

LETTER OF INTENT
MEMORANDUM OF UNDERSTANDING
FOR PARTNERSHIP & COOPERATION

Between

VEL TECH DR. RR & DR. SR TECHNICAL UNIVERSITY
Chennai, India

And

CALIFORNIA STATE UNIVERSITY, FULLERTON
Fullerton, California U.S.A.

Whereas, both Vel Tech Dr. RR & Dr. SR Technical University and California State University, Fullerton(hereinafter referred to as "the Parties") recognize the importance of exchange in India-U.S. economic and social development; and

Whereas, the parties recognize the active role that exchange plays in enhancing mutual understanding, friendship and good relationships between the American and Indian peoples;

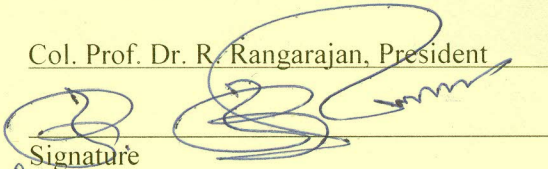
Now therefore, after friendly discussion, both parties agree as follows:

1. To actively promote academic exchange and cooperation between the two parties, which will lay a sound foundation for more extensive exchange and cooperation in area such as but not limited to; exchange of faculty members and researchers, exchange of students, joint research, lectures, talk and symposiums.
2. To seek close contacts and collaborate on using the abundant resources of the two parties to pursue education and training opportunities of mutual interest;
3. To collaboratively develop the details of program content and financial arrangements, and specify them in a supplemental agreement that will be signed by President Dr. R. Rangarajan of Vel Tech Dr. RR & Dr. SR Technical University and President Mildred Garcia of California State University, Fullerton.

This letter of intent will be effective for five years, starting from the date on which it is fully signed by the presidents of both institutions.

Vel Tech Dr. RR & Dr. SR Technical University

Col. Prof. Dr. R. Rangarajan, President

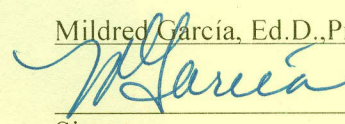

Signature

Date

11 - APRIL - 2016

California State University, Fullerton

Mildred Garcia, Ed.D., President


Signature

Date

JUN 07 2016



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

California State University, Fullerton, USA

Name of the Research Institute/University/ Organization	Country	Duration of the Agreement	Academic Year	Date of Signing	Date of Expiry	Purpose/Activities
California State University, Fullerton	USA	5 Years	2016-17	07.06.2016	06.06.2021	Exchange of Faculty, Researchers, Students Exchange, Joint Research, Lectures & symposiums

Actual Activities with California State University, Fullerton, USA	
A.Y. 2017-18	Faculty Mobility (Incoming - Short Courses) - 2
A.Y. 2018-19	Faculty Mobility (Incoming - Short Courses) - 2

[Signature]

MoU Coordinator



[Signature]
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



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 Civil Engineering

Specialized one credit course on

“Engineering Hydrology”

(1157CE907)

by

Prof. Dr. Phoolendra Mishra

California State University Fullerton, USA



Held on

Date: December 26 to 30, 2017

Phoolendra K. Mishra

Assistant Professor
Civil & Environmental Engineering
California State University, Fullerton CA 92831

Phone: (657) 278-8808
Email: pkmishra@fullerton.edu
Fax: (657) 278-3916

EDUCATIONAL BACKGROUND

Ph.D.	University of Arizona, Tucson, AZ	Hydrology & Water Resources	Dec 2010
Master's Thesis	Technical University of Aachen, Aachen, Germany	Subsurface Hydrology	Feb 2003
Master of Technology	Indian Institute of Technology Kanpur, Uttar Pradesh, India	Civil Engineering	July 2003
Bachelor of Technology	G B Pant University, Pant Nagar, Uttranchal, India	Civil Engineering	July 2001

PROFESSIONAL EXPERIENCE

<i>Assistant Professor</i> , Civil & Environmental Engineering California State University, Fullerton, California	Aug 2012 – current
<i>Postdoctoral Research Associate</i> , Earth and Environmental Sciences, Los Alamos National Laboratory, Los Alamos, NM	Oct 2010 – Aug 2012
<i>Graduate Research Assistant</i> , Hydrology and Water Resources University of Arizona, Tucson AZ	Aug 2006 – Oct 2010
<i>Lecturer</i> , Civil Engineering Department Jaypee University, Solan India	Aug 2004 – Aug 2006
<i>Assistant Engineer</i> , Consulting Engineering Services Private Limited, New Delhi, India	Aug 2003 - Aug 2004

TEACHING

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-
- **Exceptional Teaching Effectiveness** award from the California State University, Fullerton (CSUF) (October 2016).
 - **Exceptional Teaching Effectiveness** award from the California State University, Fullerton (CSUF) (March 2014).
 - **Faculty Recognition** award in teaching from Civil & Environmental Engineering Department of California State University, Fullerton (CSUF) (June 2013).
 - Courses Taught at CSUF
 - EGCE 201 Statics
 - EGCE 428 Engineering Hydraulics
 - EGCE 428L Engineering Hydraulics Laboratory

- EGCE 435 Design of Hydraulic Structures
- EGCE 436 Engineering Hydrology
- EGCE 537 Groundwater & Seepage
- EGCE 571 Hydraulics & Hydrology for Environmental Engineers (online course)

PUBLICATIONS

Books

- **Phoolendra Mishra** and Kristopher Kuhlman (2013). *Advances in Hydrogeology*, Springer, ISBN: 9781461464875.
- **Phoolendra Mishra** (2010). *Advanced Analytical Solutions for Aquifer Pumping Tests- Analysis and Evaluation*, Verlag Dr. Muller Publishing House, Germany (ISBN: 978-3-639-31417-5).

Book Chapters

- Kurwadkar Sudarshan, Garrett Struckhoff, **Phoolendra Mishra**, Nidhi Modha, Emilio Murga, Bruna Amaral, Glenda Machado, Natalia Gomes. (2015). Modeling Fate and Transport of Emerging Micro-Pollutants in the Environment. In *Emerging Micro-Pollutants in the Environment: Occurrence, Fate, and Distribution*. American Chemical Society, Vol. 1198, pp 97112, ISBN: 9780841230798.
- **Phoolendra Mishra** and Kristopher Kuhlman (2013). *Unconfined Aquifer flow Theory: From Dupuit to Present*, *Advances in Hydrogeology*, Springer, ISBN: 9781461464875.

Journal Papers – In Preparation (CSUF students marked with *)

1. Jose Avina* and **Phoolendra Mishra**. “A new model for quantifying unsaturated parameters using Infiltration data”, In preparation for *Water Resources Research* Journal.
2. Luis Alves*, **Phoolendra Mishra** and Bwalya Malama. “Slug tests in unconfined aquifer : A new mathematical model”, In preparation for *Advances in Water Resources* Journal.

Journal Papers

1. Dylan Harp, Phillip Stauffer, **Phoolendra Mishra**, Daniel Levitt, Bruce Robinson (2014). “Thermal Modeling of High- Level Nuclear Waste Disposal in a Salt Repository”, *Nuclear Technology*, Vol 187 pp 294–307.
2. S. Kelkar, G. Zyvolovski, S. Rapaka, K. Lewis, S. Karra, **Phoolendra Mishra**, R. Pawar, H. Viswanathan, S. Chu and D. Coblenz (2014). Modeling coupled thermo-hydro-mechanical processes in subsurface geological media using the simulator FEHM, *Int. Journal of Rock Mechanics and Mining Sciences*, Vol 70, pp 569-580.
3. **Phoolendra Mishra**, Vessilinov V. Velimir, Gupta V. Hoshin (2013). “On simulation and analysis of variable-rate pumping tests”, *Groundwater*, vol. 51, No.3 pp 469-473.
4. **Phoolendra Mishra**, Vessilinov V. Velimir and Neuman P. Shlomo (2012). “Radial flow to a partially penetrating well with a storage in an anisotropic confined aquifer”, *Journal of Hydrology*, Vol 448-449, pp 255-259.

5. **Phoolendra Mishra**, Vessilinov V. Velimir and Kuhlman L. Kristopher (2012). “Saturated unsaturated flow in a compressible leaky unconfined aquifer”, *Advances in Water Resources*, Vol 42, pp 62-70.
6. Neuman P. Shlomo and **Phoolendra Mishra** (2012). Comments on “A Revisit of Draw-down Behavior during Pumping in Unconfined Aquifers” by D. Mao et al., *Water Resources Research*, Vol 48 (2), pp 76-78.
7. **Phoolendra Mishra** and Neuman P. Shlomo (2011). “Saturated-unsaturated flow to a well with storage in a compressible unconfined aquifer”, *Water Resources Research*, Vol 47(5), W05553, doi: 10.1029/2010WR01077.
8. **Phoolendra Mishra** and Neuman P. Shlomo (2010), “Improved forward and inverse analyses of saturated-unsaturated flow toward a well in a compressible unconfined aquifer”, *Water Resources Research*, 46, W07508, doi:10.1029/ 2009WR008899.
9. **Phoolendra Mishra** and Neuman P. Shlomo, (2009). “Pumping Tests Determination of Unsaturated Aquifer Properties”, *Jornaes de Investigation en la Zona no Saturada del Suelo*, Barcelona, Spain.
10. Kristopher L. Kuhlman , Andrew C. Hinnell, **Phoolendra Mishra**, TC Jim Yeh TC, (2008) “Basin-scale transmissivity and storativity estimation using hydraulic tomography”, *Groundwater*, Vol 46 (5).

