.

Further details are as given below:

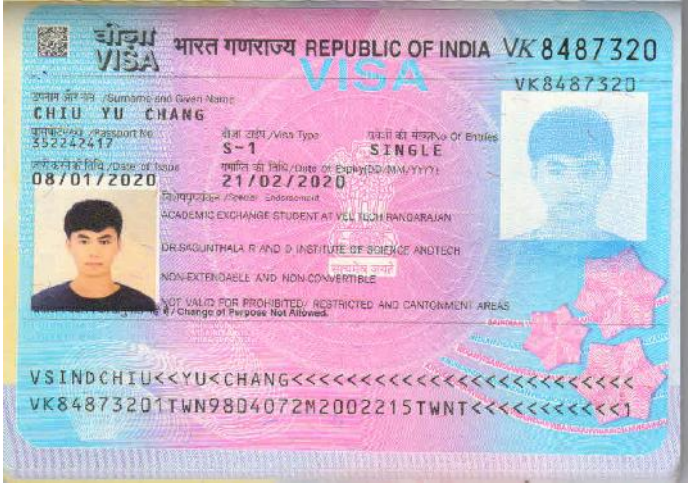
Student's Affiliation	Tamkang University, Taiwan Studying: Undergraduate Program 4th year, Mechanical & Electromechanical Engineering
Proposed Period	29.01.2020 to 11.02.2020
Program details	Short Term Student Mobility Experience at Vel Tech (wind tunnel, hands on experiments, and real airplane in Aeronautical department)
Passport Details	Passport No.: 352242417; Date of Birth: 07.04.1998 Nationality: Republic of China.
Salary / Stipend	No salary/stipend will be paid by Vel Tech.
Other Conditions	1. Vel Tech will waive the admission and tuition fees. 2. You will meet all the expenses related to travel, insurance, boarding & lodging at Chennai, incidentals, etc.
Contact Person at Vel Tech	Dr. S. Sivaperumal, Director International Relations. E Mail: dint@veltech.edu.in

(Dr. S. Sivaperumal)
Director International Relations

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

No.42, Avadi-Vel Tech Road, Avadi,
Chennai - 600 062, Tamil Nadu, India.
Toll Free : 1800 3070 6949
Landline : +91 44 2684 0262 / 2684 0605
Email : registrar@veltech.edu.in
Website : www.veltech.edu.in


VISAS
IMMIGRATION
ARRIVAL
29 JAN 2020
CHENNAI AIRPORT


VISA
भारत गणराज्य REPUBLIC OF INDIA VK 8487320
VISA
VK8487320
Surname and Given Name
CHIU YU CHANG
Passport No
352242417
Visa Type
S-1
No Of Entries
SINGLE
Date of Issue
08/01/2020
Date of Expiry(DD/MM/YYYY)
21/02/2020
Special Endorsement
ACADEMIC EXCHANGE STUDENT AT VELTECH RANGARAJAN
DR.SAGUNTHALA R AND D INSTITUTE OF SCIENCE ANDTECH
NON-EXTENDABLE AND NON-CONVERTIBLE
NOT VALID FOR PROHIBITED, RESTRICTED AND CANTONMENT AREAS
Change of Purpose Not Allowed.
VSINDCHIU<<YU<CHANG<<<<<<<<<<<<<<<<<<<<<<<<<<
VK84873201TWN9804072M2002215TWNT<<<<<<<<<<<1

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: 24 OCT 2019

Admission Letter

To
Mr. Mo, Kai-Jie,
Student, Tamkang University, Taiwan.

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Deemed to be University u/s 3 of UGC Act, Chennai is pleased to offer Admission to you for undertaking a Short Term Student Mobility under the guidance of its Faculty as a non – degree seeking Academic Exchange Student.

Further details are as given below:

Student's Affiliation	Tamkang University, Taiwan Studying: Undergraduate Program 4th year, Mechanical & Electromechanical Engineering.
Proposed Period	29.01.2020 to 11.02.2020
Program details	Short Term Student Mobility Experience at Vel Tech (wind tunnel, hands on experiments, and real airplane in Aeronautical department)
Passport Details	Passport No.: 352828600; Date of Birth: 27.10.1997 Nationality: Republic of China.
Salary / Stipend	No salary/stipend will be paid by Vel Tech.
Other Conditions	1. Vel Tech will waive the admission and tuition fees. 2. You will meet all the expenses related to travel, insurance, boarding & lodging at Chennai, incidentals, etc.
Contact Person at Vel Tech	Dr. S. Sivaperumal, Director International Relations. E Mail: dint@veltech.edu.in

(Dr. S. Sivaperumal)
Director International Relations

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

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Toll Free : 1800 3070 6949
Landline : +91 44 2684 0262 / 2684 0605
Email : registrar@veltech.edu.in
Website : www.veltech.edu.in

Ref No. L1/10000



भारत गणराज्य REPUBLIC OF INDIA VK 8487311

VISA

VISA VK8487311

उपनाम और नाम /Surname and Given Name
MO KAI JIE

पासपोर्ट संख्या /Passport No
352828600

वीज़ा प्रकार /Visa Type
S-1

प्रवेशों की संख्या/No Of Entries
SINGLE

जारी करने की तारीख /Date of Issue
08/01/2020

समाप्ति की तारीख/Date of Expiry(DD/MM/YYYY)
21/02/2020

विशेषताएं /Special Endorsement
ACADEMIC EXCHANGE STUDENT AT [illegible]
DR.SAGUNTHALA R AND D INSTITUTE OF SCIENCE AND TECH
NON-EXTENDABLE AND NON-CONVERTIBLE
NOT VALID FOR PROHIBITED, RESTRICTED AND CANTONMENT AREAS

प्रयोजन बदलने की अनुमति नहीं है / Change of Purpose Not Allowed.

IMMIGRATION - INDIA
A2-135
29 JAN 2020
ARRIVAL
ANNA INTAIRPORT, CHENNAI

VSINDMO<<KAI<JIE<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<
VK84873119TWN9710278M2002215TWNT<<<<<<<<<<<9

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: 22 NOV 2019

Admission Letter

To
Mr. Liu, I- Hung,
Student, Tamkang University, Taiwan.

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Deemed to be University u/s 3 of UGC Act, Chennai is pleased to offer Admission to you for undertaking a Short Term Student Mobility under the guidance of its Faculty as a non – degree seeking Academic Exchange Student.

Further details are as given below:

Student's Affiliation	Tamkang University, Taiwan Studying: Undergraduate Program, 4th year- Global Financial Management
Proposed Period	29.01.2020 to 11.02.2020
Program details	Short Term Student Mobility Experience at Vel Tech (wind tunnel, hands on experiments, and real airplane in Aeronautical department)
Passport Details	Passport No.: 353116469; Date of Birth: 27.12.1996 Nationality: Republic of China.
Salary / Stipend	No salary/stipend will be paid by Vel Tech.
Other Conditions	1. Vel Tech will waive the admission and tuition fees. 2. You will meet all the expenses related to travel, insurance, boarding & lodging at Chennai, incidentals, etc.
Contact Person at Vel Tech	Dr. S. Sivaperumal, Director International Relations. E Mail: dint@veltech.edu.in

22/11/19

(Dr. S. Sivaperumal)
Director International Relations

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

No.42, Avadi-Vel Tech Road, Vel Nagar,
Avadi, Chennai – 600 062, Tamil Nadu, India.
Toll Free : 1800 3070 6949
Landline : +91 44 2684 0262 / 2684 0605
Email : registrar@veltech.edu.in
Website :www.veltech.edu.in

Ref no: LI/10000

43

簽證 / VISAS


VISA
भारत गणराज्य REPUBLIC OF INDIA VK 8487290
VISA
VK8487290
Surname and Given Name
LIU IHUNG
Passport No
353116469
Visa Type
S-1
No. of Entries
SINGLE
Date of Issue
08/01/2020
Date of Expiry(DD/MM/YYYY)
21/02/2020
Special Endorsement
ACADEMIC EXCHANGE STUDENT AT VEL TECH RANGARAJAN
DR.SAGUNTHALA R AND D INSTITUTE OF SCIENCE AND TECH
NON-EXTENDABLE AND NON-CONVERTIBLE
NOT VALID FOR PROHIBITED/ RESTRICTED AND CANTONMENT AREAS
Change of Purpose Not Allowed.
IMMIGRATION INDIA
A2-143
30 JAN 2020
ARRIVAL
ANNA INTAIRPORT CHENNAI
VSINDLIU<<IHUNG<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<
VK84872905TWN9612279M2002215TWNT<<<<<<<<<<<5

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: 24 OCT 2019

Admission Letter

To
Mr. Saravana Kompala,
Student, Tamkang University, Taiwan.

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Deemed to be University u/s 3 of UGC Act, Chennai is pleased to offer Admission to you for undertaking a Short Term Student Mobility under the guidance of its Faculty as a non – degree seeking Academic Exchange Student.

Further details are as given below:

Student's Affiliation	Tamkang University, Taiwan Studying: Master program 2nd year, Mechanical & Electromechanical Engineering
Proposed Period	29.01.2020 to 11.02.2020
Program details	Short Term Student Mobility Experience at Vel Tech (wind tunnel, hands on experiments, and real airplane in Aeronautical department)
Passport Details	Passport No.: P7964512; Date of Birth: 07.05.1996 Nationality: Indian.
Salary / Stipend	No salary/stipend will be paid by Vel Tech.
Other Conditions	1. Vel Tech will waive the admission and tuition fees. 2. You will meet all the expenses related to travel, insurance, boarding & lodging at Chennai, incidentals, etc.
Contact Person at Vel Tech	Dr. S. Sivaperumal, Director International Relations. E Mail: dint@veltech.edu.in

(Dr. S. Sivaperumal)
Director International Relations

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

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Chennai - 600 062, Tamil Nadu, India.
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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: 24 OCT 2019

Admission Letter

To
Ms. Waikhom Reshmi,
Student, Tamkang University, Taiwan.

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Deemed to be University u/s 3 of UGC Act, Chennai is pleased to offer Admission to you for undertaking a Short Term Student Mobility under the guidance of its Faculty as a non – degree seeking Academic Exchange Student.

Further details are as given below:

Student's Affiliation	Tamkang University, Taiwan Studying: PhD program 2nd year, Mechanical & Electromechanical Engineering
Proposed Period	29.01.2020 to 11.02.2020
Program details	Short Term Student Mobility Experience at Vel Tech (wind tunnel, hands on experiments, and real airplane in Aeronautical department)
Passport Details	Passport No.: M1315744; Date of Birth: 01.03.1991 Nationality: Indian.
Salary / Stipend	No salary/stipend will be paid by Vel Tech.
Other Conditions	1. Vel Tech will waive the admission and tuition fees. 2. You will meet all the expenses related to travel, insurance, boarding & lodging at Chennai, incidentals, etc.
Contact Person at Vel Tech	Dr. S. Sivaperumal, Director International Relations. E Mail: dint@veltech.edu.in

(Dr. S. Sivaperumal)
Director International Relations

Dr. S. Sivaperumal
Director International Relations
Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
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Website : www.veltech.edu.in

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

School of Mechanical and Construction

Department of Aeronautical Engineering

Specialized course on

"Airplane Stability and Control"

(1151AE112)

by

Prof. Dr. Feng Tyan

Tamkang University, Taiwan

Held on

Date: January 20 to February 14, 2020

Prof. Feng Tyan



Professor, Department of Aerospace Engineering, Tamkang University, Taiwan.