Conference Proceeding Papers (CSUF students marked with *)

1. Binh Le*, Diana Gonzalez* and **Phoolendra Mishra** (2014). “Identification of contaminant source in pipe network systems”, Proceedings of the 12th International conference on Geodisaster reduction, (Awarded 3rd student best paper award).
2. V. Vesselinov , D. Katzman, D. Broxton, K. Birdsell, S. Reneau, D. Vaniman, P. Longmire, June Fabryka-Martin, Jeff Heikoop, Mei Ding, Don Hickmott, Elaine Jacobs, T. Goering, D. Harp, **Phoolendra Mishra**, (2013). Data and Model-Driven Decision Support for Environmental Management of a Chromium Plume at Los Alamos National Laboratory (LANL), *Annual Waste Management (WM) conference proceedings*, Phoenix, AZ.
3. **Phoolendra Mishra** and Neuman P. Shlomo (2011). “Pumping test characterization of deep vadose zone properties”, *Annual Waste Management (WM) conference proceedings*, Phoenix, AZ.

Conference Papers and Presentations (CSUF students marked with *)

1. Hugo Elias* and **Phoolendra Mishra** (2016). “River analysis and floodplain modeling using HEC-GeoRAS/RAS, GIS and ArcGIS: a case study for the Salinas River”, *accepted* for presentation at *American Geophysical Union Fall Meeting*, San Francisco.
2. Sharma D. K. and **Phoolendra Mishra** (2015). “Supplementing Value For Money (VfM) Analysis with Bayesian Networks”, *Transportation Research Board (TRB) Annual Meeting*.
3. Jose Avina* and **Phoolendra Mishra** (2015). “Improved Analytical Model for Infiltration Towards the Water Table”, *accepted* for presentation at *American Geophysical Union Fall Meeting*, San Francisco.

4. Luis Alves*, **Phoolendra Mishra** and Bwyalya Malama (2015). “Semi-analytical model for slug test in unconfined aquifers”, *accepted* for presentation at *American Geophysical Union Fall Meeting*, San Francisco.
5. Sharma D. K., **Phoolendra Mishra**, Avetisyan H., and Cui Q. (2015). “Bayesian Network as a Tool to Ensure Value for Money from Public Private Partnerships”, Project Management Symposium 2015, University of Maryland.
6. Binh Le*, Diana Gonzalez*, **Phoolendra Mishra** (2014). “Framework for contamination detection in pipe network systems”, 22nd Annual Southern California Conference on Undergraduate Research (SCCUR 2014).
7. Soheil Shakoori and **Phoolendra Mishra** (2014). “ Cal bottle : Unique design for reusable water bottle”, 7th Annual Spring Green Expo, Metropolitan Water District, Los Angeles.
8. **Phoolendra Mishra**, Chinh Do*, Kyle Hilton* (2013). “Water infiltration and its redistribution in unsaturated soil”, presented at *American Geophysical Union Fall Meeting*, San Francisco.
9. Alexander Hansen* and **Phoolendra Mishra** (2013). “Air-water flow in subsurface”, presented at *American Geophysical Union Fall Meeting*, San Francisco.
10. R. Barzaghi, D. Carrion, **Phoolendra Mishra**, A. Gudagnini (2013). Coupling hydraulic and gravity information for improved aquifer characterization, Geophysical research, European Geophysical Union (EGU) General Assembly, Vienna, Austria.
11. **Phoolendra Mishra** (2012). Computational modeling of subsurface systems, International conference on hydrology & groundwater expo, San Antonio, TX (Invited).
12. **Phoolendra Mishra** and Kristopher Kuhlman (2012). Radial flow towards well in leaky unconfined aquifer, *American Geophysical Union Fall Meeting*, 2012.
13. S. Painter; J. Moulton; M. Berndt; E. Coon; G. Rao; K. Lewis; G. Manzini; **Phoolendra Mishra**; B. Travis; C. Wilson (2012). Development of capability for microtopography-resolving simulations of hydrologic processes in permafrost affected regions, *American Geophysical Union Fall Meeting*, 2012.
14. V. Vesselinov; D. Harp; **Phoolendra Mishra**; D. Katzman (2012). Model-driven decision support for monitoring network design: methods and applications (Invited), *American Geophysical Union Fall Meeting*, 2012.
15. **Phoolendra Mishra**, Zyvoloski A. George, Pawar Rajesh, (2012). Analysis of coupled thermal-hydrologic-mechanical model for Springerville CO2 reservoir, *11th Annual Carbon Capture and Sequestration Conference*, Pittsburgh, Pennsylvania.
16. **Phoolendra Mishra**, Painter L. Scott, Zyvoloski A. George, (2012). Coupled processes model for partially frozen soils, *Flow and Transport in Porous Medium*, American Society of Mechanical Engineers, Houston, Texas , *invited*.
17. **Phoolendra Mishra**, Vesselinov V. Velimir, Miller Terry, Harp Dylan, (2011). Data intensive simulation and analysis of groundwater flow and transport in the Los Alamos aquifer , *American Geophysical Union Fall Meeting*, 2011.

18. Birdsell H. Kay, **Phoolendra Mishra**, Vessilinov V. Velimir (2011). Variable rate pumping test analysis for aquifer parameter evaluation, *American Geophysical Union* Fall Meeting, 2011.
19. **Phoolendra Mishra** and Shlomo P. Neuman, (2010). Saturated-unsaturated flow to partially penetrating well with storage in a compressible unconfined aquifer, *American Geophysical Union* Fall Meeting, 2010.
20. **Phoolendra Mishra** and Shlomo P. Neuman, (2010). Pumping test inference of saturated-unsaturated aquifer properties, 20th *Annual El Dia Del Agua* showcase.
21. **Phoolendra Mishra** and Shlomo P. Neuman, (2010). Radial flow to a partially penetrating well with storage in a confined aquifer, 20th *Annual El Dia Del Agua* showcase.
22. **Phoolendra Mishra** and Shlomo P. Neuman (2009). Improved solution for saturated-unsaturated flow to partially penetrating well in a compressible unconfined aquifer, *American Geophysical Union* Fall Meeting, 2009.
23. Vessilinov V. Velimir, **Phoolendra Mishra**, Shlomo P. Neuman, (2009). Analytical solution for flow to partially penetrating well with storage in a confined aquifer, *American Geophysical Union* Fall meeting, 2009.
24. **Phoolendra Mishra** and Shlomo P. Neuman, (2009). A new analytical solution for analysing unconfined aquifer pumping tests, 19th *Annual El Dia Del Agua* showcase, 2009.
25. **Phoolendra Mishra** and Shlomo P. Neuman, (2008). Pumping Test determination of unsaturated aquifer properties, *American Geophysical Union* Fall Meeting, 2008
26. **Phoolendra Mishra** and TC Jim Yeh TC, (2008). Effects of adaptive mesh refinement on hydraulic properties of aquifer, 18th *Annual El Dia Del Agua* showcase.

Reports archived in the library of Los Alamos National Laboratory

1. **Phoolendra Mishra** (2011), Hydrologic testing report for consolidated unit 16-021(c)-99, LA-UR-11-03072, *lanl-repo/lareport/LA-UR-11-03072*.
2. **Phoolendra Mishra** and Vessilinov V. Velimir (2011), WELLS: Multi-well variable rate pumping test analysis tool, LA-UR-11-11478, *lanl-repo/lareport/LA-UR-11-11478*
3. Corrective Measures Evaluation Report for Material Disposal Area G, Consolidated Unit 54-013(b)-99, at Technical Area 54, Revision 3, ERID-206324 ; *lanl-repo/lareport/LA-UR-11-4910* ; *EP2011-0284* ; *EP2011-0283*
4. Corrective measures evaluation report for material disposal area L, solid waste management unit 54-006, at Technical Area 54, ERID-205756 ; *lanl-repo/lareport/LA-UR-11-4798* ; *EP2011-0249* ; *EP2011-0248*
5. Corrective measures evaluation report for material disposal area H, solid waste management unit 54-004, at Technical Area 54, ERID-206319 ; *lanl-repo/lareport/LA-UR-11-5079* ; *EP2011-0291* ; *EP2011-0290*
6. Investigation report for water canyon / canon de valle, ERID-207069 ; *lanl-repo/lareport/LA-UR-11-5478* ; *EP2011-0227*

PROFESSIONAL AFFILIATION

- *Elected Member* of Sigma Xi, The scientific Research Society
- *Member* American Geophysical Union (AGU)

ACADEMIC DISTINCTIONS AND AWARDS

- **GEOSYNTEC, INC. Best Student Research Paper** Award National Competition 2010 from Geosyntec Consultants Inc. USA,
- **Hargis award** by Hargis Associates for best student poster presentation at University of Arizona 20th Annual *El Dia Del Agua* showcase 2010.
- **John and Margaret Hershberger Doctoral fellow** in Subsurface Hydrology-Hydrogeology from Hydrology and Water Resources Department of University of Arizona (January 2009),
- **Eugene S Simpson fellow** in groundwater from Hydrology and Water Resources Department of University of Arizona (January 2008),
- **Graduate College Fee Scholarship** Award from Hydrology and Water Resources department of University of Arizona (Fall 2007- Spring 2008),
- **Graduate College Fellowship** from University of Arizona (Fall 2006- Spring 2007),
- **Deutscher Akademischer Austausch Dienst (DAAD)fellowship** from the German government for pursuing my Masters thesis work at the Technical University Rstheinisch Westf'alsche Technische Hochschule (RWTH) Aachen, Germany for one academic year (May2002 February 2003),
- Graduate Research Assistantship during Masters at Indian Institute of Technology Kanpur, India (August 2001-May 2003),
- Secured percentile of **99.53** in a National level talent search exam named "Graduate Aptitude Test in Engineering" (GATE) conducted by Ministry of Human Resources Development of the Government of India.
- Based upon national talent search examination awarded **full scholarship** for all boarding, lodging and living expenses during **pre-college education** from Human Resources Development division of Government of India.