Specialization: Optimal Control, Robust Control、
Dynamics, Computational Dynamics

Educational Background:

Ph.D., University of Michigan, Ann Arbor, Michigan, USA

Experiences:

- Associate Professor, Dept. of Aerospace Engineering, TKU
- University of Michigan Dept. of Aerospace Engineering TA & RA
- Mechanical Dynamics Inc.ADAMS Group Software Engineer
- Assistant Research Fellow, Chung Shan Institute of Science and technology

COURSE CODE	COURSE TITLE	L	T	P	C
1151AE112	AIRPLANE STABILITY AND CONTROL	3	0	0	3

Course Category:

Programme core

a. Preamble:

This course introduces about the stability and control of an aircraft. The stability and control are the two important pre-requisites of a safe flight. The six-degree-of-freedom differential equations of motion are introduced. Then the linearized perturbed state equations of motion are derived. Important topics in this course are: Longitudinal static and dynamics stability, stick fixed and free neutral points and static margin, lateral-directional static and dynamic stability, trim condition, longitudinal-lateral-directional coupling, control and maneuverability, stick fixed and free maneuverer points, stability and control derivatives and handling qualities and control response.

b. Prerequisite Courses:

- Linear system analysis and control
- Airplane performance

c. Related Courses:

- Aircraft Design
- Autopilot Design
- Flight Mechanics and Control Laboratory

d. Course Educational Objectives:

- To introduce the concepts of static and dynamic stability of airplanes in stick fixed and stick free conditions.
- To introduce the concept of control of airplanes under various operating conditions

e. Course Outcomes:

Upon the successful completion of the course, students will be able to:

CO Nos.	Course Outcomes	Knowledge Level (Based on revised Bloom's Taxonomy)
CO1	Describe the concepts of stability and control and Determine static longitudinal stability criteria for a stable airplane	K2
CO2	Determine static longitudinal control derivatives, and Estimate the Maneuvering stability of an aircraft.	K3
CO3	Explain the static lateral and directional stability and control derivatives, and criteria for a stable airplane	K3
CO4	Determine the stability and control derivatives of an airplane	K3
CO5	Discuss the various dynamic instabilities of an aircraft motion	K2

f. Correlation of COs with POs:

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	**H**	**L**		**H**			**H**	**H**				
CO2	**H**	**L**		**H**			**H**	**H**				
CO3	**H**	**L**		**H**			**H**	**H**				
CO4	**H**	**L**		**H**			**H**	**H**				
CO5	**H**	**L**		**H**			**H**	**H**				

H- High; M-Medium; L-Low

g. Course Contents:

UNIT-I INDRODUCTION TO AIRPLANE STABILITY AND STATIC LONGITUDINAL STABILITY L-9

Degree of freedom of a system - Static and dynamic stability - Need for stability in an airplane - Purpose of controls - Inherently and marginally stable airplanes, Longitudinal Stability criterion – Contribution of wing and tail (Aft tail- Elevator & Forward tail –Canard) to pitching moments - Effect of fuselage and nacelles - Power effects - Stabilizer setting and center of gravity location. Control fixed neutral point. Stability margins.

UNIT-II STATIC LONGITUDINAL CONTROL AND MANAUVERING STABILITY L-9

Elevator power– Elevator to trim. Trim gradients. Effects of releasing the elevator. Hinge moment coefficients – Control forces to trim. Control free neutral point – Trim tabs. Aerodynamic balancing of control surfaces. Means of augmentation of control. Contribution of pitch damping to pitching moment of flight vehicle - Effect on trim and stability. Control deflections and control forces for trim in symmetric maneuvers and coordinated turns. Control deflection and force gradients. Control fixed and control free maneuver stability. Maneuver points. Maneuver margins.

UNIT-III STATIC LATERAL - DIRECTIONAL STABILITY AND CONTROL L-9

Dihedral effect - Coupling between rolling and yawing moment - Adverse yaw - Aileron power - Aileron reversal. Weather cocking effects – Rudder power. Lateral and directional stability- definition. Control surface deflections in steady sideslips, rolls and turns one engine inoperative conditions - Rudder lock.

UNIT-IV DYNAMIC EQUATIONS FOR FLIGHT VEHICLE: L-9

Equations of motion of a rigid body, Inertial forces and moments. Equations of motion of flight vehicles, aerodynamic forces and moments, Decoupling of longitudinal and lateral-directional equations. Linearization of equations, Aerodynamic stability and control derivatives, Relation to geometry, flight configuration, Effects of power, compressibility and flexibility.

UNIT-V DYNAMIC STABILITY ANALYSIS: L-9

Solutions to the stability quartic of the Linearized equations of motion. The principal modes. Phugoid, Short Period Dutch Roll and Spiral modes - Further approximations. Restricted degrees of motion. Solutions. Response to controls. Auto rotation and spin.

Total Periods: 45

h. Learning Resources

i. Text Books:

1. Robert C. Nelson, Flight Stability and Automatic Control, 2nd Edition, McGraw Hill, 1997
2. Courtland D. Perkins, Robert E. Hage, Airplane Performance, Stability and Control, 1st Edition, John Wiley, New York 1949

ii. References:

1. Bernard Etkin, Lloyd Duff Reid, Dynamics of Flight: Stability and Control, 3rd Edition, John Wiley, New York 1995
2. Warren F. Phillips., Mechanics of Flight, Second Edition, Wiley,2009
3. Thomas R. Yacht, Introduction to Aircraft Flight Mechanics: Performance, Static Stability, Dynamic Stability, Feedback Control and State-Space Foundations,2nd Revised Edition, AIAA Education Series, 2014
4. Bandu N. Pamadi, Performance, Stability, Dynamics, and Control of Airplanes, 2nd Edition, AIAA Education Series, 2004
5. Louis V. Schmidt, Introduction to Aircraft Flight Dynamics, 1st Edition, AIAA Education Series, 1998
6. Michael V. Cook., Flight Dynamics Principles: A Linear Systems Approach to Aircraft Stability and Control, 3rd edition, Butterworth-Heinemann
7. Nandan K. Sinha, N. Ananthkrishnan, Elementary Flight Dynamics with an Introduction to Bifurcation and Continuation Methods, 1st Edition, CRC Press, 2013
8. Roskam, J., Airplane Flight Dynamics and Automatic Flight Controls part I, DAR Corporation, 2001.

DINT/09-19108

RC

DA/13049/12/09/19.

VC/19/1012/17/09/19

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

Details of Professor & Course:

Name of the Professor	Prof. Dr. Feng Tyan (CV Attached)
University & Country	Tamkang University, Taiwan
Title of the Course	1151AE112- Airplane Stability and Control
Department	Aeronautical Engineering
Dates of the Course	January 20th to February 14th, 2020 (4 Weeks)
Total No. of Hours	45
No. of Credits	3
Category	Programme Elective
Course Content	Attached

Prepared by: 9/9/19.

Coordinator – Directorate of Intl. Relations

Forwarded by: 09/09/19

Director – Directorate of Intl. Relations

HoD

Dean 10/9

Prof. Dr.A.T. Ravichandran
Dean SoMC

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

Director (Academic)

Vice Chancellor

Prof.V. S. S. Kumar
Vice Chancellor

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

SNo	Stu_Id	Stu_Name	Stu_Degree	Stu_Branch	Stu_Test_SubjectCode	Stu_Test_SubjectName	Stu_Subject_PassFail	Stu_Grade
1	VtU10478	IRSHAD HUSSAIN	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	C
2	VtU10409	MAUSAM MALLA	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	A
3	VtU10414	JEWEL RUPINI	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	A
4	VtU10462	DURGA D	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	S
5	VtU10623	SHREYA RAI	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	A
6	VtU10625	AMAN DEVANGAN	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	A
7	VtU10633	KAJOL KUMARI	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	C
8	VtU10034	MOHIT KUMAR SONKAR	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	A
9	VtU10480	RHYS LAMA	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	C
10	VtU10486	KONDAKA SHIVA SANKAR	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	B
11	VtU10838	DIPRANJAN GUPTA	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	A
12	VtU8805	SHAIK MUZZAMILL ALI	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	A
13	VtU8939	JETTY DINDIBA PHANIKUMAR	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	B
14	VtU10465	HOLLY FIELD PYNGROPE	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	B
15	VtU10147	S SMRUTHI	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	A
16	VtU10019	KUCHIPUDI BHANU TEJA	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	C
17	VtU8604	BALASUBRAMANIYAN V	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	A
18	VtU10835	T.VAMSI SAI REDDY	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	A
19	VtU8966	RAMISETTY ROHIT NAGENDRA KUMAR	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	B
20	VtU9227	LEKKALA NEMANI KUMAR	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	B
21	VtU9199	GANGASANI VENKATA RAMAKRISHNA REDDY	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	B
22	VtU9231	K MANIKESH PATNAIK SANTHIMAHANTI	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	A
23	VtU9200	SINGAMANENI SAI RAM	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	A
24	VtU10709	ABHISHEK DASGUPTA	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	B
25	VtU10712	CLETIUS JALA	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	C
26	VtU9314	KASI BHARGAVI	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	A
27	VtU9098	KOTHAPALLI GURU SAI	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	B
28	VtU9484	KANIPAKAM BADRINATH	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	C
29	VtU8944	KOLLIPARA AAKASH	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	A
30	VtU9063	THUMMALAPALLY ROHITH REDDY	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	S
31	VtU9070	ANEM AKHIL	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	B
32	VtU9216	SHAIK SONIYA	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	A
33	VtU8756	MUHAMMAD ADNAN V A	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	B
34	VtU8733	CHALICHEEMALA LIKHITH	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	A
35	VtU9130	KAILA SURESHKUMAR	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	B
36	VtU9061	KAMIREDDY VIVEKVARDHAN REDDY	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	B
37	VtU8748	MANIKANDAN.D	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	B
38	VtU9042	MALLELA VENKATA SUMANTH	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	A
39	VtU9603	TANELANKA TEJA SRI SATYA KISHORE	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	B

SNo	Stu_Id	Stu_Name	Stu_Degree	Stu_Branch	Stu_Test_SubjectCode	Stu_Test_SubjectName	Stu_Subject_PassFail	Stu_Grade
40	VtU9607	KARRI ADITYA SUBHASH REDDY	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	B
41	VtU10855	SAGAR BHANDARI	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	A
42	VtU10856	AWADHESH KUMAR	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	D
43	VtU8617	SOMA KISHORE	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	B
44	VtU9504	KRISHNA KUMAR GOSAIN	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	A
45	VtU10439	S.P.HARISH	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	A
46	VtU11063	YELLA HARI PRASAD	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	A
47	VtU9765	R SANGEETA	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	B
48	VtU9049	SOMESHWAR ABHIJEETH PULIVARTHI	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	A
49	VtU9687	DONTHI SUSHAANTH REDDY	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	A
50	VtU9947	SURABATTULA BABLU	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	A
51	VtU10896	PURUSHOTTAM KUMAR YADAV	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	A
52	VtU10338	SHAD AKHTER	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	B
53	VtU9590	MOTAPOTHULA PRANAY	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	A
54	VtU9595	VANGARA SHANMUGHAM	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	B
55	VtU9911	LALAM YERRAM NAIDU	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	S
56	VtU9912	T MURALI	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	S
57	VtU9800	BURADA ANILKUMAR	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	C
58	VtU10730	MD EHTESHAM SUBHANI	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	B
59	VtU9162	SOMIREDDY RAJASEKHAR REDDY	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	B
60	VtU8997	ATLA PARDEEP	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	A
61	VtU9831	DEBI PRASAD DEBASHIS JENA	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	B
62	VtU9832	GUNDIKAYALA ROOPCHAND	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	A
63	VtU10007	M UDAYA KUMAR	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	A
64	VtU10479	NAYAN JYOIT NATH	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	NE	NE
65	VtU9757	MUDE BALAJI NAIK	B.Tech	Aeronautical-Eng	1151AE112	Airplane Stability and Control	Pass	B

विजया बैंक
VIJAYA BANK

वेलटेक इंजीनियरिंग कालेज शाखा, तमिलनाडु – 600062
VEL-TECH ENGINEERING COLLEGE, BRANCH, Avadi, Tamil Nadu 600062
IFSC: VIJB0003802

VALID FOR 3 MONTHS ONLY FROM THE DATE OF ISSUE

0	9	1	2	2	0	1	9
D	D	M	M	Y	Y	Y	Y

TYAN,FENG

Pay _____ या धारक को or Bearer

रूपये Rupees Forty Six Thousand Nine Hundred Forty Eight Only

अदा करें ₹ **46,948.00

A/c. No. 380206021000008

VEL TECH RANGARAJAN DR.SAKUNTHALA R & D
INSTITUTE OF SCIENCE AND TECHNOLOGY

AUTHORIZED SIGNATORIES

0 25/01/2019

Payable at all our branches for transfer and clearing

Please sign above

SECURITY PRINTERS OF INDIA PVT. LTD. KANPUR / CTS-2010

⑈628532⑈ 600029026⑆ 380279⑈ 11

OUTWARD REMITTANCE APPLICATION – A2 CUM LRS DECLARATION

बैंक ऑफ़ बड़ौदा Bank of Baroda

Branch Name –

(To be completed by the applicant in block letters using black ink pen)

Application for Purchase of Foreign Exchange

Remittance Scheme selected (A) Non - LRS ☑ (B) Liberalized Remittance Scheme (LRS) ☐