PROFESSIONAL SERVICES

- **Excellence in Referring Award**, from the Water Resources Research Journal, the most prestigious journal in Water Resources area.
- **Outstanding Reviewer Award**, from the Advances in Water Resources Journal, a prestigious journal in Water Resources area.

- Member of **Groundwater Technical Committee** American Geophysical Union Fall meeting 2013-current.
- Organized technical sessions at international conference, “Innovative methods in Hydrogeology”, American Geophysical Union Fall meeting, 2013.
- Organized technical session at international conference, “Modern Approaches in Hydrogeology”, American Geophysical Union Fall meeting, 2012.
- Organized technical session at international conference, “Recent Advances in Hydrogeology : Innovative solution to single and multiphase issues”, American Geophysical Union Fall Meeting 2011.
- Reviewer (Journals) - *Water Resources Research, Journal of Hydrology, Hydrological Processes, Journal of Contaminant Hydrology, Groundwater and Advances in Water Resources.*
- Student Judge - *American Geophysical Union Fall Meeting* 2011 and 2012.
- Graduate Student Council (GSC) Representative from Hydrology and Water Resources Department, College of Science, University of Arizona (2009-2010)
- Member Department Post-Graduate Committee (DPGC), a forum of postgraduate student and faculty to look after and improve academic as well as non-academic activities of student at Indian Institute of Technology Kanpur India. (2001-2002)

UNIVERSITY, COLLEGE & DEPARTMENT SERVICES

- **Member** University Curriculum Committee, Since August 2016 – current.
- **Member** University Committee on diversity and inclusion, February 2016 – current.
- **Member** University Committee on Information Technology, Since August 2015 – current.
- **Member** University Committee on Student Academic Life, Since February 2013 – current.
- **Member** New Faculty Selection Committee, Civil & Environmental Engineering , Spring 2015.
- **Member** ABET Committee, Civil & Environmental Engineering , Spring 2014 – current.
- **Chair** Curriculum Committee, Civil & Environmental Engineering , Fall 2016 – current.
- **Chair** Scheduling Committee, Civil & Environmental Engineering , Fall 2016 – current.
- **Chair** Computer Systems & Website Committee, Civil & Environmental Engineering , Fall 2014 – current.
- **Undergraduate Advisor**, Civil & Environmental Engineering , Fall 2013 – current.
- **Chair** Library Committee, Civil & Environmental Engineering , Fall 2013 – Spring 2014.



Engineering Hydrology

Short Course

Dec 18 - Dec 24, 2017



Dr. Mishra received his PhD from the University of Arizona. Prior to joining California State University Fullerton, he worked at Los Alamos National Laboratory. Dr. Mishra has taught wide range of graduate and undergraduate courses and is recipient of exceptional teaching effectiveness award from California State University Fullerton. Dr. Mishra actively engages undergraduate and graduate students in his research and promotes engineering education through hands-on activities.

The hydrologic cycle is so simple that even kindergartners can understand yet so complex that scientist around the globe are working hard, yet can not fully understand it. Through this course, we investigate various hydrologic processes and their engineering applications in the areas of water resources and stormwater management.

Topics covered in this course include:

- Precipitation distribution and measurements
- Infiltration and soil processes
- Evaporation and evapotranspiration
- Runoff and stream processes
- Hydrograph analysis
- Flood frequency analysis
- Flood routing and reservoir management

Dr. Phoolendra Mishra, Ph.D
Assistant Professor
pkmishra@fullerton.edu
Ph: (657)-278-8808

For more information Contact:
Dr. S. Sivaperumal,
Director International Relations
Veltech Dr.RR & Dr.SR University
Email : dint@veltechuniv.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)

Date: 30.01.2018

Our Ref No : DA/ARS/18/016

Ref No :

To

Controller of Examination

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

Sub: Allocation of course code – reg

Respected Sir,

The following course syllabus were framed and allocated course code under the Industry/Higher Learning Institute Interaction (clause 7.2.8 in VTUR15) for your kind reference.

S.NO	COURSE CODE	COURSE NAME
1	1157CE907	Engineering Hydrology


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)

400 Feet Outer Ring Road, Avadi,
Chennai-600 062, Tamil Nadu, India.
Landline : +044 33870055
Email : vtu@veltechuniv.edu.in
Website : www.veltechuniv.edu.in

SNo	Stu_Id	Stu_Name	Stu_Branch	Stu_Test_SubjectCode	Stu_Test_SubjectName	Stu_Subject_PassFail	Stu_Grade
1	VTU6017	AITHA AKHIL	CIVIL	1157CE907	Engineering Hydrology	Pass	D
2	VTU6336	ALUGADDA NITHIN KRISHNA	CIVIL	1157CE907	Engineering Hydrology	Pass	C
3	VtU6540	SIDAGAM ESWAR	CIVIL	1157CE907	Engineering Hydrology	Pass	D
4	VtU8450	PREMASHIS PAUL	CIVIL	1157CE907	Engineering Hydrology	Pass	D
5	VTU5920	MD ZAMIN S	CIVIL	1157CE907	Engineering Hydrology	Pass	D
6	VtU6675	SHUSHREE CHINMAYEE DWIBEDY	CIVIL	1157CE907	Engineering Hydrology	Pass	C
7	VTU5953	SAMPAUL.K	CIVIL	1157CE907	Engineering Hydrology	Pass	C
8	VtU6587	HEMNATH G	CIVIL	1157CE907	Engineering Hydrology	Pass	C
9	VtU6505	TINA DAS	CIVIL	1157CE907	Engineering Hydrology	Pass	C
10	VtU5867	RAKSHA.S.G	CIVIL	1157CE907	Engineering Hydrology	Pass	B
11	VtU7772	BIBEK GUPTA	CIVIL	1157CE907	Engineering Hydrology	Pass	B
12	VTU8218	GEI NGUBA	CIVIL	1157CE907	Engineering Hydrology	Pass	B
13	VTU6227	NEETAM MOIRANGJAM	CIVIL	1157CE907	Engineering Hydrology	Pass	B
14	VtU6837	CHUKKALA JAYA SRI	CIVIL	1157CE907	Engineering Hydrology	Pass	D
15	VTU6174	POLAMREDDY VINAY KUMAR REDDY	CIVIL	1157CE907	Engineering Hydrology	Pass	D



Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University) Est. up to UGC Act, 1986

Our Ref. No: 2017/VF 23 & 24

Your Ref. No:

Submitted for the Approval:

Name of the Professor: Prof. Phoolendra Kumar Mishra

University & Country : California State University, Fullerton, USA

Course Titles : Engineering Hydraulics & Engineering Hydrology

Department : Mechanical and Civil Engineering

Students : 2016-2020, 52 Students ✓
2015-2019, 7 Students ✓

Training Program date: 26th to 30th December, 2017 (FN & AN)

Sl.No	Description	Amount in INR
1	Course Honorarium (Rs.3000 * 40Hrs) <i>20 - Mechanical</i> (Net Amount & Tax Free) <i>20 - Civil</i>	120000
2	Flight Ticket (306.80USD)(1 USD =85.1903 as on 14 th Nov,2017) (To be reimbursed , Bill Enclosed)	20000
	Total	140000

(Rupees one lakh forty thousand only)

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

Name : Phoolendra Kumar Mishra

Bank name: ICICI Bank

Account No: 635301503170

IFSC Code : ICIC0006353

Thank You

S. Sivaperumal
27/12/17

Dr. S. Sivaperumal
Director International Relations

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University) Est. up to UGC Act, 1986



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 Mechanical Engineering

Specialized one credit course on
“Engineering Hydraulics”
(1157ME917)

by

Prof. Dr. Phoolendra Mishra
California State University Fullerton, USA



Held on

Date: December 26 to 30, 2017

Phoolendra K. Mishra

Assistant Professor
Civil & Environmental Engineering
California State University, Fullerton CA 92831

Phone: (657) 278-8808
Email: pkmishra@fullerton.edu
Fax: (657) 278-3916

EDUCATIONAL BACKGROUND

Ph.D.	University of Arizona, Tucson, AZ	Hydrology & Water Resources	Dec 2010
Master's Thesis	Technical University of Aachen, Aachen, Germany	Subsurface Hydrology	Feb 2003
Master of Technology	Indian Institute of Technology Kanpur, Uttar Pradesh, India	Civil Engineering	July 2003
Bachelor of Technology	G B Pant University, Pant Nagar, Uttranchal, India	Civil Engineering	July 2001

PROFESSIONAL EXPERIENCE

<i>Assistant Professor</i> , Civil & Environmental Engineering California State University, Fullerton, California	Aug 2012 – current
<i>Postdoctoral Research Associate</i> , Earth and Environmental Sciences, Los Alamos National Laboratory, Los Alamos, NM	Oct 2010 – Aug 2012
<i>Graduate Research Assistant</i> , Hydrology and Water Resources University of Arizona, Tucson AZ	Aug 2006 – Oct 2010
<i>Lecturer</i> , Civil Engineering Department Jaypee University, Solan India	Aug 2004 – Aug 2006
<i>Assistant Engineer</i> , Consulting Engineering Services Private Limited, New Delhi, India	Aug 2003 - Aug 2004

TEACHING

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- **Exceptional Teaching Effectiveness** award from the California State University, Fullerton (CSUF) (October 2016).
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 - Courses Taught at CSUF
 - EGCE 201 Statics
 - EGCE 428 Engineering Hydraulics
 - EGCE 428L Engineering Hydraulics Laboratory

- EGCE 435 Design of Hydraulic Structures
- EGCE 436 Engineering Hydrology
- EGCE 537 Groundwater & Seepage
- EGCE 571 Hydraulics & Hydrology for Environmental Engineers (online course)

PUBLICATIONS

Books

- **Phoolendra Mishra** and Kristopher Kuhlman (2013). *Advances in Hydrogeology*, Springer, ISBN: 9781461464875.
- **Phoolendra Mishra** (2010). *Advanced Analytical Solutions for Aquifer Pumping Tests- Analysis and Evaluation*, Verlag Dr. Muller Publishing House, Germany (ISBN: 978-3-639-31417-5).

Book Chapters

- Kurwadkar Sudarshan, Garrett Struckhoff, **Phoolendra Mishra**, Nidhi Modha, Emilio Murga, Bruna Amaral, Glenda Machado, Natalia Gomes. (2015). Modeling Fate and Transport of Emerging Micro-Pollutants in the Environment. In *Emerging Micro-Pollutants in the Environment: Occurrence, Fate, and Distribution*. American Chemical Society, Vol. 1198, pp 97112, ISBN: 9780841230798.
- **Phoolendra Mishra** and Kristopher Kuhlman (2013). *Unconfined Aquifer flow Theory: From Dupuit to Present*, *Advances in Hydrogeology*, Springer, ISBN: 9781461464875.

Journal Papers – In Preparation (CSUF students marked with *)

1. Jose Avina* and **Phoolendra Mishra**. “A new model for quantifying unsaturated parameters using Infiltration data”, In preparation for *Water Resources Research* Journal.
2. Luis Alves*, **Phoolendra Mishra** and Bwalya Malama. “Slug tests in unconfined aquifer : A new mathematical model”, In preparation for *Advances in Water Resources* Journal.

Journal Papers

1. Dylan Harp, Phillip Stauffer, **Phoolendra Mishra**, Daniel Levitt, Bruce Robinson (2014). “Thermal Modeling of High- Level Nuclear Waste Disposal in a Salt Repository”, *Nuclear Technology*, Vol 187 pp 294–307.
2. S. Kelkar, G. Zyvolovski, S. Rapaka, K. Lewis, S. Karra, **Phoolendra Mishra**, R. Pawar, H. Viswanathan, S. Chu and D. Coblenz (2014). Modeling coupled thermo-hydro-mechanical processes in subsurface geological media using the simulator FEHM, *Int. Journal of Rock Mechanics and Mining Sciences*, Vol 70, pp 569-580.
3. **Phoolendra Mishra**, Vessilinov V. Velimir, Gupta V. Hoshin (2013). “On simulation and analysis of variable-rate pumping tests”, *Groundwater*, vol. 51, No.3 pp 469-473.
4. **Phoolendra Mishra**, Vessilinov V. Velimir and Neuman P. Shlomo (2012). “Radial flow to a partially penetrating well with a storage in an anisotropic confined aquifer”, *Journal of Hydrology*, Vol 448-449, pp 255-259.

5. **Phoolendra Mishra**, Vessilinov V. Velimir and Kuhlman L. Kristopher (2012). “Saturated unsaturated flow in a compressible leaky unconfined aquifer”, *Advances in Water Resources*, Vol 42, pp 62-70.
6. Neuman P. Shlomo and **Phoolendra Mishra** (2012). Comments on “A Revisit of Draw-down Behavior during Pumping in Unconfined Aquifers” by D. Mao et al., *Water Resources Research*, Vol 48 (2), pp 76-78.
7. **Phoolendra Mishra** and Neuman P. Shlomo (2011). “Saturated-unsaturated flow to a well with storage in a compressible unconfined aquifer”, *Water Resources Research*, Vol 47(5), W05553, doi: 10.1029/2010WR01077.
8. **Phoolendra Mishra** and Neuman P. Shlomo (2010), “Improved forward and inverse analyses of saturated-unsaturated flow toward a well in a compressible unconfined aquifer”, *Water Resources Research*, 46, W07508, doi:10.1029/ 2009WR008899.
9. **Phoolendra Mishra** and Neuman P. Shlomo, (2009). “Pumping Tests Determination of Unsaturated Aquifer Properties”, *Jornaes de Investigation en la Zona no Saturada del Suelo*, Barcelona, Spain.
10. Kristopher L. Kuhlman , Andrew C. Hinnell, **Phoolendra Mishra**, TC Jim Yeh TC, (2008) “Basin-scale transmissivity and storativity estimation using hydraulic tomography”, *Ground-water*, Vol 46 (5).

Conference Proceeding Papers (CSUF students marked with *)

1. Binh Le*, Diana Gonzalez* and **Phoolendra Mishra** (2014). “Identification of contaminant source in pipe network systems”, Proceedings of the 12th International conference on Geodisaster reduction, (Awarded 3rd student best paper award).
2. V. Vesselinov , D. Katzman, D. Broxton, K. Birdsell, S. Reneau, D. Vaniman, P. Longmire, June Fabryka-Martin, Jeff Heikoop, Mei Ding, Don Hickmott, Elaine Jacobs, T. Goering, D. Harp, **Phoolendra Mishra**, (2013). Data and Model-Driven Decision Support for Environmental Management of a Chromium Plume at Los Alamos National Laboratory (LANL), *Annual Waste Management (WM) conference proceedings*, Phoenix, AZ.
3. **Phoolendra Mishra** and Neuman P. Shlomo (2011). “Pumping test characterization of deep vadose zone properties”, *Annual Waste Management (WM) conference proceedings*, Phoenix, AZ.

Conference Papers and Presentations (CSUF students marked with *)

1. Hugo Elias* and **Phoolendra Mishra** (2016). “River analysis and floodplain modeling using HEC-GeoRAS/RAS, GIS and ArcGIS: a case study for the Salinas River”, *accepted* for presentation at *American Geophysical Union Fall Meeting*, San Francisco.
2. Sharma D. K. and **Phoolendra Mishra** (2015). “Supplementing Value For Money (VfM) Analysis with Bayesian Networks”, *Transportation Research Board (TRB) Annual Meeting*.
3. Jose Avina* and **Phoolendra Mishra** (2015). “Improved Analytical Model for Infiltration Towards the Water Table”, *accepted* for presentation at *American Geophysical Union Fall Meeting*, San Francisco.

4. Luis Alves*, **Phoolendra Mishra** and Bwyalya Malama (2015). “Semi-analytical model for slug test in unconfined aquifers”, *accepted* for presentation at *American Geophysical Union* Fall Meeting, San Francisco.
5. Sharma D. K., **Phoolendra Mishra**, Avetisyan H., and Cui Q. (2015). “Bayesian Network as a Tool to Ensure Value for Money from Public Private Partnerships”, Project Management Symposium 2015, University of Maryland.
6. Binh Le*, Diana Gonzalez*, **Phoolendra Mishra** (2014). “Framework for contamination detection in pipe network systems”, 22nd Annual Southern California Conference on Undergraduate Research (SCCUR 2014).
7. Soheil Shakoori and **Phoolendra Mishra** (2014). “ Cal bottle : Unique design for reusable water bottle”, 7th Annual Spring Green Expo, Metropolitan Water District, Los Angeles.
8. **Phoolendra Mishra**, Chinh Do*, Kyle Hilton* (2013). “Water infiltration and its redistribution in unsaturated soil”, presented at *American Geophysical Union* Fall Meeting, San Francisco.
9. Alexander Hansen* and **Phoolendra Mishra** (2013). “Air-water flow in subsurface”, presented at *American Geophysical Union* Fall Meeting, San Francisco.
10. R. Barzaghi, D. Carrion, **Phoolendra Mishra**, A. Gudagnini (2013). Coupling hydraulic and gravity information for improved aquifer characterization, Geophysical research, European Geophysical Union (EGU) General Assembly, Vienna, Austria.
11. **Phoolendra Mishra** (2012). Computational modeling of subsurface systems, International conference on hydrology & groundwater expo, San Antonio, TX (Invited).
12. **Phoolendra Mishra** and Kristopher Kuhlman (2012). Radial flow towards well in leaky unconfined aquifer, *American Geophysical Union* Fall Meeting, 2012.
13. S. Painter; J. Moulton; M. Berndt; E. Coon; G. Rao; K. Lewis; G. Manzini; **Phoolendra Mishra**; B. Travis; C. Wilson (2012). Development of capability for microtopography-resolving simulations of hydrologic processes in permafrost affected regions, *American Geophysical Union* Fall Meeting, 2012.
14. V. Vesselinov; D. Harp; **Phoolendra Mishra**; D. Katzman (2012). Model-driven decision support for monitoring network design: methods and applications (Invited), *American Geophysical Union* Fall Meeting, 2012.
15. **Phoolendra Mishra**, Zyvoloski A. George, Pawar Rajesh, (2012). Analysis of coupled thermal-hydrologic-mechanical model for Springerville CO2 reservoir, *11th Annual Carbon Capture and Sequestration Conference*, Pittsburgh, Pennsylvania.
16. **Phoolendra Mishra**, Painter L. Scott, Zyvoloski A. George, (2012). Coupled processes model for partially frozen soils, *Flow and Transport in Porous Medium*, American Society of Mechanical Engineers, Houston, Texas , *invited*.
17. **Phoolendra Mishra**, Vesselinov V. Velimir, Miller Terry, Harp Dylan, (2011). Data intensive simulation and analysis of groundwater flow and transport in the Los Alamos aquifer , *American Geophysical Union* Fall Meeting, 2011.