I. Details of the Applicant (Remitter)

Applicant Name	Vel Tech Rangarajan Dr. Sagunthala R&D Institute of science & technology.		
Applicant Address	400 feet, outer Ring Road, Avadi, ch-62.		
Mobile of Contact Person	+338808800/ 8754484372.	PAN No.*	AABTV8852A

(* PAN no. is mandatory for all resident customers)

II. Details of Foreign Exchange required (Fill-up either II a or II b) **Foreign Bank Charges :** ☐ Sharing ☐ Own Account

II a. For remittance of fixed amount of Foreign Currency

Foreign Currency	USD	FC Amount In Words	Six Hundred and seventy Nine and Thirty Nine cents (USD)
FC Amt in figures	679.39		

(OR) II b. For remittance in Foreign Currency equivalent to Fixed Rupee Amount

Foreign Currency		INR Amount In Words	
INR Amt in figures			

II c. Purpose of Remittance with Purpose Code (For details refer Annexure – III)

III. I / We authorize you to debit my / our below Account /s

EEFC/RFC/DDA	
CA/ CC/ OD/ SB	38020602 1000008

III a. Please issue

☑ Telegraphic Transfer	☐ Demand Draft
☐ Travellers Cheque	☐ Currency Note

III. I / We authorize you to debit my / our below Account /s for charges (if different from above accounts)

CA/ CC/ OD/ SB	

*For Bank of Baroda charges please refer our website www.bankofbaroda.co.in

IV. Beneficiary Name

TYAN, FENG

IV a. Beneficiary Address

3rd Floor, NO-33, lane 59, Muzha Road, Section 1, Wenshan District, Taipei, Taiwan - 11642

IV b. Beneficiary A/c Number (Incase of TT)

2356806 6932

IV c. Name of the Bank where the beneficiary A/c is maintained (In case of TT)

First commercial Bank

IV d. SWIFT & SORT Code details of beneficiary Bank (In case of TT)

IBAN for remittance made to UK, Europe, Bahrain Saudi Arabia & UAE		Transit Code for remittance made to Canada	
Sort Code for remittance to UK (or) BSB Code for remittance to Australia		SWIFT code (or) routing Number of beneficiary bank	FCBKTWTPXXX

IV e. Beneficiary Bank address including Country at which the beneficiary maintains A/c (mandatory in case of TT in CAD & JPY Currencies)

Shuang Ho Branch, Taiwan.

Date: 04 (DD) 01 (MM) 2020 (YYYY)

Signature of Remitter/ POA (or) Mandate Holder/ Guardian in case of Minor / Authorised Signatory

Enclose necessary supporting documents as per Annexure-1.

✂ ---------- TEAR IT FROM HERE ----------

-: ACKNOWLEDGMENT (To be retained by the customer):-

Received an application for _____ (request type) for the amount of _____ from M/s _____ on _____ at _____ AM/PM for its onward submission to TFBO, Gift City for further processing vide Acknowledgement Number/Reference ID: _____.

Date: _____

Seal & Sign of Branch Official

बैंक ऑफ़ बड़ौदा Bank of Baroda — OUTWARD REMITTANCE APPLICATION – A2 CUM LRS DECLARATION

IV f. Furnish the following details of CORRESPONDENT BANK if the Foreign Currency is sent to a Country other than the home Country of the Currency (Eg. Remitting GBP currency to a beneficiary residing in Australia)

SWIFT CODE	CORRESPONDENT BANK NAME
FCBKTWTPXXX	First Commercial Bank

IV g. *Forward Contract Details(if booked and to be utilised for this transaction):*

Forward Contract Number:		Date:	
Forward Contract Amount:		Due Date of Contract:	
Amount to be utilized			

V. If the purpose selected is one of the below then it is mandatory to furnish the details sought for

Maintenance	Relationship of beneficiary (Refer to Annexure – II)	
Purchase of Immovable Property	The location of property being purchased (Country /State)	Country _____ State_____
Education	Student Name and Student ID (if any). Country of study abroad	
Investment abroad (Select the nature of investment)	❑ Equity Shares ❑ Mutual Funds ❑ Venture Capital Fund ❑ Debt Security ❑ Promissory Notes ❑ Others (Specify)	For shares, company name Stock exchange where listed _____ Listed /Unlisted (Please indicate)

VI. Furnish below if a message to be sent along with wire transfer on your behalf: Flight Ticket Reimbursement by Vel Tech

To be filled in by residents only if the remittance is made under LRS

Declaration for purchase of Foreign Exchange under the Liberalized Remittance Scheme (LRS) of USD 250,000/- for Resident Individuals

Mandatory details to be provided for remittance under LRS:

Source of funds for remittance under LRS	

Furnish below (if applicable) the details of the remittance made under Liberalized Remittance Scheme in the financial year (April to March) 201__ to 201__

SN	DATE	CURRENCY	VALUE	NAME AND ADDRESS OF AD BRANCH/ FFMC THROUGH WHICH THE TRANSACTION HAS BEEN EFFECTED
1				
2				
3				
4				

Date: 04 (D D) 01 (M M) 2020 (Y Y Y Y)

Signature of Remitter/ POA (or) Mandate Holder/ Guardian in case of Minor / Authorised Signatory

Enclose necessary supporting documents as per Annexure-1.

OUTWARD REMITTANCE APPLICATION – A2 CUM LRS DECLARATION

I / We hereby declare that the transaction mentioned above doesn't involve, and is not designed for any purpose for which the drawing of foreign exchange is prohibited under rule 3 of the FEMA Current A/c transactions Rules, 2000 read with schedule Itherefore ofViz,

1. Travel to Nepal & or Bhutan
2. Transaction with a person resident in Nepal or Bhutan
3. Remittance out of lotterywinnings
4. Remittance of Income from Racing / riding etc. or any other hobby.
5. Remittance for purchases of Lottery tickets, banned or prescribed magazines, football pools, sweep stakes, schemes involving money circulations, securing prize money awards etc.
6. Payment of commission on exports made towards equity investments in joint ventures / wholly owned subsidiaries abroad of IndianCompanies
7. Remittance of dividend by any company to which the requirement of dividend balancing is applicable.
8. Payment of commission on export under rupee state credit route except commission up to 10% in invoice value of exports of Tea& Tobacco.
9. Payment related to "Call back services" or telephones.
10. Remittance of interest income on funds held in non-resident special rupee a/c schemes.

I / We, being a person(s) resident outside India, here by declare that under Sec 4(b) of FEMA Permissible Capital A/c Transaction regulation, 2000, the transaction mentioned above doesn't involve and is not designed for any repatriation outside India out of the proceeds of any investment in India, in any form, in any Company, Partnership firm (or) Proprietary concern or any entity, whether incorporated or not, which is engaged or proposes to engage

a. In the business of chit funds or
b. As Nidhi company or
c. In agricultural orplantation activity, or
d. In real estate business, or construction of farm houses (real estate business shall not include development of townships construction of residential / commercial premises roads or bridges), or
e. In trading and transferable development rights (TDRs)

I/We being a person(s) resident outside India, here by declare that no portion / part of outward remittance represents interest on refunds of funds received from outside India for purchase of shares in India.

I/We declare that I/We have not remitted more than USD 1.00 million or equivalent from my/our NRO a/c during the current financial year.

Declaration for remittances if made under LRS:

1. I / We hereby declare that the total amount of Foreign Exchange purchased from (or) remitted abroad through all sources in India during the financial year as given above, including utilization of the said limit on account of Loan extended or gift made in Indian Rupees credited to NRO A/c of Non Resident Close relative(s), is within the limit of USD 250,000/- (US Dollar Two Lakh Fifty Thousand Only), which is the limit prescribed by RBI for the purpose and certify that the source of funds for making the said remittance belongs to me (Not Loan) and will not be used for prohibited purpose.

2. I / We, being a person(s) resident in India, hereby declare that for transactions done under the Liberalized Remittance Scheme (LRS) for resident individuals, issued and amended by RBI from time to time, is not in the nature of remittance for margin calls to overseas exchanges / overseas counter parties under this scheme.

Other relevant declarations:

1. I/we hereby declare that the purpose and transaction details as mentioned above are true to the best of my knowledge does not involve, and is not designed for the purpose of any contravention or evasion of the provisions of the FEMA, 1999 or any rule, regulation, notification, direction or order made there under. I/We agree that I/We shall be responsible and liable for any incorrect detail provided by me/us.

2. I/We also hereby agree and undertake to give such information / documents as will reasonably satisfy you about this transaction in terms of the above declaration.

3. I/we agree that in the event of transaction could not be executed/debited to my/ our account after submitting the request for processing to the bank on account of insufficient/ unclear balance at the same time of execution of the transaction in my/ our account any exchange losses incurred in this connection due to reversal of the Forex deal can be charged to my/ourBank of Baroda account.

4. I/we agree that in the event the transaction is cancelled or revoked by me/us after submitting the request for processing to the bank any exchange losses incurred in this connection can be charged to my/our Bank of Baroda account. I/we further agree that once the funds remitted by me/us have been transmitted by Bank of Baroda to the correspondent and/or beneficiary banks, Bank of Baroda shall not be responsible for any delays in the disbursement of such funds including the withholding of such funds by the correspondent and/or beneficiary banks. I/We further agree that once the funds remitted by me / us have been transmitted by Bank of Baroda, intermediary Bank charges may be levied by Correspondent and / or BeneficiaryBanks, which may vary from bank to bank.

5. I/we agree that in the event the transaction being rejected by the beneficiary bank because of incorrect information submitted by me, any charges levied by the beneficiary bank or exchange losses incurred in this connection can be charged to my Bank of Baroda account.

6. I/we also understand that if I/we refuse to comply with any such requirement or make only unsatisfactory compliance therewith, the bank shall refuse in writing to undertake the transaction and shall, if it has reason to believe that any contravention/evasion in contemplated by me/us, report that matter to the RBI.

7. I/we also agree that the exchange rate will be applicable at the time of deal booking and may vary from the rate prevailing when the request is submitted. I/we also understand that the rate communicated to us (if any) is an indicative rate and the actual rate may be different from the same.

8. I/we also declare that the transaction does not have linkage with Specially Designated Nations and blocked person (SDN) countries listed under OFAC/UN sanctions in any manner .I/we undertake not to hold Bank of Baroda responsible for any of its action or inaction in respect of the OFAC-linked/UN sanctioned transactions.

9. I / We authorize you to remit outwardly as per details provided in the application.

Date:	0	4	0	1	2	0	2	0
	D	D	M	M	Y	Y	Y	Y

Signature of Remitter/ POA (or) Mandate Holder/ Guardian in case of Minor / Authorised Signatory

The signature by mandate holder will be accepted only for Non-resident A/c holders where mandate is duly registered with the Bank

OUTWARD REMITTANCE APPLICATION – A2 CUM LRS DECLARATION

Annexure I : Documents enclosed *(please tick all that are relevant)*

	Documents received *(For branch use only)*
☑ 15 CA &15 CB- for remittances for the items specified by Income Tax Dept. under Rule 37BB including NRO accounts	☐
☐ Copy of valid Passport, Visa and Air Tickets in case of foreign travel.	☐
☐ Copy of Foreign School/University Fees schedule/estimate in case of payment of Tuition Fees beyond USD 250,000.00 or it's equivalent.	☐
☐ Copy of valid passport and Visa of the student in case of request for remitting fees for subsequent years by student's parents.	☐
☐ Copy of valid passport and Visa of beneficiary in case the remittance is for family maintenance.	☐
☐ Details of emigration expenses from embassy/ govt.	☐
☐ Medical certificate or estimate of hospital/Doctor in case of Medical treatment abroad in case remittance is for an amount beyond USD 250,000.00 or it's equivalent..	☐
☐ Documents related to setting up of JV/WOS outside India.	☐
☐ Copy of approval from Ministry/Department of Govt. of India for remittances for certain specific purpose like Cultural tours, Advertisement in Foreign print media for the purpose other than promotion of tourism, foreign investments and international bidding (exceeding USD 10,000) by a State Government and its PSU, remittance of freight of vessel chartered by PSU, payment of import through ocean transport by a Govt. department or a PSU on cif basis, multi-modal transport operators making remittance to their agents abroad, remittance of hiring charges of transponders by TV channels/Internet Service providers, remittance of container detention charges exceeding the rate prescribed by DG of Shipping, remittance of prize money/sponsorship of sports activity abroad by a person other than International/National/State level sports bodies, if the amount involved exceeds USD 100,000 or remittance for membership of P & I Club.(Not required in case payment is made out of funds held in Resident Foreign Currency account of the remitter).	☐
☐ Approval letter from RBI for remittance by non individual for remittances like donation for educational institutions, commission to agents abroad for sale of residential flats/commercial plots in India, consultancy services, pre-incorporation expenses beyond permissible limits as per latest Master Direction issued by RBI.	☐
☐ Income Tax returns for the past -3- years, if required by Bank.	☐
☐ Statement of Bank a/c for the last -12- months, if required by Bank.	☐
☐ Others viz. Invoice/agreement for remittance to overseas travel agents/hotels/conference and event manager/ training organisers/consultancy fees/Examination fees/Visa fees/agency commission etc.	☐
☐ Copy of Shipping Bill (applicable in case of export commission payment).	☐
☐ Copy of transport/shipping documents (applicable in case of freight payment).	☐