18. Birdsell H. Kay, **Phoolendra Mishra**, Vessilinov V. Velimir (2011). Variable rate pumping test analysis for aquifer parameter evaluation, *American Geophysical Union* Fall Meeting, 2011.
19. **Phoolendra Mishra** and Shlomo P. Neuman, (2010). Saturated-unsaturated flow to partially penetrating well with storage in a compressible unconfined aquifer, *American Geophysical Union* Fall Meeting, 2010.
20. **Phoolendra Mishra** and Shlomo P. Neuman, (2010). Pumping test inference of saturated-unsaturated aquifer properties, 20th *Annual El Dia Del Agua* showcase.
21. **Phoolendra Mishra** and Shlomo P. Neuman, (2010). Radial flow to a partially penetrating well with storage in a confined aquifer, 20th *Annual El Dia Del Agua* showcase.
22. **Phoolendra Mishra** and Shlomo P. Neuman (2009). Improved solution for saturated-unsaturated flow to partially penetrating well in a compressible unconfined aquifer, *American Geophysical Union* Fall Meeting, 2009.
23. Vessilinov V. Velimir, **Phoolendra Mishra**, Shlomo P. Neuman, (2009). Analytical solution for flow to partially penetrating well with storage in a confined aquifer, *American Geophysical Union* Fall meeting, 2009.
24. **Phoolendra Mishra** and Shlomo P. Neuman, (2009). A new analytical solution for analysing unconfined aquifer pumping tests, 19th *Annual El Dia Del Agua* showcase, 2009.
25. **Phoolendra Mishra** and Shlomo P. Neuman, (2008). Pumping Test determination of unsaturated aquifer properties, *American Geophysical Union* Fall Meeting, 2008
26. **Phoolendra Mishra** and TC Jim Yeh TC, (2008). Effects of adaptive mesh refinement on hydraulic properties of aquifer, 18th *Annual El Dia Del Agua* showcase.

Reports archived in the library of Los Alamos National Laboratory

1. **Phoolendra Mishra** (2011), Hydrologic testing report for consolidated unit 16-021(c)-99, LA-UR-11-03072, *lanl-repo/lareport/LA-UR-11-03072*.
2. **Phoolendra Mishra** and Vessilinov V. Velimir (2011), WELLS: Multi-well variable rate pumping test analysis tool, LA-UR-11-11478, *lanl-repo/lareport/LA-UR-11-11478*
3. Corrective Measures Evaluation Report for Material Disposal Area G, Consolidated Unit 54-013(b)-99, at Technical Area 54, Revision 3, ERID-206324 ; *lanl-repo/lareport/LA-UR-11-4910* ; *EP2011-0284* ; *EP2011-0283*
4. Corrective measures evaluation report for material disposal area L, solid waste management unit 54-006, at Technical Area 54, ERID-205756 ; *lanl-repo/lareport/LA-UR-11-4798* ; *EP2011-0249* ; *EP2011-0248*
5. Corrective measures evaluation report for material disposal area H, solid waste management unit 54-004, at Technical Area 54, ERID-206319 ; *lanl-repo/lareport/LA-UR-11-5079* ; *EP2011-0291* ; *EP2011-0290*
6. Investigation report for water canyon / canon de valle, ERID-207069 ; *lanl-repo/lareport/LA-UR-11-5478* ; *EP2011-0227*

PROFESSIONAL AFFILIATION

- *Elected Member* of Sigma Xi, The scientific Research Society
- *Member* American Geophysical Union (AGU)

ACADEMIC DISTINCTIONS AND AWARDS

- **GEOSYNTEC, INC. Best Student Research Paper** Award National Competition 2010 from Geosyntec Consultants Inc. USA,
- **Hargis award** by Hargis Associates for best student poster presentation at University of Arizona 20th Annual *El Dia Del Agua* showcase 2010.
- **John and Margaret Hershberger Doctoral fellow** in Subsurface Hydrology-Hydrogeology from Hydrology and Water Resources Department of University of Arizona (January 2009),
- **Eugene S Simpson fellow** in groundwater from Hydrology and Water Resources Department of University of Arizona (January 2008),
- **Graduate College Fee Scholarship** Award from Hydrology and Water Resources department of University of Arizona (Fall 2007- Spring 2008),
- **Graduate College Fellowship** from University of Arizona (Fall 2006- Spring 2007),
- **Deutscher Akademischer Austausch Dienst (DAAD)fellowship** from the German government for pursuing my Masters thesis work at the Technical University Rstheinisch Westf'alsche Technische Hochschule (RWTH) Aachen, Germany for one academic year (May2002 February 2003),
- Graduate Research Assistantship during Masters at Indian Institute of Technology Kanpur, India (August 2001-May 2003),
- Secured percentile of **99.53** in a National level talent search exam named "Graduate Aptitude Test in Engineering" (GATE) conducted by Ministry of Human Resources Development of the Government of India.
- Based upon national talent search examination awarded **full scholarship** for all boarding, lodging and living expenses during **pre-college education** from Human Resources Development division of Government of India.

PROFESSIONAL SERVICES

- **Excellence in Referring Award**, from the Water Resources Research Journal, the most prestigious journal in Water Resources area.
- **Outstanding Reviewer Award**, from the Advances in Water Resources Journal, a prestigious journal in Water Resources area.

- Member of **Groundwater Technical Committee** American Geophysical Union Fall meeting 2013-current.
- Organized technical sessions at international conference, “Innovative methods in Hydrogeology”, American Geophysical Union Fall meeting, 2013.
- Organized technical session at international conference, “Modern Approaches in Hydrogeology”, American Geophysical Union Fall meeting, 2012.
- Organized technical session at international conference, “Recent Advances in Hydrogeology : Innovative solution to single and multiphase issues”, American Geophysical Union Fall Meeting 2011.
- Reviewer (Journals) - *Water Resources Research, Journal of Hydrology, Hydrological Processes, Journal of Contaminant Hydrology, Groundwater and Advances in Water Resources.*
- Student Judge - *American Geophysical Union Fall Meeting* 2011 and 2012.
- Graduate Student Council (GSC) Representative from Hydrology and Water Resources Department, College of Science, University of Arizona (2009-2010)
- Member Department Post-Graduate Committee (DPGC), a forum of postgraduate student and faculty to look after and improve academic as well as non-academic activities of student at Indian Institute of Technology Kanpur India. (2001-2002)

UNIVERSITY, COLLEGE & DEPARTMENT SERVICES

- **Member** University Curriculum Committee, Since August 2016 – current.
- **Member** University Committee on diversity and inclusion, February 2016 – current.
- **Member** University Committee on Information Technology, Since August 2015 – current.
- **Member** University Committee on Student Academic Life, Since February 2013 – current.
- **Member** New Faculty Selection Committee, Civil & Environmental Engineering , Spring 2015.
- **Member** ABET Committee, Civil & Environmental Engineering , Spring 2014 – current.
- **Chair** Curriculum Committee, Civil & Environmental Engineering , Fall 2016 – current.
- **Chair** Scheduling Committee, Civil & Environmental Engineering , Fall 2016 – current.
- **Chair** Computer Systems & Website Committee, Civil & Environmental Engineering , Fall 2014 – current.
- **Undergraduate Advisor**, Civil & Environmental Engineering , Fall 2013 – current.
- **Chair** Library Committee, Civil & Environmental Engineering , Fall 2013 – Spring 2014.



Engineering Hydrology

Short Course

Dec 18 - Dec 24, 2017



Dr. Mishra received his PhD from the University of Arizona. Prior to joining California State University Fullerton, he worked at Los Alamos National Laboratory. Dr. Mishra has taught wide range of graduate and undergraduate courses and is recipient of exceptional teaching effectiveness award from California State University Fullerton. Dr. Mishra actively engages undergraduate and graduate students in his research and promotes engineering education through hands-on activities.

The hydrologic cycle is so simple that even kindergartners can understand yet so complex that scientist around the globe are working hard, yet can not fully understand it. Through this course, we investigate various hydrologic processes and their engineering applications in the areas of water resources and stormwater management.

Topics covered in this course include:

- Precipitation distribution and measurements
- Infiltration and soil processes
- Evaporation and evapotranspiration
- Runoff and stream processes
- Hydrograph analysis
- Flood frequency analysis
- Flood routing and reservoir management

Dr. Phoolendra Mishra, Ph.D
Assistant Professor
pkmishra@fullerton.edu
Ph: (657)-278-8808

For more information Contact:
Dr. S. Sivaperumal,
Director International Relations
Veltech Dr.RR & Dr.SR University
Email : dint@veltechuniv.edu.in



Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Est. as of UGC Act, 1956)

Department of Mechanical Engineering

Ref : VTU/DoME/ STC/ 2017 – 18

21.12.2017

Submitted for Approval

Sir,

Professor Dr. Phoolendra Mishra, Assistant Professor, California State University, U.S.A will be visiting our University from December 26th to December 30th 2017, to conduct a short term course (20 hours) on "Engineering Hydraulics" for the benefit of both Second and Third Year Mechanical Engineering Students. He will deliver lectures from 1:30 pm to 5:30 pm for 5 days at Alfred Hive.

Approval is requested for

- 1) To Conduct the ~~short term~~ course on "Engineering Hydraulics" for the ~~II~~ ^{2015-16, 16-17} Year and ~~III~~ Year Mechanical as above
- 2) To accept the above course under the specialized course category as per the VTU R15
- 3) To award one credit to the above students under the specialized course category under VTU R15 section 7.2.8.3

Submitted for approval please

S. Karthik

S. Karthik

(Course coordinator)

Dr. A. V. Ravichandran

HOD Mechanical

DA - AR

Prof. Dr. techn. Koteswara Rao Anne
Director Academics

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Est. as of UGC Act, 1956)



Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University) Est. up to UGC Act, 1956

Our Ref. No: 2017/VF 23 & 24

Your Ref. No:

Submitted for the Approval:

Name of the Professor: Prof. Phoolendra Kumar Mishra

University & Country : California State University, Fullerton, USA

Course Titles : Engineering Hydraulics & Engineering Hydrology

Department : Mechanical and Civil Engineering

Students : 2016-2020, 52 Students ✓
2015-2019, 7 Students ✓

Training Program date: 26th to 30th December, 2017 (FN & AN)

Sl.No	Description	Amount in INR
1	Course Honorarium (Rs.3000 * 40Hrs) <i>20 - Mechanical</i> (Net Amount & Tax Free) <i>20 - Civil</i>	120000
2	Flight Ticket (306.80USD)(1 USD =85.1903 as on 14 th Nov,2017) (To be reimbursed , Bill Enclosed)	20000
	Total	140000

(Rupees one lakh forty thousand only)

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

Name : Phoolendra Kumar Mishra

Bank name: ICICI Bank

Account No: 635301503170

IFSC Code : ICIC0006353

Thank You

S. Sivaperumal
27/12/17

Dr. S. Sivaperumal
Director International Relations

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University) Est. up to UGC Act, 1956



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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 & Construction
Department of Mechanical Engineering

Specialized one credit course on
“Smart Manufacturing Technologies”
(1157ME925)

by

Prof. Dr. James Sagil

California State University, Fullerton, USA



Held on

Date: August 6 to 10, 2018

SAGIL JAMES, ASSISTANT PROFESSOR
Mechanical Engineering Department,
California State University Fullerton
Email: sagiljames@fullerton.edu Phone: (657)-278-3337

PROFESSIONAL EXPERIENCE

California State University Fullerton, Fullerton, CA

08/2015-Present

Assistant Professor, Mechanical Engineering Department

- Performing research, teaching, and service activities in the Mechanical Engineering program, focused on advanced manufacturing. Mentoring graduate and undergraduate students on research

University of Cincinnati, Cincinnati, OH

2010-15

Graduate Research Assistant, Micro and Nano Manufacturing Laboratory

- Performed fundamental research activities in the area of nanomanufacturing, additive manufacturing, molecular level simulation studies and innovative manufacturing solutions
- Writing Research Grant Proposals – Assisted research advisor in writing several federal and industrial proposal grant activities.
- Assisted in writing successful research proposal which received NSF grant for study on electrochemical based non-traditional additive manufacturing process

University of Cincinnati, Cincinnati, OH

2010-13

Research Assistant, Advanced Material Characterization Center, Cincinnati

- Provided assistance for using several characterization techniques including - SEM, AFM, XRD, to examine several structural and physical properties

University of Cincinnati, Cincinnati, OH

Research Assistant, Computer-Aided Manufacturing Lab, University of Cincinnati

2007-09

- Worked on providing CAD/Design for Manufacturing (DFM) based Low-cost Manufacturing Solutions for Procter and Gamble (P&G) Cincinnati
- Worked as engineering consultant to a biotechnology company (Alltec) based in Kentucky - Tasks included generation of automation strategies and technologies, contact with vendors, integrators for concept testing and validation

Larsen and Toubro Limited, Mumbai, India

2005-07

Product Development Engineer

- Worked in Molded Case Circuit Breaker manufacturing (MCCB) department
- Involved in product design, testing and development of two new circuit breaker accessories
- Responsible for identifying shortcomings and trouble-shooting problems on high volume manufacturing line

EDUCATION

- Ph.D. Mechanical Engineering**, University of Cincinnati, Cincinnati, Ohio 2015
- Dissertation: Study of Vibration Assisted Nano Impact-Machining by Loose Abrasives (VANILA)
- M.S. in Mechanical Engineering**, University of Cincinnati, Cincinnati, Ohio 2010
- Thesis: Computer-Aided Design (CAD) and Design for Manufacturing (DFM) based Module for providing design recommendations for Plastic Injection Molding Part Manufacturing
- B.S in Mechanical Engineering**, National Institute of Technology Calicut, India 2005

PUBLICATIONS

Peer-Reviewed Journal Publications

- 1 James, Sagil. and Mahajan, A., “*Analytical Modeling and Experimental Study of Machining of Smart Materials using Submerged Abrasive Waterjet Micromachining Process*”, Journal of Manufacturing Processes, (Under Review – 2018)
- 2 Parmar, M., and James, Sagil. “*Experimental and Modeling Study of Liquid-Assisted—Laser Beam Micromachining of Smart Ceramic Materials*”, J. Manuf. Mater. Process. 2018, 2(2), 28; <https://doi.org/10.3390/jmmp2020028>
- 3 James, Sagil. and Joshi, A., “*Molecular Dynamics Simulation Study of Cold Spray Process*”, Journal of Manufacturing Processes, May 2018
- 4 Bhavsar, S., and James, Sagil., “*A Thermo-Mechanical Finite Element Analysis of Ultrasonic Powder Consolidation Process*”, Journal of Additive Manufacturing, 2018
- 5 James, Sagil. and Sonate, A., 2017. Experimental study on micromachining of CFRP/Ti stacks using micro ultrasonic machining process. The International Journal of Advanced Manufacturing Technology, 2017 pp.1-9.
- 6 Mistry, V., and James, Sagil., “*Finite Element Analysis and Simulation of Liquid-Assisted Laser Beam Machining Process*”, The International Journal of Advanced Manufacturing Technology, Springer London, 07 September 2017
- 7 James, Sagil. and Sundaram, M.M, “*A Molecular Dynamics Simulation Study of Material Removal Mechanisms in Vibration Assisted Nano Impact-machining by Loose Abrasives*”, Journal of Manufacturing Science and Engineering, 2017
- 8 James, Sagil. and Sundaram, M.M., “*A Study on the Vibration Induced Transport of Nano Abrasives in Liquid Medium*”, Powder technology, 2014
- 9 James, Sagil. and Sundaram, M.M., “*Modeling of Tool Wear in Vibration Assisted Nano Impact-machining by Loose Abrasives*”, International Journal of Manufacturing Engineering, vol. 2014, Article ID 291564, 8 pages, 2014, doi:10.1155/2014/291564
- 10 James, Sagil. and Sundaram, M.M., “*Molecular Dynamics Simulation Study of Tool Wear in Vibration Assisted Nano Impact-machining by Loose Abrasives*”, Journal of Micro and Nano-Manufacturing, 2014
- 11 James, Sagil. and Sundaram, M.M., “*Modeling of Material Removal Rate in Vibration Assisted Nano Impact-machining by Loose Abrasives*”, Journal of Manufacturing Science and Engineering, International Journal of Manufacturing Engineering, 2014, doi:10.1115/1.4028199
- 12 James, Sagil., Blake L. and Sundaram, M.M., “*Modeling and Experimental Verification of Nano Positioning System for Nanomanufacturing*” International Journal of Manufacturing, Materials and Mechanical Engineering (IJMMME), 2013, Volume 3, Issue 4, Pages 1-13

- 13 James, Sagil. and Sundaram, M.M., “*A Molecular Dynamics Study of the Effect of Impact Velocity, Particle Size and Angle of Impact of Abrasive Grain in the Vibration Assisted Nano Impact- machining by Loose Abrasives*”, Wear, 2013, Volume 303, Issue 1, Pages 510-518
- 14 James, Sagil. and Sundaram, M.M., “*A Feasibility Study of Vibration Assisted Nano Impact- machining by Loose Abrasives using Atomic Force Microscope*”, Journal of Manufacturing Science and Engineering, December 2012 - Volume 134, Issue 6, Pages 061014 (1-11)

Conference Proceedings

- 1 Joshi, A., and James, Sagil., “*Molecular Dynamics Simulation Study on Effect of Process Parameters on Coatings during Cold Spray Process*”, in 46th North American Manufacturing Research Conference 2018, NAMRC 2018. Society of Manufacturing Engineers, at Texas A&M, Texas, 2018 (Accepted)
- 2 James, Sagil. and Sundaram, M.M., “*Effects of water molecules on material removal behavior in Vibration Assisted Nano Impact-machining by Loose Abrasives - A molecular dynamics simulation study*”, in 46th North American Manufacturing Research Conference 2018, NAMRC 2018. Society of Manufacturing Engineers, at Texas A&M, Texas, 2018 (Accepted)
- 3 James, Sagil. and Bhavsar, S., “*Finite Element Analysis and Simulation of Ultrasonic Powder Consolidation Process*”, in ASME 2018 International Manufacturing Science and Engineering Conference. American Society of Mechanical Engineers at Texas A&M, Texas, 2018 (Accepted)
- 4 James, Sagil. and Rajanna, P., “*Molecular Dynamics Simulation Study of Ultrasonic Powder Consolidation Process*”, in ASME 2018 International Manufacturing Science and Engineering Conference. American Society of Mechanical Engineers at Texas A&M, Texas, 2018 (Accepted)
- 5 James, Sagil., Menon, V.A., and Parmar, M., “*Molecular Dynamics Simulation Study of Liquid-Assisted Laser Beam Machining Process*”, in ASME 2018 International Manufacturing Science and Engineering Conference. American Society of Mechanical Engineers at Texas A&M, Texas, 2018 (Accepted)
- 6 James, Sagil. and Kakadiya, S., “*Experimental Study of Machining of Shape Memory Alloys Using Dry Micro Electrical Discharge Machining Process*”, in ASME 2018 International Manufacturing Science and Engineering Conference. American Society of Mechanical Engineers at Texas A&M, Texas, 2018 (Accepted)
- 7 James, Sagil., Sonate, A., Dang, C., and De La Luz, L., “*Experimental and Simulation Study Of Ultrasonic Additive Manufacturing of CFRP/Ti Stacks*”, in ASME 2018 International Manufacturing Science and Engineering Conference. American Society of Mechanical Engineers at Texas A&M, Texas, 2018 (Accepted)
- 8 James, Sagil. and Mahajan, A., “*Experimental Study of Machining of Smart Materials Using Submerged Abrasive Waterjet Micromachining Process*”, in ASME 2018 International Manufacturing Science and Engineering Conference. American Society of Mechanical Engineers at Texas A&M, Texas, 2018 (Accepted)
- 9 James, Sagil., Contractor, R., Veyna, C., and Jiang, G., “*Fabrication Of Efficient Electrodes For Dye Sensitized Solar Cells Using Additive Manufacturing*”, in ASME 2018 International Manufacturing Science and Engineering Conference. American Society of Mechanical Engineers at Texas A&M, Texas, 2018 (Accepted)
- 10 Kakadiya, S., and James, Sagil., “*Experimental Study on Micromachining of Ceramic Metal Matrix Composites Using Dry Electrical Discharge Machining Process*”, in SAMPE 2018 Conference and Exhibition. Soc. for the Advancement of Material and Process Engineering, Long Beach, California, May, 2018. (Accepted)
- 11 Panchal, S., Sonate, A., and James, Sagil., “*Finite Element Analysis and Simulation of Micro Ultrasonic Machining of CFRP/Ti Stacks*”, in SAMPE 2018 Conference and Exhibition. Soc. for the Advancement of Material and Process Engineering, Long Beach, California, May, 2018. (Accepted)