Annexure II - List of close relatives as per Sec VI of Companies Act (for information)

Father (including Step Father)	Son's wife	Member of HUF	Husband (or) Wife
Mother (including Step Mother)	Daughter	Daughter's Husband	Sister (Including Step Sister)
Brother (including step Brother)	Son (Including step Son)		

FORM NO. 15CA

[See rule 37BB]

Information to be furnished for payments, to a non-resident not being a company, or to a foreign company

Acknowledgement Number

275066561201219

PART A - To be filled up if the remittance is chargeable to tax under the provisions of the Income-tax Act,1961 and the remittance or the aggregate of such remittances, as the case may be, does not exceed five lakh rupees during the financial year.
PART B - To be filled up if the remittance is chargeable to tax under the provisions of the Income-tax Act,1961 and the remittance or the aggregate of such remittances, as the case may be, exceeds five lakh rupees during the financial year and an order/ certificate u/s 195(2)/ 195(3)/ 197 of Income-tax Act has been obtained from the Assessing Officer.
PART C - To be filled up if the remittance is chargeable to tax under the provisions of Income-tax Act, 1961 and the remittance or the aggregate of such remittances, as the case may be, exceeds five lakh rupees during the financial year and a certificate in Form No. 15CB from an accountant as defined in the Explanation below sub-section (2) of section 288 has been obtained.
PART D - To be filled up if the remittance is not chargeable to tax under the provisions of the Income-tax Act,1961 {other than payments referred to in rule 37BB(3)} by the person referred to in rule 37BB(2).

Please select the relevant part from the drop down. **PART - D**

PART - D

To be filled up if the remittance is not chargeable to tax under the provisions of the Income-tax Act,1961 {other than payments referred to in rule 37BB(3)} by the person referred to in rule 37BB(2).

REMITTER	
Name of Remitter	**VELTECH RANGARAJAN DR SAKUNTHALA RANDD INSTITUTE OF SCIENCE AND TECHNOLOGY**
PAN of the Remitter (if available)	**AABTV8852A**
TAN of the Remitter (if available)	**CHEV13129E**
ADDRESS OF THE REMITTER	
Flat/ Door/ Block No	**NO.42**
Name of premises/ Building/ Village	**VELTECH**
Road/ Street	**ALAMATHI ROAD**
Area/ Locality	**Avadi**
Town/ City / District	**TIRUVALLUR**
State	**TAMIL NADU**
Country	**INDIA**
Pin Code	**600062**
Email ID	**NOORJAHAN@VELTECH.EDU.IN**
Phone Number	**9940380986**
Status of the Remitter	**OTHERS**
Residential status of remitter	**Resident**
REMITTEE	
Name of recipient of remittance	**TYAN,FENG**
PAN of the recipient of remittance, if available	
ADDRESS	
Flat/ Door/ Block No	**3RD FLOOR**
Name of premises/ Building/ Village	**LANE 59**
Road/ Street	**MUZHA ROAD, SECTION 1**
Area/ Locality	**WENSHAN DISTRICT**
Town/ City / District	**TAIPEI**
State	**TAIWAN**
Country	**TAIWAN, PROVINCE OF CHINA[A]**
ZIP Code	**11642**
Email ID	**TYANFENG@MAIL.TKU.EDU.TW**
Phone Number	**886226215656**
Country to which remittance is made	
Country	**TAIWAN, PROVINCE OF CHINA[A]**
Name of Country if selected as Others	
Currency	**NEW TAIWAN DOLLAR**

Currency if selected as Others	
Country of which the recipient of remittance is resident, if available	**TAIWAN, PROVINCE OF CHINA[A]**
REMITTANCE	
Amount payable	
In foreign currency:	20494
In Indian Rs.	46948
Name of bank	**Vijaya Bank**
Name of Bank if selected as Other Bank	
Name of the branch of the bank	**VELTECH**
BSR code of the bank branch (7 digit)	**0390436**
Proposed date of remittance (DD/MM/YYYY)	**23/12/2019**
Nature of remittance as per agreement/ document	**REIMBURSEMENT OF EXPENSES**
Nature of remittance as per agreement/ document if Others	-
Relevant purpose code as per RBI	**Other Business Services**
	S1008 - Research and Development services

2. I certify that I have reason to believe that the remittance as above is not chargeable under the provision of Income-tax Act 1961 and is not liable for deduction of tax at source.

PART-D VERIFICATION

1. I, MR R RANGARAJAN(full name in block letters) son/daughter of MR RANGASWAMY in the capacity of PRESIDENT (designation) solemnly declare that the information given above is true to the best of my knowledge and belief and no relevant information has been concealed

2. In case where it is found that the tax actually deductible on the amount of remittance has not been deducted or after deduction has not been paid or not paid in full I undertake to pay the amount of tax not deducted or not paid, as the case may be along with interest due. I shall also be subject to the provisions of penalty for the said default as per the provisions of the Income-tax Act, 1961

3. I further undertake to submit the requisite documents for enabling the Income-tax Authorities to determine the nature and amount of income of the recipient of the above remittance as well as documents required for determining my liability under the Income-tax Act, 1961 as a person responsible for deduction of tax at source.

Date (DD/MM/YYYY): 20/12/2019

Name of the person responsible for paying to non-resident MR R RANGARAJAN

Place CHENNAI

Designation PRESIDENT

This form has been digitally signed by RANGASWAMY RANGARAJAN having PAN AADPR7092J from IP Address 115.240.192.140 on 2019-12-20 15:47:50.0 .
Dsc Sl No and issuer 15020923CN=e-Mudhra Sub CA for Class 2 Individual 2014,OU=Certifying Authority,O=eMudhra Consumer Services Limited,C=IN

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: 04 JAN 2020

Dr. S. Sivaperumal
Director International Relations

Our Ref. No.: 2019-2020/VF 192	**Your Ref. No.:**

Name : Prof. Dr. Feng Tyan
University & Country: Tamkang University, Taiwan
Course Duration : January 20 to February 14, 2020 (4 weeks, 20 Working days)
Course Title : Airplane Stability & Control
Category : Programme Core

Sl. No	Detail	Ticket cost in USD	Ticket cost in INR
1	Flight ticket reimbursement Ticket booked on 03.10.2019	679.39	46948
Total		**679.39**	**46948**

(Rupees Forty Six Thousand Nine Hundred and Forty Eight Only)

In this regard, I request to transfer the amount in United Sates Dollar (USD) to the following Account,

Name : Tyan, Feng
Bank name: First Commercial Bank
Account No: 23568066932
Branch : Shuang-Ho, Taiwan
Swift/Bic : FCBKTWTPXXX

Thank you

04/01/2020

Sivaperumal S
Dr. S. Sivaperumal
Director International Relations

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

No.42, Avadi-Vel Tech Road, Avadi
Chennai - 600 062, Tamil Nadu, India.
Toll Free : 1800 3070 6949
Mobile : +91 96000 40255
Email : dint@veltech.edu.in
Website : www.veltech.edu.in

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

School of Mechanical and Construction

Department of Aeronautical Engineering

Specialized one credit course on

"Flapping Wing Dynamics"

(1152AE219)

by

Prof. Dr. Lung- Jieh Yang

Tamkang University, Taiwan

Held on

Date: July 8 to September 29, 2019

CURRICULUM VITAE



1. *Personal data*

- Lung-Jieh Yang
- Nationality: TAIWAN, R.O.C.
- Sex：Male
- DOB: Aug. 07, 1965
- Corresponding Address: Department of Mechanical and Electro-Mechanical Engineering, TamkangUniversity, #151, Ying-Chuan Rd., Tamsui, 25137, Taipei, TAIWAN, R.O.C.
- Phone no.: +886-2-2621-5656 ext 2768 or +886-932-159193
- Fax no.： +886-2-2620-9750
- E-mail: Ljyang@mail.tku.edu.tw

2. *Education*

- Ph.D., Institute of Applied Mechanics, National Taiwan University, TAIWAN, R.O.C., Dec., 1996
- M.S., Institute of Mechanical Engineering, Tamkang University, TAIWAN, R.O.C., June, 1991
- B.S., Department of Aerospace Engineering, National Cheng-Kung University, TAIWAN, R.O.C., June, 1987

3. *Current position and relevant experience*

Current position： Professor, Department of Mechanical and Electro-Mechanical Engineering, Tamkang University, TAIWAN (since Aug., 2012)

Relevant experience：

- Editor-in-Chief, Tamkang Journal of Science and Engineering, ISSN 1560-6686 (since Aug. 2011)
- Adjoint Research Fellow, National Applied Research Lab, TAIWAN (Aug. 2008~Aug. 2011)
- Professor, Department of Mechanical and Electro-Mechanical Engineering, Tamkang University, TAIWAN (since Aug., 2007)
- Director, Incubation Center, Tamkang University (Aug. 2008~Jul. 2009)
- Director, Instrument and Experiment Center, Tamkang University (Aug. 2003~Jul. 2008)
- Associate Professor, Department of Mechanical and Electro-Mechanical Engineering, Tamkang University, TAIWAN (Aug., 2002~Jul., 2006)

- Assistant Professor, Department of Mechanical Engineering, Tamkang University, TAIWAN (Aug., 1997~Jul., 2002)
- Visiting Associate, Department of Electrical Engineering, California Institute of Technology, USA (Sep., 2000~Aug., 2001)

4. ***Fields of specialty (limit to fields related to research)***
   - MEMS (micro electro mechanical systems)
   - Micro Aerial Vehicles

5. ***Major awards and honors***
   - IEEE *International Conference on Nano/Micro Engineered and Molecular Systems* (IEEE NEMS), TPC members: 2009-2012
   - Co-Chair, The 10th International Heat Pipe Symposium, Nov. 6-9, 2011.
   - Tamkang Research Awards: 1998, 2000, 2002-2012
   - Best Student Paper Award (Adviser), 2009 International Conference on Mechatronic System of Integration and Application, Tainan, Dec. 4-5, 2009.
   - Best Paper Award, The 10th Conference on Nano Engineering and Micro System Technology of Taiwan, Nov. 30-Dec. 1, 2006.
   - Best Student Paper Award (Adviser), The Third Asia-Pacific Conference On Transducers (APCOT-2006), Singapore, June 25-28, 2006.
   - NSC Research Awards: 1998.

Significant project-related publications in the past five years, including: journal papers, patents, periodical articles, or books, etc.

Journal papers:

1. Lung-Jieh Yang, Chung-Yu Kao, and Chin-Kwang Huang, 2012, "Development of flapping ornithopters by precision injection molding," ***Applied Mechanics and Materials***, v. 163, pp. 125-132.
2. Lung-Jieh Yang, A-Fu Kuo, and Cheng-Kuei Hsu, 2012, "Wing stiffness on light flapping micro aerial vehicles," ***Journal of Aircraft***, v. 49, n. 2, pp. 423-431.Lung-Jieh Yang and Tzu-Yuan Lin, 2011, "A PDMS-based thermo-pneumatic micropump with parylene inner walls," ***Microelectronic Engineering***, v. 88, n. 8, pp. 1894-1897.
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7. Lung-Jieh Yang, Cheng-Kuei Hsu, Chun-Yu Kao, Fu-Yuen Hsiao, and Chao-Kung Feng, 2009, "Weight reduction of flapping micro aerial vehicles using electrical discharge wire machining," ***Journal of Aeronautics, Astronautics and Aviations-Series A***, v. 41, n. 3, pp. 165-172.
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Inbox.