- 12 Menon, V., Parmar, M., and James, Sagil., “*Molecular Dynamics Simulation of Droplet-Assisted Laser Micromachining of Ceramic Materials*”, in SAMPE 2018 Conference and Exhibition. Soc. for the Advancement of Material and Process Engineering, Long Beach, California, May, 2018. (Accepted)
- 13 Narkhede, M., Mahahan, A., and James, Sagil., “*Experimental Study on Submerged Abrasive Waterjet Machining Process of Fiber Reinforced Polymer Composites*”, in SAMPE 2018 Conference and Exhibition. Soc. for the Advancement of Material and Process Engineering, Long Beach, California, May, 2018. (Accepted)
- 14 Sonate, A., Vepuri D., and James, Sagil., “*Study of Micro Ultrasonic Machining of CFRP/Ti Stacks*”, 2017 American Society of Mechanical Engineers (ASME) International Mechanical Engineering Congress and Exposition (IMECE), November 2-9, 2017 at Tampa, Florida
- 15 Blake, L., James, Sagil., and Sundaram, M. M., “*Design of a Nano-Positioning System for Nano-manufacturing*” 8th Annual Dayton Engineering Sciences Symposium (DESS) on October 29, 2012 at Wright State University Student Union, Dayton, OH
- 16 Sundaram, M. M., James, Sagil. and Rajurkar, K.P., 2012, “*Vibration Assisted Nano Machining By Loose Abrasives*”, Presented at the CIRP-2012 Collaborative Working Group meeting on Hybrid Processes held at Paris on Wednesday 25th January 2012
- 17 Mathew, R., James, Sagil., and Sundaram, M.M., “*Experimental study of micro tools fabricated by electrochemical machining*” in ASME 2010 International Manufacturing Science and Engineering Conference. 2010. American Society of Mechanical Engineers

Presentations/Posters/Invited Talks

- 1 James, Sagil., “*Intelligent Manufacturing in Academics*”, Invited Talk, held at Global Education Institute (GEI) , College of the Extended University, Cal Poly Pomona on January 23, 2018
- 2 James, Sagil., “*Overview of Intelligent Manufacturing*”, Invited Talk, held at Global Education Institute (GEI) , College of the Extended University, Cal Poly Pomona on January 22, 2018
- 3 James, Sagil., “*Analysis of Automation Ideas and Technology*”, Invited Talk, held at Global Education Institute (GEI) , College of the Extended University, Cal Poly Pomona on January 11, 2018
- 4 James, Sagil., “*Advanced Manufacturing Technology and Philosophy*”, Invited Talk, held at Global Education Institute (GEI) , College of the Extended University, Cal Poly Pomona on January 9, 2018
- 5 Veyna, C., Jiang, G., Contractor, R., and James, Sagil., “*Design and Fabrication of Low-Cost Flexible Solar Cells using 3D Printing Technology*” Poster, 25th Annual Southern California Conferences for Undergraduate Research (SCCUR) 2017, held at Cal Poly Pomona, Riverside on November 18, 2017
- 6 Dunlavy, S., Blanke, C., Chen, Y., Eng, C., Ndungu, J., Ozog, C., and James, Sagil., “*Design and Fabrication of a Micro Abrasive Waterjet Cutting System*” Poster, 25th Annual Southern California Conferences for Undergraduate Research (SCCUR) 2017, held at Cal Poly Pomona, Riverside on November 18, 2017
- 7 Cole, J., Alzofiri, S., Gallardo, V., Pasillas, M., and James, Sagil., “*Design and Fabrication of a Micro Electro Discharge Machining System*” Poster, 25th Annual Southern California Conferences for Undergraduate Research (SCCUR) 2017, held at Cal Poly Pomona, Riverside on November 18, 2017
- 8 Mehrparvar, S., Ahmed, R., Bulan, E.C., Lam, R., Lona, L., Politico, J., Portillo, J., Zahler, C., and James, Sagil., “*Design and Fabrication of Smart Suspension for Battery Operated Vehicles*” Poster, 25th Annual Southern California Conferences for Undergraduate Research (SCCUR) 2017, held at Cal Poly Pomona, Riverside on November 18, 2017

- 9 Anderson, L., Almohaimeed, M.A.S., Martin, J., and James, Sagil., “*Design and Fabrication of a Low-Cost CO2 Laser Beam Micromachining System*” Poster, 25th Annual Southern California Conferences for Undergraduate Research (SCCUR) 2017, held at Cal Poly Pomona, Riverside on November 18, 2017
- 10 Santiago, R.J., Abbas, A., Alkhabbaz, M., Higuera, J., Tran, A., and James, Sagil., “*Study on Fabrication of Smart 3D Printing Technology*” Poster, 25th Annual Southern California Conferences for Undergraduate Research (SCCUR) 2017, held at Cal Poly Pomona, Riverside on November 18, 2017
- 11 James, Sagil., “*Emerging Trends in Advanced Manufacturing*”, Presentation, held at The Center for Academic Support in Engineering and Computer Science (CASECS) ECS Faculty & Student Research Speaker Series , College of Engineering and Computer Science, California State University Fullerton on October 25, 2017
- 12 Cervantes, A., and James, Sagil., “*Study of Industry 4.0 and Its Impact on Lean Transformation in Aerospace Manufacturing*”, Poster, Great Minds in STEM (GMiS) Research Poster Competition at 29th Hispanic Engineer National Achievement Awards Corporation (HENAAC) Conference, Pasadena, CA, October 18-22, 2017
- 13 Cervantes, A., and James, Sagil., “*Industry 4.0: The Fourth Industrial Revolution*”, Presentation, 2017 Society of Manufacturing Engineers (SME) Technology Talk, held at California State University, Fullerton on September 27, 2017
- 14 Contractor, R., Jiang, G., Veyna, C., and James, Sagil., “*Cost-Effective Thin Film Solar Cells Using Additive Manufacturing*”, Presentation, 2017 Society of Manufacturing Engineers (SME) Technology Talk, held at California State University, Fullerton on August 29, 2017
- 15 James, Sagil., “*Automation Techniques in Industrial Manufacturing in U.S.*”, Invited Talk, held at Global Education Institute (GEI) , College of the Extended University, Cal Poly Pomona on September 5, 2017
- 16 James, Sagil., “*Overview of Cutting-edge Manufacturing Techniques in U.S.*”, Invited Talk, held at Global Education Institute (GEI) , College of the Extended University, Cal Poly Pomona on September 5, 2017
- 17 Parmar, M., and James, Sagil., “*Laser Beam Micromachining and its Applications*”, Presentation, Society of Manufacturing Engineers (SME) Chapter 233 Annual Mixer Event held at Romac Industries, Commerce, CA on July 20, 2017
- 18 Joshi, A., and James, Sagil., “*Applications of Cold Spray Process*”, Presentation, Society of Manufacturing Engineers (SME) Chapter 233 Annual Mixer Event held at Romac Industries, Commerce, CA on July 20, 2017
- 19 Sonate, A., and James, Sagil., “*Micro-Ultrasonic Machining and its Applications*”, Presentation, Society of Manufacturing Engineers (SME) Chapter 233 Annual Mixer Event held at Romac Industries, Commerce, CA on July 20, 2017
- 20 James, Sagil. and Parmar, M., “*Study Of Liquid Assisted - Laser Beam Micromachining of Smart Materials*”, Poster, in 12th Manufacturing Science and Engineering Conference (MSEC) 2017 - American Society of Mechanical Engineers (ASME) at University of Southern California, Los Angeles, California, June 4-8, 2017
- 21 James, Sagil. and Joshi, A., “*Molecular Dynamics Simulation Study of Cold Spray Process*”, Poster, in 12th Manufacturing Science and Engineering Conference (MSEC) 2017 - American Society of Mechanical Engineers (ASME) at University of Southern California, Los Angeles, California, June 4-8, 2017
- 22 Contractor, R., Jiang, G., Phelan, P., Aguilar, A., Veyna, C., and James, Sagil., “*Design and Fabrication of Cost-Effective Flexible Thin-Film Solar Cells using Additive Manufacturing*”, Presentation, in 12th Manufacturing Science and Engineering Conference (MSEC) - Student Manufacturing Design

Competition - American Society of Mechanical Engineers (ASME) at University of Southern California, Los Angeles, California, June 4-8, 2017