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology

Our Ref. No: 2018/ VF 178	**Your Ref. No:**

Submitted for the Approval:

Name of the Professor: Prof. Dr. Lung- Jieh Yang

University & Country : Tamkang University, Taiwan

Course Titles : 1. Flapping Wing Dynamics (Programme Elective Course)- 36 Hrs
2. Fundamentals of MEMS (15 Hrs)

Department : 1. Aeronautical Engineering
2. Electronics and Communication Engineering

Dates : 1. July 8 to September29, 2019
2. August 5 to 9, 2019

No. of Students: Course 1: 2017-2021:19 Students
Course 2: 2017-2021:48 Students

Sl.No	Description	Amount in INR
1	Course Honorarium (Rs.3000 *51 Hrs) **(Net Amount & Tax Free)**	1,55,000
2	Advance paid (August 6th, 2019)	50,000
	Balance to Pay	**1,05,000**

(Rupees one lakh and five thousand only)

So Requesting approval to transfer the balance payment to the following account,

Account Details:

Name: Lung- Jieh Yang

Account Number: 380203082000006

Bank: Vijaya Bank (Now Bank of Baroda)

Branch: Vel Tech

IFSC Code: VIJB0003802

Thank You,

27/09/19

Entered in Budget Register
pg. 09, Sl.17

27/9/19

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COURSE TITLE
Flapping Wing Dynamics

Course Content :

UNIT-I Flapping Flight in Nature
Introduction - Parts and functions of flapping flyers - Gliding, Forward and Hovering - Structures and occurrences of wings - Muscles associated with the wings - Movements of the wings - Drag and Power - Upper and lower limits - Wing beat frequency
Exp: Design and fabrication of flapping mechanism & Wings

UNIT-II Aerodynamics of flexible and flapping wing flight
Introduction - Flexible wing models - Linear and hyperplastic model - Coupled elastic structures and aerodynamics model - Flapping motion - Kinematics - Reynolds number - strouhal number and reduced frequency

UNIT-III Flapping-Wing Aerodynamics Model

Lift and Thrust Evaluation from wing motion - Dynamic Stall - Leading-Edge Vortex - Rapid Pitch-Up - Wake Capture - DeLaurier Modified strip theory - Various Mechanism for wing motion - Effects of Reynolds Number, Reduced Frequency, and Kinematics on Hovering Aerodynamics

UNIT-IV Flapping flight Mechanics

Introduction - Concepts of blade element theory and momentum theory - Equations of motion - Wing kinematics - Force calculations - Forward flight performance - Hovering flight performance - Roll Pith & Yaw - flapping wing motion comparison with fixed wing and helicopter - Linearized dynamical model for flapping wing - Concepts of flapping wing stability
EXP: 1. Estimation of Aero dynamical Parameter of flapping wing
2. Estimation of Thrust for flapping wing

UNIT-V Instrumentation for flapping wing
Design and fabrication of flapping wing models - Flow visulization techniques - Sensors for measuring forces - moments - flapping frequency - data acquisiton using modern tools - wind tunnel limitations - free flight testing - in flight testing

EXP: 1. Design and fabrication of Flapping Wings
2. Flow visualization over flapping wing and identification of figure eight motion

h. Learning Resources
i. Text Books :

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ii. Reference:

1. Sujoy Mukherjee &RanjanGanguli, Nonlinear dynamic analysis of dragonfly-inspired piezoelectric unimorph actuated flapping and twisting wing International Journal of Smart and Nano Materials ISSN: 1947-5411 (Print) 1947-542X (Online)
2. Aditya A. Paranjapee, Michael R. Dorothy, Soon-Jo Chung, Ki D. Lee, A Flight Mechanics-Centric Review of Bird-Scale Flapping Flight, Int'l J. of Aeronautical & Space Sci. 13(3), 267–282 (2012)
3. Wei Shyy and Michael J. Rycroft, Aerodynamics of Low Reynolds Number Flyers, Cambridge Aerospace Series

DME/DARG 25/6/19 DA/11645 20/06/19.

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(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

Details of Professor & Course:

Name of the Professor	Prof. Dr. Lung- Jieh Yang (CV Attached)
University & Country	Tamkang University, Taiwan
Title of the Course	Flapping Wing Dynamics (Regular Course) 1152AE219
Course Code	1152AE219
Department	Aeronautical Engineering
Dates of the Course	July 02 to September 30, 2019
Total No. of Hours	45
No. of Credits	3
Category	Programme Elective
Course Content	Attached

Prepared by:
Coordinator – Directorate of Intl. Relations

Forwarded by: 17/06/19.
Director – Directorate of Intl. Relations

HoD **Dean** **Director (Academic)** **Vice Chancellor** 21/7

Prof. Dr.A.T. Ravichandran
Dean SoMC
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School of Mechanical and Construction Engineering

Department of Aeronautical Engineering

Course: Flapping Wing Dynamics
Course Code: 1152AE219
Category: Program Elective
No. of Hours: 45
Credits: 3

Time Table:

Day	Timings
Monday	8:45am to 9:35am 1:45pm to 2:35pm
Tuesday	3:45pm to 4:35pm
Thursday	11:45am to 12:30pm

SNo	Stu_Id	Stu_Name	Stu_Degree	Stu_Branch	Stu_Test_SubjectCode	Stu_Test_SubjectName	Stu_Subject_PassFail	Stu_Grade
1	VtU10338	SHAD AKHTER	B.Tech	Aeronautical-Eng	1152AE219	Flapping Wing Dynamics	Pass	D
2	VtU10465	HOLLY FIELD PYNGROPE	B.Tech	Aeronautical-Eng	1152AE219	Flapping Wing Dynamics	RA	RA
3	VtU9595	VANGARA SHANMUGHAM	B.Tech	Aeronautical-Eng	1152AE219	Flapping Wing Dynamics	Pass	C
4	VtU9603	TANELANKA TEJA SRI SATYA KISHORE	B.Tech	Aeronautical-Eng	1152AE219	Flapping Wing Dynamics	Pass	B
5	VtU9607	KARRI ADITYA SUBHASH REDDY	B.Tech	Aeronautical-Eng	1152AE219	Flapping Wing Dynamics	Pass	B
6	VtU9687	DONTHI SUSHAANTH REDDY	B.Tech	Aeronautical-Eng	1152AE219	Flapping Wing Dynamics	Pass	C
7	VtU10478	IRSHAD HUSSAIN	B.Tech	Aeronautical-Eng	1152AE219	Flapping Wing Dynamics	Pass	D
8	VtU10633	KAJOL KUMARI	B.Tech	Aeronautical-Eng	1152AE219	Flapping Wing Dynamics	Pass	B
9	VtU10712	CLETIUS JALA	B.Tech	Aeronautical-Eng	1152AE219	Flapping Wing Dynamics	Pass	D
10	VtU10848	SOURADEEP MAITY	B.Tech	Aeronautical-Eng	1152AE219	Flapping Wing Dynamics	RA	RA
11	VtU10856	AWADHESH KUMAR	B.Tech	Aeronautical-Eng	1152AE219	Flapping Wing Dynamics	RA	RA
12	VtU8622	HARISHKANNA M K	B.Tech	Aeronautical-Eng	1152AE219	Flapping Wing Dynamics	RA	AB
13	VtU8721	SHAIK IMRAN	B.Tech	Aeronautical-Eng	1152AE219	Flapping Wing Dynamics	NE	NE
14	VtU8824	ADITHYA P	B.Tech	Aeronautical-Eng	1152AE219	Flapping Wing Dynamics	RA	RA
15	VtU9162	SOMIREDDY RAJASEKHAR REDDY	B.Tech	Aeronautical-Eng	1152AE219	Flapping Wing Dynamics	RA	RA
16	VtU9200	SINGAMANENI SAI RAM	B.Tech	Aeronautical-Eng	1152AE219	Flapping Wing Dynamics	NE	NE
17	VtU9484	KANIPAKAM BADRINATH	B.Tech	Aeronautical-Eng	1152AE219	Flapping Wing Dynamics	Pass	C
18	VtU9590	MOTAPOTHULA PRANAY	B.Tech	Aeronautical-Eng	1152AE219	Flapping Wing Dynamics	Pass	B
19	VtU9757	MUDE BALAJI NAIK	B.Tech	Aeronautical-Eng	1152AE219	Flapping Wing Dynamics	Pass	C
20	VtU10856	AWADHESH KUMAR	B.Tech	Aeronautical-Eng	1152AE219	Flapping Wing Dynamics	Pass	D
21	VtU8622	HARISHKANNA M K	B.Tech	Aeronautical-Eng	1152AE219	Flapping Wing Dynamics	Pass	D
22	VtU10848	SOURADEEP MAITY	B.Tech	Aeronautical-Eng	1152AE219	Flapping Wing Dynamics	Pass	B
23	VtU8824	ADITHYA P	B.Tech	Aeronautical-Eng	1152AE219	Flapping Wing Dynamics	RA	AB

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School of Electrical and Communication

Department of Electronics and Communication Engineering

Specialized one credit course on

"Introduction to MEMS"

(1157EC931)

by

Prof. Dr. Lung- Jieh Yang

Tamkang University, Taiwan

Held on

Date: August 19 to 24, 2019

CURRICULUM VITAE



1. *Personal data*

- Lung-Jieh Yang
- Nationality: TAIWAN, R.O.C.
- Sex：Male
- DOB: Aug. 07, 1965
- Corresponding Address: Department of Mechanical and Electro-Mechanical Engineering, TamkangUniversity, #151, Ying-Chuan Rd., Tamsui, 25137, Taipei, TAIWAN, R.O.C.
- Phone no.: +886-2-2621-5656 ext 2768 or +886-932-159193
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2. *Education*

- Ph.D., Institute of Applied Mechanics, National Taiwan University, TAIWAN, R.O.C., Dec., 1996
- M.S., Institute of Mechanical Engineering, Tamkang University, TAIWAN, R.O.C., June, 1991
- B.S., Department of Aerospace Engineering, National Cheng-Kung University, TAIWAN, R.O.C., June, 1987

3. *Current position and relevant experience*

Current position： Professor, Department of Mechanical and Electro-Mechanical Engineering, Tamkang University, TAIWAN (since Aug., 2012)

Relevant experience：

- Editor-in-Chief, Tamkang Journal of Science and Engineering, ISSN 1560-6686 (since Aug. 2011)
- Adjoint Research Fellow, National Applied Research Lab, TAIWAN (Aug. 2008~Aug. 2011)
- Professor, Department of Mechanical and Electro-Mechanical Engineering, Tamkang University, TAIWAN (since Aug., 2007)
- Director, Incubation Center, Tamkang University (Aug. 2008~Jul. 2009)
- Director, Instrument and Experiment Center, Tamkang University (Aug. 2003~Jul. 2008)
- Associate Professor, Department of Mechanical and Electro-Mechanical Engineering, Tamkang University, TAIWAN (Aug., 2002~Jul., 2006)

- Assistant Professor, Department of Mechanical Engineering, Tamkang University, TAIWAN (Aug., 1997~Jul., 2002)
- Visiting Associate, Department of Electrical Engineering, California Institute of Technology, USA (Sep., 2000~Aug., 2001)

4. ***Fields of specialty (limit to fields related to research)***
   - MEMS (micro electro mechanical systems)
   - Micro Aerial Vehicles

5. ***Major awards and honors***
   - IEEE *International Conference on Nano/Micro Engineered and Molecular Systems* (IEEE NEMS), TPC members: 2009-2012
   - Co-Chair, The 10th International Heat Pipe Symposium, Nov. 6-9, 2011.
   - Tamkang Research Awards: 1998, 2000, 2002-2012
   - Best Student Paper Award (Adviser), 2009 International Conference on Mechatronic System of Integration and Application, Tainan, Dec. 4-5, 2009.
   - Best Paper Award, The 10th Conference on Nano Engineering and Micro System Technology of Taiwan, Nov. 30-Dec. 1, 2006.
   - Best Student Paper Award (Adviser), The Third Asia-Pacific Conference On Transducers (APCOT-2006), Singapore, June 25-28, 2006.
   - NSC Research Awards: 1998.

Significant project-related publications in the past five years, including: journal papers, patents, periodical articles, or books, etc.

Journal papers:

1. Lung-Jieh Yang, Chung-Yu Kao, and Chin-Kwang Huang, 2012, "Development of flapping ornithopters by precision injection molding," ***Applied Mechanics and Materials***, v. 163, pp. 125-132.
2. Lung-Jieh Yang, A-Fu Kuo, and Cheng-Kuei Hsu, 2012, "Wing stiffness on light flapping micro aerial vehicles," ***Journal of Aircraft***, v. 49, n. 2, pp. 423-431.Lung-Jieh Yang and Tzu-Yuan Lin, 2011, "A PDMS-based thermo-pneumatic micropump with parylene inner walls," ***Microelectronic Engineering***, v. 88, n. 8, pp. 1894-1897.
3. Lung-Jieh Yang, 2010, "On gas-permeation in PDMS," ***Journal of Micromechanics and Microengineering***, v. 20, n. 11, 115033.
4. Yung-Chiang Chung, Li-Wei Lai, Lung-Jieh Yang, and Wei-Jie Liao, 2010 "Comparison of different metal film thicknesses of COC-substrate polymerase chain reaction chips with single-side and double-side heaters,"***Journal of Micro/Nanolithography, MEMS, and MOEMS***, v. 9 (3), 031006.

5. Yung-Chiang Chung,Guo-Yuan Hess, Fu-Wen Yeh, Hsieh-Cheng Han,Chien-Yuan Chen, Ching-Jiun Lee, Horn-Jiunn Sheen, and Lung-Jieh Yang, 2010, "Fabrication and testing of surface ratchets primed with hydrophobic parylene and hexamethyldisilazane for transporting droplets," ***Journal of Micro/Nanolithography, MEMS, and MOEMS***, v. 9 (1), 013035.
6. Lung-Jieh Yang, Cheng-Kuei Hsu, Hsieh-Cheng Han, and Jr-Ming Miao, 2009, "A light flapping micro-aerial-vehicle using electrical discharge wire cutting technique,"***Journal of Aircraft,*** v. 46, n. 6, pp. 1866-1874.
7. Lung-Jieh Yang, Cheng-Kuei Hsu, Chun-Yu Kao, Fu-Yuen Hsiao, and Chao-Kung Feng, 2009, "Weight reduction of flapping micro aerial vehicles using electrical discharge wire machining," ***Journal of Aeronautics, Astronautics and Aviations-Series A***, v. 41, n. 3, pp. 165-172.
8. Lung-Jieh Yang, 2009, "Gas permeation in PDMS in-situ monitoring by silicon pressure sensors," ***Advanced Materials Research***, v. 74, pp. 113-116.
9. P.-L. Lu, C.-L. Fan, L.-J. Yang, C.-W. Lin, F.-S. Jaw, 2009, "Novel fabrication of full parylene-isolated neuroprobes,"***Journal of Bionanoscience***, v. 3, n. 1, pp. 58-60.
10. Yu-Cheng Ou, Chih-Wen Hsu, Lung-Jieh Yang,Hsieh-Cheng Han, Yi-Wen Liu, and Chien-Yuan Chen, 2008, "Attachment of tumor cells to the micropatterns of glutaraldehyde (GA)-crosslinked gelatin," ***Sensors and Materials***, v. 20, n. 8, pp. 435-446.
11. Ling-ChihChien, Nan-Fu Chiu, Adam Shih-Yuan Lee, Lung-JiehYang,Yao-Joe Yang, Kuang-Chong Wu, Chih-Kung Lee, and Chii-Wann Lin, 2007, "Electrochemical detection of high-sensitivity C-reactive protein based on biomimic design of electroactive nanoassembly multilayers,"***Journal of Bionanoscience***, v. 1, n. 1, pp. 44–50.
12. Lung-Jieh Yang, Hsin-Hsiung Wang, Po-Chiang Yang, Y.-C. Chung, and T.-S. Shen, 2007, "New packaging method using PDMS for piezoresistive pressure sensors," ***Sensors and Materials***, v. 19, n. 7, pp. 391-402.
13. Lung-Jieh Yang, C.-K. Hsu, J.-Y. Ho, and C.-K. Feng, 2007, "Flapping wings with PVDF sensors to modify the aerodynamic forces of a micro aerial vehicle," ***Sensors and Actuators A: Physical***, v. 139, pp. 95-103.
14. Lung-Jieh Yang, K.-C. Ko, and J.-M. Wang, 2007, "A circular microchannel integrated with embedded spiral electrodes using for fluid transportation,"***Sensors and Actuators A: Physical***, v. 139, pp. 172-177.
15. Yan-You Lin, Chi-Wann Lin, Lung-Jieh Yang, and An-Bang Wang, 2007, "Micro-viscometer based on electrowetting on dielectric," ***ElectrochimicaActa***, **v. 52, pp. 2876-2883.**
16. Lung-Jieh Yang, C.-K. Hsu, C.-K. Feng, J.-Y. Ho, G.-H. Feng, and H.-M. Shih, 2007, "A flapping MAV with PVDF-parylene composite skin," ***Transactions of the Aeronautical and Astronautical Society of the Republic of China***, v. 39, n. 3, pp. 195-202.

17. Lung-Jieh Yang and Kuan-Chun Liu, 2007, "Surface tension-driven microvalves with large rotating stroke," ***Tamkang Journal of Science and Engineering***, v. 10, n. 2, pp. 141-146.
18. Lung-Jieh Yang, Hsin-Hsiung Wang, Jiun-Min Wang, Kuan-Chun Liu and Kai-Chung Ko, 2006, "Buckled-type valves integrated by parylene micro-tubes," ***Sensors and Actuators A: Physical***, Vol. 130-131, pp. 241-246.
19. Lung-Jieh Yangand Yu-Cheng Ou, 2005, "The micro patterning of glutaraldehyde (GA)-crosslinked gelatin and its application to cell-culture," ***Lab on a Chip***, Vol. 5, No. 9, pp. 979-984.
20. C. L. Dai, H. J. Peng, M. C. Liu, C. C. Wu, H. M. Hsu, L. J. Yang, 2005, "A micromachined microwave switch fabricated by the complementary metal-oxide semiconductor post-process of etching silicon dioxide," ***Japanese Journal of Applied Physics***, Vol. 44, No. 9A, pp. 6804-6809.
21. Lung-Jieh Yang,Hsin-Hsiung Wang, Kuan-Chun Liu and Kai-Chung Ko, 2005, "The bowed-type parylene valves," ***Tamkang Journal of Science and Engineering***, v. 8, n. 3, pp. 245-248.
22. Jiun-Min Wang and Lung-Jieh Yang, 2005, "Electro-hydro-dynamic (EHD) micropumps with electrode protection by parylene and gelatin," ***Tamkang Journal of Science and Engineering***, v. 8, n. 3, pp. 231-236.
23. Wei-Chih Lin and Lung-Jieh Yang, 2005, "A liquid-based gravity-driven etching-stop technique and its application to wafer level cantilever thickness control of AFM probes", ***Journal of Micromechanics and Microengineering***, v. 15, n. 5, pp. 1049-1054.
24. C.-L. Dai, H.-J. Peng, M.-C. Liu, C.-C. Wu, L.-J. Yang, 2005, "Design and fabrication of RF MEMS switch by the CMOS process," ***Tamkang Journal of Science and Engineering***, v. 8, n. 3, pp. 197-202.
25. Lung-Jieh Yang, Chen-Chun Lai, Ching-Liang Dai and Pei-Zen Chang, 2005, "A piezoresistive micro pressure sensor fabricated by commercial DPDM CMOS process," ***Tamkang Journal of Science and Engineering***, v. 8, n. 1., pp. 67-73.
26. Lung-Jieh Yang, Y.-T. Chen, S.-W. Kang and Y.-C. Wang, 2004, "Fabrication of SU-8 embedded microchannels with circular cross- section," ***International Journal of Machine Tools and Manufacture***, V. 44, pp. 1109-1114.
27. Lung-Jieh Yang, Tze-Jung Yao and Yu-Chong Tai, 2004, "The marching velocity of the capillary meniscus in a microchannel", ***Journal of Micromechanics and Microengineering***, v. 14, n. 2, pp. 220-225.
28. Lung-Jieh Yang, Jiun-Min Wang and Yu-Lin Huang, 2004, "The micro ion drag pump using ITO electrodes to resist aging", ***Sensors and Actuators A: Physical***, v.111, n.1, pp.118-122.
29. C.S. Chen, L.J. Yang and C.F. Chou, 2003, "A study of viscous air damping in laterally oscillating micro comb structures", ***Transactions of the Aeronautical and Astronautical Society of the Republic of China***, v. 35, n.1, pp.99-105.
30. Lung-Jieh Yang, W.-Z. Lin, T.-J. Yao and Y.-C. Tai, 2003, "Photo-patternable gelatin as protection layers in surface micromachinings", ***Sensors and Actuators A:Physical***, v.103, n.1-2, pp.284-290.

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33. Lung-Jieh Yang and Shung-Wen Kung, 2002, "The SOI-like method to reduce the die size of bulk-micromachined sensors", ***Sensors and Materials***, v. 14, no.1, pp.23-34.
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35. Lung-Jieh Yang, Tsung-Wei Huang and Pei-Zen Chang, 2001, "CMOS microelectromechanical bandpass filters,"***Sensors and Actuators A: Physical,*** v. 90, n. 1-2, pp. 148-152.
36. Lung-Jieh Yang,K.-Y. Hsieh, J.-H. Chiou, J.-Y. Chen, C.-L. Chang and P.-Z. Chang, 1999, "Fabrication of 3-D microcoils with ferromagnetic cores using a standard CMOS process," ***Sensors and Materials***, v. 11, n. 6, pp. 359-367.
37. Pei-Zen Chang and Lung-Jieh Yang, 1998, **"**A method using V-grooves to monitor the thickness of silicon membrane with μm resolution**,"** ***Journal of Micromechanics and Microengineering,*** v. 8, n. 3, pp. 182-187.
38. Yang, L.-J., Chang, P.-Z., Chiang, C.-C., 1997, "The application of V-groove slot-array method to the piezoresist1ve pressure sensors," ***Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A***, v. 20, n. 3, pp. 335-341.
39. Hsu, Yu-Wen, Lu, Shey-Shi, Yang, Lung-Jieh, Chang, Pei-Zen, 1995, "Wide-g range silicon piezoresistive accelerometer," ***Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A***, v. 18, n. 6, pp. 873-878.

Conference papers:

1. Lung-Jieh Yang, Aug. 19-24, 2012, "Wingtip trajectory of a flapping micro-air-vehicle in its forward flight," the 23rd International Congress of Theoretical and Applied Mechanics (ICTAM2012), Beijing, China, FS-06-010
2. L.-J. Yang, C.-Y. Kao, and C.-K. Huang, Mar. 23-25, 2012, "Development of flapping ornithopters by precision injection molding," Proc. of the 9th International Conference on History of Mechanical Technology and Mechanical Design, Tainan, Taiwan, pp. 123-130
3. L.-J. Yang and B.-H. Chen, Mar. 5-8, 2012, "Blood vessels by fractal gelatin," The 7th IEEE International Conference on Nano/Micro Engineered and Molecular Systems (IEEE NEMS 2012), Kyoto, Japan, pp. 242-245
4. L.-J. Yang et al., Nov. 6-9, 2011, "An ultra-small Wankel engine by MEMS process," The 10th International Heat Pipe Symposium, Tamsui, Taiwan, pp.272-276
5. L.J. Yang, C.W. Hsu, and Y.C. Ou, "The minimum time estimation for initiating tumor-cell attachment," June 5-9, Technical Digest of the 16th International

Conference on Solid-State Sensors, Actuators and Microsystems (Transducers '11), Beijing, China, pp. 2386-2389, 2011

6. L.J. Yang, I.C. Huang, Y.S. Chen, W.T. Tang, and A.B. Wang, "A parylene-LED wingbeating indicator for visual remote sensing," June 5-9, Technical Digest of the 16th International Conference on Solid-State Sensors, Actuators and Microsystems (Transducers '11), Beijing, China, pp. 422-425, 2011
7. A-Fu Kao, Lung-Jieh Yang, Fu-Wen Yeh, Feb. 20-23, 2011, "Fractal grooves applied to passive micro-mixers," The 6th IEEE International Conference on Nano/Micro Engineered and Molecular Systems, IEEE NEMS 2011, Kaohsiung, Taiwan
8. Lung-Jieh Yang, Chia-Chan Lee, Po-Hung Chen, Chih-Wen Hsu, Feb. 20-23, 2011, "Confined fractal patterns in gelatin," The 6th IEEE International Conference on Nano/Micro Engineered and Molecular Systems, IEEE NEMS 2011, Kaohsiung, Taiwan
9. L.-J. Yang and T.-Y. Lin, Sep. 19-22, 2010, "A PDMS-based thermopneumaticmicropump with parylene inner walls," MNE 2010, Genoa (Italy)
10. L.-J. Yang, J.-M. Maio, A.-F. Kuo, and C.-K. Hsu, Jun. 28-Jul.1, 2010, "Effect of flexural stiffness on the aerodynamic forces of flapping MAVs," The 28th AIAA Applied Aerodynamics Conference, Chicago (art. no. AIAA 2010-5077)
11. K.-F. Chang, Y.-C. Tsai, W. -P. Shih, and L.-J. Yang, Jan. 24-28, 2010, "An electro-active nano-valve array for reusable drug delivery system," Proceeding of the 23rd IEEE MEMS (**MEMS'10**) , Hongkong, pp. 1039-1042
12. Yang, L.-J., Jan. 20-23, 2010, "Gas permeation in PDMS monitored by on-site pressure sensors," The 5th IEEE International Conference on Nano/Micro Engineered and Molecular Systems, IEEE NEMS 2010, Xiamen, China, pp. 348-351
13. Yi-Shao Chen , Pei-Chun Weng, Po-Hung Chen, and Lung-Jieh Yang, 4-5 Dec, 2009, "Flexural stiffness effect on lift force of flapping micro aerial vehicles,"Proc. of 2009 International Conference on Mechatronic System of Integration and Application (ISBN 978-986-02-1190-0), Tainan, Taiwan, pp. 132-137.**(Best Student Paper Award-Silver medal)**
14. Ou, Y.-C., Hsu, C.-W., Yang, L.-J., Han, H.-C., and Chen, C.-Y., 18-21, Oct., 2009, "A cell culture system with better spatial and time resolution," Proc. of the 3rd IEEE International Conference on Nano/Molecular Medicine and Engineering (NanoMed 2009), Tainan, Taiwan, pp. 89-93
15. M.-D. Wu, Y.-C. Tsai, J.-J. Chen, W.-P. Shih, S.-H. Chang, P.-Z. Chang, J.-T. Huang, and L.-J. Yang, Jul., 2009, "Rapid dielectrophoresis assembly of single carbon nanocoil on an AFM probe tip," Technical Digest of the 15th International Conference on Solid-State Sensors, Actuators and Microsystems (**Transducers '09** - Denver), pp. 2250-2253
16. Y.-C. Tsai, N.-F. Chiu, P.-C. Liu, Y.-C Ou, H.-H. Liao, Y.-J. Yang, L.-J. Yang, U. Lei, F.-S. Chao, S.-S. Lu, C.-W. Lin, and W. -P. Shih, Jan. 25-29, 2009, "Fabrication processes of integrated multi-analyte biochip system for implantable applications", Proceeding of the 22nd IEEE MEMS (**MEMS'09**) , Sorrento, Italy, pp. 204-207
17. Ou, Y.-C., Hsu, C.-W., Yang, L.-J., Han, H.-C., Liu, Y.-W., Chen, C.-Y., 2009, "The

micropatterns of glutaraldehyde-crosslinked gelatin as ECM for attachment of tumor cells," 4th IEEE International Conference on Nano/Micro Engineered and Molecular Systems, NEMS 2009, art. no. 5068585, pp. 314-318

18. Yeh, F.-W., Yang, L.-J., Hess, G.-Y., Lee, C.-J., Chu, C.-C., Sheen, H.-J., 2009, "The arrowed surface ratchets with hydrophobic parylene for droplet transportation," 4th IEEE International Conference on Nano/Micro Engineered and Molecular Systems, NEMS 2009, art. no. 5068595, pp. 359-362
19. L.-J. Yang, Cheng-Kuei Hsu, Fu-Yuen Hsiao, Yung-Kang Shen, 5-8, Jan., 2009, "A micro-aerial-vehicle (MAV) with figure-of-eight flapping induced by flexible wing frames," 47th AIAA Aerospace Science Meeting, Orlando, USA (art. no. AIAA-2009-0875).
20. L.-J. Yang and Cheng-Kuei Hsu, 24-30, Aug., 2008, "A biomimetic figure-of-eight flapping induced by flexible wings," the 22nd International Congress of Theoretical and Applied Mechanics (ICTAM-2008), Adelaide, Australia.
21. L.-J. Yang et al., Jun. 23-26, 2008, "A biomimetic figure-of-eight flapping of micro aerial vehicles (MAVS) illuminated by LEDS," **APCOT-2008**, Tainan, TAIWAN, p. 145.
22. Lin, T.-Y., Ou, Y.-C., Yang, L.-J., 2008, "A thermopneumaticvalvelessmicropump with PDMS-based nozzle/diffuser structure for microfluidic system," *2008 Proceedings of the ASME Micro/Nanoscale Heat Transfer International Conference, MNHT 2008,* PART A, pp. 293-296
23. Lung-Jieh Yang,Cheng-Kuei Hsu, Chao-Kang Feng, H.-M. Shih, G.-H. Feng and M.-W. Gao, June 10-14, 2007, "Smart flapping wings with a PVDF sensor to modify aerodynamic performance of a micro UAV," Technical Digest of the 14th International Conference on Solid-State Sensors, Actuators and Microsystems (Transducers '07 - Lyon), pp. 1705-1708
24. Pen-Li Lu, Chu-Lin Fan, Lung-Jieh Yang, Chii-Wan Lin, Yao-Joe Yang and Fu-Shan Jaw, Jan. 16-19, 2007, "Completely parylene-coated neuroprobe for chronic recording," 2nd IEEE NEMS, paper ID: 74, Bangkok, Thailand.
25. Jiun-Min Wang and Lung-Jieh Yang, Jan. 16-19, 2007, "EHD micro-boat," 2nd IEEE NEMS, paper ID: 174, Bangkok, Thailand.
26. K.-C. Ko, K.-Y. Ho, H.-H. Wang and Lung-Jieh Yang, Jun. 25-28, 2006,"A circular microchannel integrated with embedded spiral electrodes using for fluid transportation,"The 10th Conference on Nano Engineering and Micro System Technology of Taiwan, Nov. 30, 2006., Hsin-Chu, p.165 **(Best Paper Award)**
27. Jiun-Min Wang and Lung-Jieh Yang, Jun. 25-28, 2006, "Zeta-potential effect on EHD flows," **APCOT-2006**, Singapore, p.159. (C-28)
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Patents:

1. Lung-Jieh Yang, 壓阻式壓力感測器及其封裝方法, ROC (Taiwan) patent, I258,868, 06/01/2005.
2. Yih-Min Chang and Lung-Jieh Yang, "Manufacturing method for the miniaturization of silicon bulkmachined pressure sensor," US patent 6,308,575, 10/30/2001.

Books:

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Micro Electro Mechanical Systems (MEMS)

Prof. Lung-Jieh Yang, Tamkang University, Taiwan

LJYANG@mail.tku.edu.tw

Summer, 2019

Total hours: 15

Objective:

As the rapid progress of modern civilization, human beings are stepping toward a challenging era rich of new materials, new technologies and new products. The micro-electro-mechanical systems (MEMS) with the merits of small size, multi functions and low cost of ownership was regarded as one of the most important techniques for changing man's living style. MEMS not only related with many disciplines like material science, mechanics, microelectronics, optics, medicine, biology, environment and energy, but is also induces huge impact on our daily life and economic activity

Sensors and actuators are two main pillars of transducers in micro electro mechanical systems (MEMS). Sensors are devices which transfer the physical signals (like temperature, pressure, acceleration, light intensity…) to electrical signals. On the contrary, actuators transfer electrical commands into the real application of physical manifestation like heating/cooling, displacement and light illumination... Miniaturization is of the primary concern of the transducer technology for pursuit of small size, high performance and low cost. The application of sensors and actuators to micro fluidics and Bio MEMS will be also addressed in this short course.

Content: (2 hours for topics 1-7 respectively)

1	Introduction to MEMS	**Chapter 1**
2	Micromachining	**Chapter 3**
3	CMOS MEMS	**Chapter 4**
4	Polymer MEMS	**Chapter 6**
5	Mechanical sensors	**Chapter 7**
6	Mechanical actuators	**Chapter 8**
7	Micro fluidics and Bio MEMS	
8	Final exam (1h)	

Score: Homework and attendance (50%)+ Final exam (50%)

VTU/ECE/19-20/334.

DA/11627
20/06/19.

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

Details of Professor & Course:

Name of the Professor	Prof. Dr. Lung- Jieh Yang (CV Attached)
University & Country	Tamkang University, Taiwan
Title of the Course	Introduction to Micro Electro Mechanical Systems (MEMS)
Department	Electronics and Communication Engineering
Dates of the Course	July 02 to August 14, 2019 (Weekly 4 hrs)
Total No. of Hours	15
No. of Credits	1
Category	Industry/ Higher Institute Learning
Course Content	Attached

Prepared by:
Coordinator – Directorate of Intl. Relations

Forwarded by: 19/06/19
Director – Directorate of Intl. Relations

HoD **Dean/SoEE** **Director (Academic)** **Vice Chancellor**

Dr. G.Vairavel
Head of the Department
Electronics and Communication Engineering

Prof. Dr.V. Jayasankar
Dean SoEC

Prof. Dr. techn. Koteswara Rao Anne
Director Academics

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

OFFICE OF THE VICE CHANCELLOR

SNo	Stu_Id	Stu_Name	Stu_Degree	Stu_Branch	Stu_Test_SubjectCode	Stu_Test_SubjectName	Stu_Subject_PassFail	Stu_Grade
1	VtU9112	MULLAGURI PAVAN KUMAR NAIDU	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	B
2	VtU9122	SIMHADRI YASHWANTH	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	B
3	VtU9140	ALLA PAVAN AJAY	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	B
4	VtU9147	THUMMALA NAGA SUJAN	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	B
5	VtU8958	YAKASIRI JEEVAN SREERAM REDDY	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	B
6	VtU8972	DAYIREDDY CHAITANYA KRISHNA	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	B
7	VtU8985	ARJA NAGA VENKATA BHASKAR RAMU	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	B
8	VtU9110	TONDAMANATI NAVEEN KUMAR	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	A
9	VtU10161	GUNDU SAIDEEPTHI	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	A
10	VtU10186	KOTHAPALLI GEETHIKA LAKSHMI	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	A
11	VtU9205	GANGAVARAPU PENCHALA REDDY	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	A
12	VtU9223	MUTHYALA HARISH	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	B
13	VtU9241	JANAGANI SURYATEJA	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	B
14	VtU9250	VELAGACHERLA SREENIVASULU REDDY	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	A
15	VtU9257	YARLAGADDA EMAGANGA	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	B
16	VtU9266	VEESAM CHANDRA SEKHAR REDDY	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	A
17	VtU9270	GOGULA DHEERAJ	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	B
18	VtU8945	KOTA GIREESH CHAITANYA	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	B
19	VtU9276	MUMMIDI SATYA SAI	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	A
20	VtU9299	GANGISETTY TEJASWI	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	A
21	VtU9350	NAYAKANTI REVANTH REDDY	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	C
22	VtU9457	MUNAGALA CHENCHIREDDY	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	B
23	VtU9506	NATARU NAGA LAKSHMI	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	B
24	VtU9523	PABBATHI SASHANK	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	B
25	VtU7307	KANAKANTI PRABHAKAR REDDY	B.Tech	ECE	1157EC931	Introduction to MEMS	NE	NE
26	VtU7345	KARRI BHARGAV	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	B
27	VtU9610	LOYA SAI RAMA KRISHNA	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	C
28	VtU9629	BHUMIREDDY PRATHYUSHA REDDY	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	B
29	VtU9630	SINGAMALA ANUSHA	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	A
30	VtU9833	DESU AKHIL	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	C
31	VtU9846	CHILAKALA VINEELA	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	B
32	VtU10250	CHINTHAMREDDY VENKATA SAI GEETHA	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	B
33	VtU10251	SREEJA KUMMARI	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	B
34	VtU10696	SAAM PRASANTH DHEERAJ PEDAPALLI	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	A
35	VtU10795	DUDEKULA NAVEEN TAJ	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	B
36	VtU8644	DESIREDDY SAIKUMAR REDDY	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	A
37	VtU8691	JONNALAGADDA SRAVAN KUMAR	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	B

SNo	Stu_Id	Stu_Name	Stu_Degree	Stu_Branch	Stu_Test_SubjectCode	Stu_Test_SubjectName	Stu_Subject_PassFail	Stu_Grade
38	VtU8726	CHENNUPATI ABHINAV	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	C
39	VtU8772	SHAIK MOHAMMED ZAHEER HUSSAIN	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	B
40	VtU8827	DADIREDDY RAVINDRA REDDY	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	C
41	VtU8870	TANIKELLA SAI SIVA SASANK	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	A
42	VtU8890	SRIRAM LAKSHMI NARASIMHA TARUN SAI	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	B
43	VtU8934	ATTALURI SURYA VENKATESWARA RAO	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	B
44	VtU9157	MALLIDI AKASH REDDY	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	B
45	VtU9165	GOLI UDAY BHASKAR	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	B
46	VtU9171	MALLELA GOVERDHAN REDDY	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	B
47	VtU9173	MARREDDY GAYATRI	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	C
48	VtU9194	KOLLI BHAVYA SRI	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	B
49	VtU8103	KARRA RAVI KIRAN	B.Tech	ECE	1157EC931	Introduction to MEMS	Pass	B

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Inbox.

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology

Our Ref. No: 2018/ VF 178	**Your Ref. No:**

Submitted for the Approval:

Name of the Professor: Prof. Dr. Lung- Jieh Yang

University & Country : Tamkang University, Taiwan

Course Titles : 1. Flapping Wing Dynamics (Programme Elective Course)- 36 Hrs
2. Fundamentals of MEMS (15 Hrs)

Department : 1. Aeronautical Engineering
2. Electronics and Communication Engineering

Dates : 1. July 8 to September29, 2019
2. August 5 to 9, 2019

No. of Students: Course 1: 2017-2021:19 Students
Course 2: 2017-2021:48 Students

Sl.No	Description	Amount in INR
1	Course Honorarium (Rs.3000 *51 Hrs) **(Net Amount & Tax Free)**	1,55,000
2	Advance paid (August 6th, 2019)	50,000
	Balance to Pay	**1,05,000**

(Rupees one lakh and five thousand only)

So Requesting approval to transfer the balance payment to the following account,

Account Details:

Name: Lung- Jieh Yang

Account Number: 380203082000006

Bank: Vijaya Bank (Now Bank of Baroda)

Branch: Vel Tech

IFSC Code: VIJB0003802

Thank You,

27/09/19

Entered in Budget Register
pg. 09, Sl.17

27/9/19

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Vel Tech Delegates Visited **:** Dr. S. Sivaperumal

Designation **:** Director - International Relations

Date Visited **:** 12.12.2019 to 17.12.2019

Purpose: Dr. S. Sivaperumal, Director for International Relations at Vel Tech visited universities in Taiwan during 12 - 17 Dec., 2019 and gave a keynote talk in a conference held at STUST, Taiwan. As part of the Taiwan visit, he visited Southern Taiwan University of Science and Technology, National Cheng Kung University & Tamkang University and met the faculties, higher officials towards exploring the possible academic & research cooperation and strengthening the existing relationships.



With Dr. Kaocheng Wang, Vice President for International Affairs, Dean of College of International Affairs, Professor - Graduate Institute of International Affairs & Strategic Studies, Tamkang University, Taiwan.



With Dr. Tzung-Hang Lee, Professor & Dean of the College of Engineering, Tamkang University, Taiwan



With Dr. Shung-Wen Kang, Professor & Dr. Lung-Jieh Yang, Professor of Dept. of Mechanical and Electro-Mechanical Engineering, Tamkang University, Taiwan

Delegates Attended in Virtual Meeting:

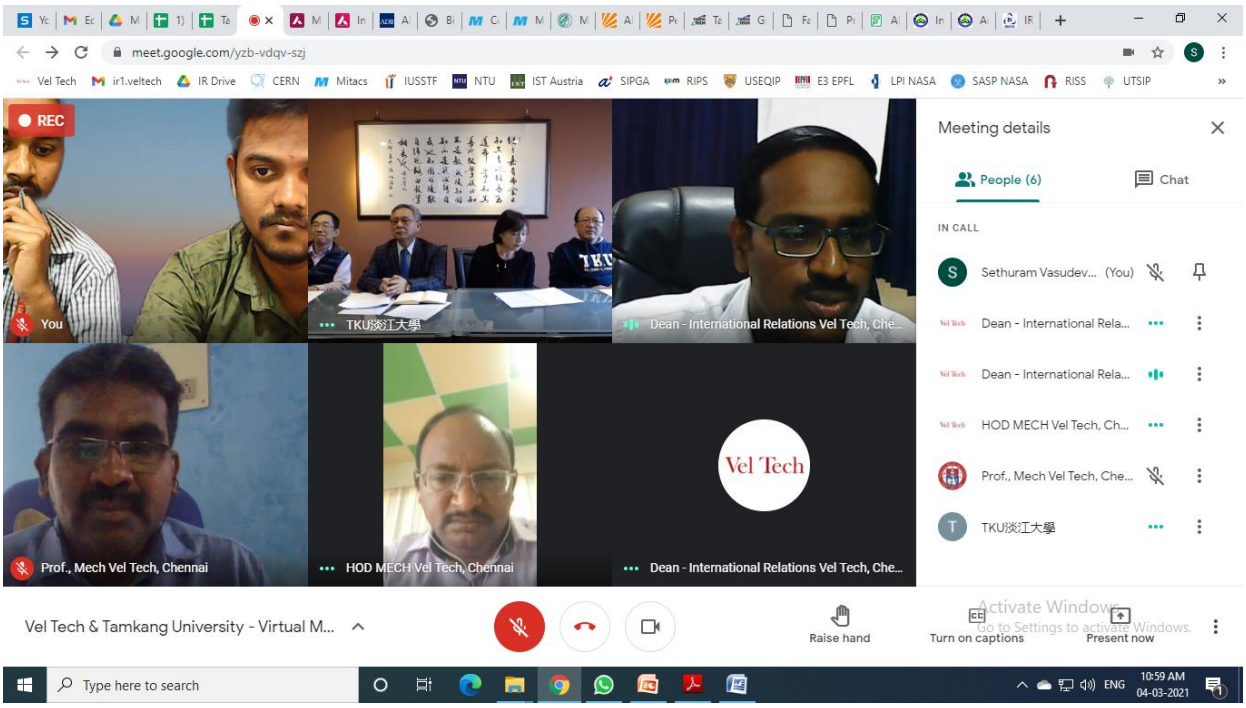
1. Dr. Kao-Cheng Wang - Vice President for International Affairs
2. Dr. Tzenge-Lien Shih - Dean, College of Science
3. Dr. Tzung-Hang Lee - Dean, College of Engineering
4. Dr. Lucia Chen - Dean, Office of International and Cross-strait Affairs
5. Prof. Lung-Jieh Yang - Professor, Department of Mechanical and Electro-Mechanical Engineering
6. Ms. Acid Chu - Section Chief, International and Cross-Strait Exchange Section

University & Country : Tamkang University, Taiwan

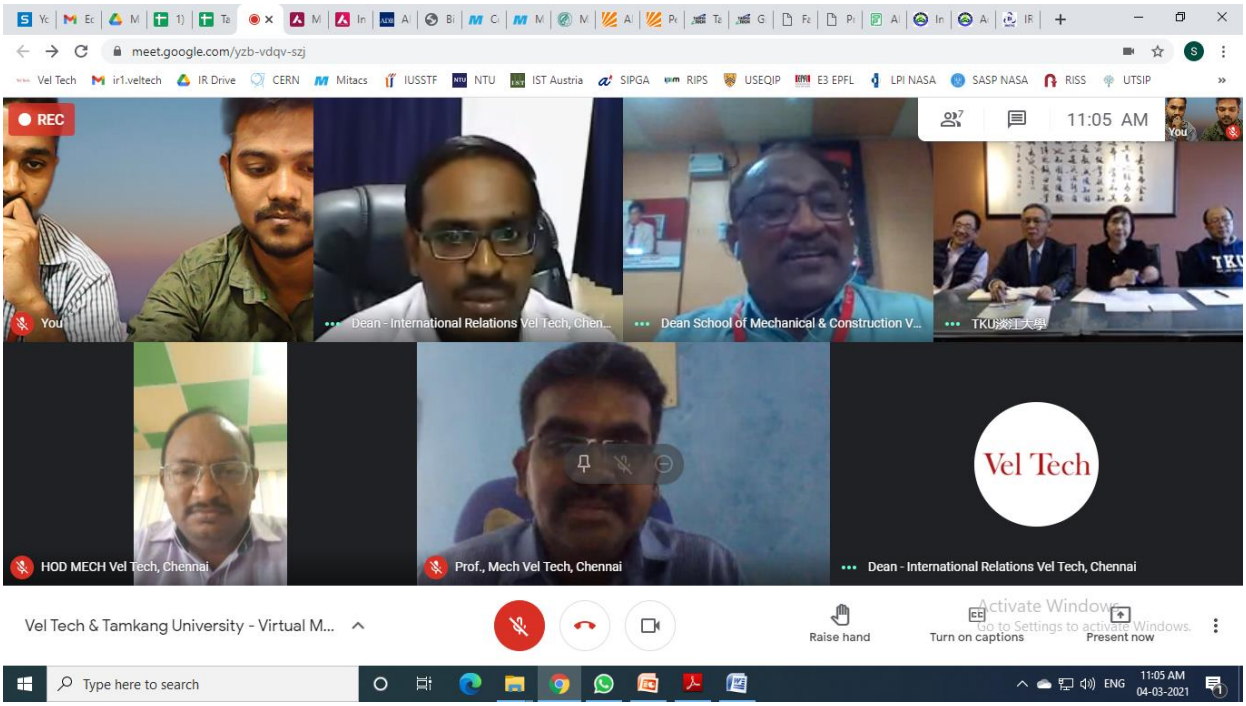
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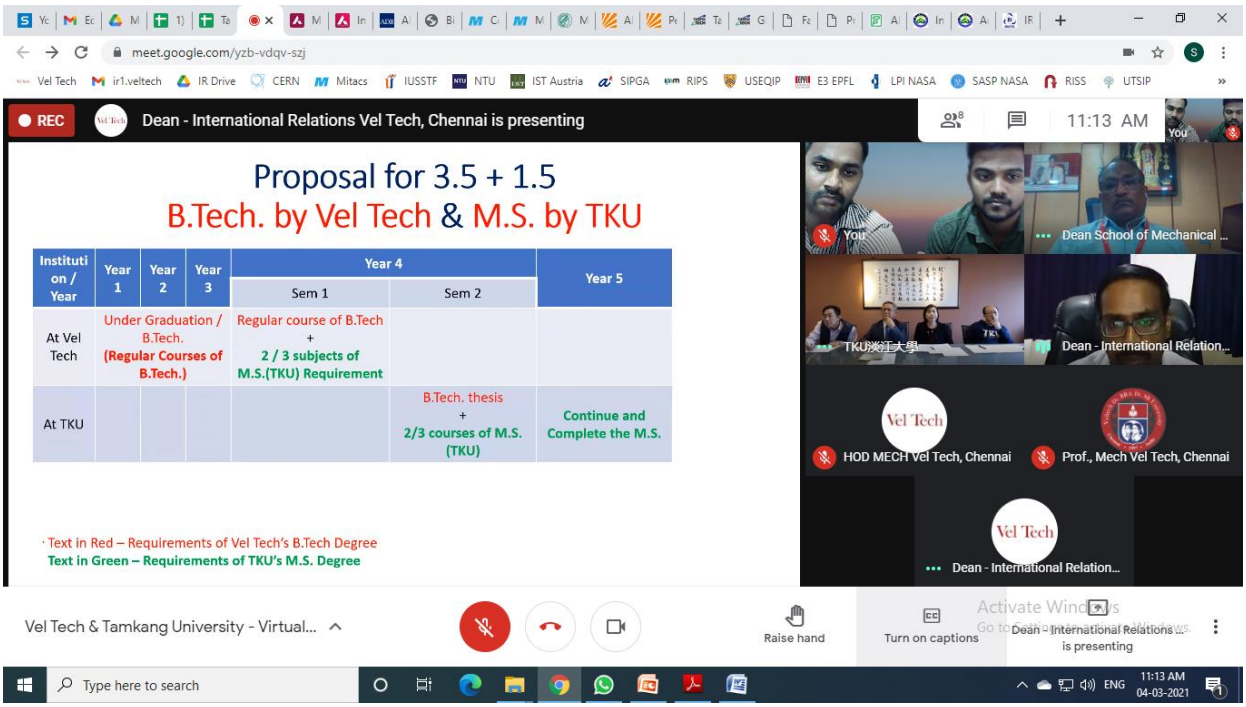
Purpose: Discussed Potential Collaborative Activities via Virtual Meet

(Research collaborations, Faculty & Student Mobility, Dual degree programs)



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At TKU
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