- 23 Alsharhan, A., Ward, T., Veyna, C., Kean, R., Le, H., and James, Sagil., “*Building a low-cost Atomic Force Microscope*” Poster, in College of Engineering and Computer Science (ECS) Showcase Event 2017 at California State University Fullerton, May 8, 2017
- 24 Patel, S., Jiandani, A. J., Sonate, A., and James, Sagil., “*Study on Micro Electro-chemical Machining of Smart Materials*”, Poster, in College of Engineering and Computer Science (ECS) Showcase Event 2017 at California State University Fullerton, May 8, 2017
- 25 Parmar, M., and James, Sagil., “*Experimental Study of Liquid Assisted - Laser Beam Micromachining of Smart Materials*”, Poster, in College of Engineering and Computer Science (ECS) Showcase Event 2017 at California State University Fullerton, May 8, 2017
- 26 Joshi, A., and James, Sagil., “*Molecular Dynamic Simulation of Cold Spray Process*”, Poster, in College of Engineering and Computer Science (ECS) Showcase Event 2017 at California State University Fullerton, May 8, 2017
- 27 Sonate, A., and James, Sagil., “*Experimental Study on Micro-Ultrasonic Machining of Composites*”, Poster, in College of Engineering and Computer Science (ECS) Showcase Event 2017 at California State University Fullerton, May 8, 2017
- 28 Contractor, R., Jiang, G., Phelan, P., Aguilar, A., Veyna, C., and James, Sagil., “*Design and Fabrication of Cost-Effective Flexible Thin-Film Solar Cells using Additive Manufacturing*”, Poster, in College of Engineering and Computer Science (ECS) Showcase Event 2017 at California State University Fullerton, May 8, 2017
- 29 Parmar, M., and James, Sagil., “*Experimental Study of Liquid Assisted - Laser Beam Micromachining of Smart Materials*”, Presentation, California State University 31st Annual Student Research Competition, held at Cal Poly San Luis Obispo on April 28-29, 2017 (*Frist Prize in Engineering and Computer Sciences – Graduate Category*)
- 30 Alsharhan, A., Ward, T., Veyna, C., Kean, R., Le, H., and James, Sagil., “*Building a low-cost Atomic Force Microscope*” Presentation, California State University 31st Annual Student Research Competition, held at Cal Poly San Luis Obispo on April 28-29, 2017
- 31 Parmar, M., and James, Sagil., “*Experimental Study of Liquid Assisted - Laser Beam Micromachining of Smart Materials*”, Presentation, 2017 American Society of Mechanical Engineers (ASME) Orange County’s Student Presentation Night, held at California State University, Fullerton on April 25, 2017 (*Third Prize*)
- 32 Contractor, R., Jiang, G., Phelan, P., Aguilar, A., Veyna, C., and James, Sagil., “*Design and Fabrication of Cost-Effective Flexible Thin-Film Solar Cells using Additive Manufacturing*”, Presentation, 2017 American Society of Mechanical Engineers (ASME) Orange County’s Student Presentation Night, held at California State University, Fullerton on April 25, 2017 (*Second Prize*)
- 33 Palande, V., Zaheer, A., Alsharhan, A., James, Sagil., and George, K., “*Titan Smartponics*” Poster, 2017 California State University Fullerton Student Creative Activities and Research Day, held at California State University, Fullerton on April 12, 2017
- 34 Kakadiya, S., Alkandari, A., Alsharhan, A., Alkandry, Y., Alsediqi, A., and James, Sagil., “*Experimental Study on Dry Micro Electrical Discharge Machining Process*” Poster, 2017 California State University Fullerton Student Creative Activities and Research Day, held at California State University, Fullerton on April 12, 2017

- 35 Contractor, R., Jiang, G., Phelan, P., Aguilar, A., Veyna, C., and James, Sagil., "*Design and Fabrication of Cost-Effective Flexible Thin-Film Solar Cells using Additive Manufacturing*", Poster, 2017 California State University Fullerton Student Creative Activities and Research Day, held at California State University, Fullerton on April 12, 2017
- 36 Rajanna, P., and James, Sagil., "*Molecular Dynamics Simulation Study on Ultrasonic Powder Consolidation*", Poster, 2017 California State University Fullerton Student Creative Activities and Research Day, held at California State University, Fullerton on April 12, 2017
- 37 Mahajan, A., and James, Sagil., "*Study on Submerged Abrasive Waterjet Micromachining of Smart Materials*", Poster, 2017 California State University Fullerton Student Creative Activities and Research Day, held at California State University, Fullerton on April 12, 2017
- 38 Patel, S., Jiandani, A. J., Sonate, A., and James, Sagil., "*Study on Micro Electro-chemical Machining of Smart Materials*", Poster, 2017 California State University Fullerton Student Creative Activities and Research Day, held at California State University, Fullerton on April 12, 2017
- 39 Kabariya, U. R., and James, Sagil., "*Study on Smart Suspension System for Battery-Operated Automobiles*", Poster, 2017 California State University Fullerton Student Creative Activities and Research Day, held at California State University, Fullerton on April 12, 2017
- 40 Mistry, V., and James, Sagil., "*Simulation of Laser Beam Micromachining Process*", Poster, 2017 California State University Fullerton Student Creative Activities and Research Day, held at California State University, Fullerton on April 12, 2017
- 41 Bhavsar, S., and James, Sagil., "*Feasible study of Ultrasonic Additive Manufacturing Process*", Poster, 2017 California State University Fullerton Student Creative Activities and Research Day, held at California State University, Fullerton on April 12, 2017
- 42 Joshi, A., and James, Sagil., "*Molecular Dynamic Simulation of Cold Spray Process*", Poster, 2017 California State University Fullerton Student Creative Activities and Research Day, held at California State University, Fullerton on April 12, 2017
- 43 Parmar, M., and James, Sagil., "*Experimental Study of Liquid Assisted - Laser Beam Micromachining of Smart Materials*", Poster, 2017 California State University Fullerton Student Creative Activities and Research Day, held at California State University, Fullerton on April 12, 2017
- 44 Alsharhan, A., Ward, T., Veyna, C., Kean, R., Le, H., and James, Sagil., "*Building a low-cost Atomic Force Microscope*" Poster, 2017 California State University Fullerton Student Creative Activities and Research Day, held at California State University, Fullerton on April 12, 2017
- 45 Sonate, A., and James, Sagil., "*Experimental Study on Micro-Ultrasonic Machining of Composites*", Poster, 2017 California State University Fullerton Student Creative Activities and Research Day, held at California State University, Fullerton on April 12, 2017
- 46 Palande V., Zaheer, A., Alsharhan, A., James, Sagil., and George, K., "*Titan Smartponics*" Presentation, 2017 California State University Fullerton Student Research Competition, held at California State University, Fullerton on February 21-23, 2017
- 47 Mistry, V., and James, Sagil., "*Process Simulation of Laser Beam Micromachining*", Presentation, 2017 California State University Fullerton Student Research Competition, held at California State University, Fullerton on February 21-23, 2017
- 48 Bhavsar, S., and James, Sagil., "*Feasibility study of Ultrasonic Additive Manufacturing Process*", Presentation, 2017 California State University Fullerton Student Research Competition, held at California State University, Fullerton on February 21-23, 2017

- 49 Joshi, A., and James, Sagil., “*A Molecular Dynamics Simulation Study on Cold Spray Process*”, Presentation, 2017 California State University Fullerton Student Research Competition, held at California State University, Fullerton on February 21-23, 2017
- 50 Parmar, M., and James, Sagil., “*Experimental Study on Liquid-assisted Laser Beam Micro-Machining of Smart Materials*”, Presentation, 2017 California State University Fullerton Student Research Competition, held at California State University, Fullerton on February 21-23, 2017 (Selected as 2017 CSUF Student Research Competition Finalists)
- 51 Alsharhan, A., Ward, T., Veyna, C., Kean, R., Le, H., and James, Sagil., “*Building a low-cost Atomic Force Microscope*” Presentation, 2017 California State University Fullerton Student Research Competition, held at California State University, Fullerton on February 21-23, 2017 (Selected as 2017 CSUF Student Research Competition Finalists)
- 52 James, Sagil., “*Micromachining of Advanced Ceramics and Composite Materials*”, Invited Talk, Computer Numeric Control Training Program, held at Extended University at California State Polytechnic University, Pomona on November 29, 2016
- 53 Boyd, J., Guzman, E., Mahajan, A., and James, Sagil., “*Experimental Study on Submerged Abrasive Waterjet Micromachining*” Poster, 24th Annual Southern California Conferences for Undergraduate Research (SCCUR) 2016, held at University of California, Riverside on November 12, 2016
- 54 Alkandari, A., Alsharhan, A., Alkandry, Y., Alsediqi, A., and James, Sagil., “*Experimental Study on Dry Micro Electrical Discharge Machining Process*” Poster, 24th Annual Southern California Conferences for Undergraduate Research (SCCUR) 2016, held at University of California, Riverside on November 12, 2016
- 55 Perez, J., Robles, L., Archbold, S., and James, Sagil., “*Micromachining of Smart Materials using Laser Beam Micromachining Process*” Presentation, 24th Annual Southern California Conferences for Undergraduate Research (SCCUR) 2016, held at University of California, Riverside on November 12, 2016
- 56 Alsharhan, A., Ward, T., Veyna, C., Kean, R., Le, H., and James, Sagil., “*Building a low-cost Atomic Force Microscope*” Poster, 24th Annual Southern California Conferences for Undergraduate Research (SCCUR) 2016, held at University of California, Riverside on November 12, 2016
- 57 Sanchez, G., Moyao, M., Dang, J., Garcia, Y., DeJesus, B., Limsakoune, C., James, Sagil., Rasche, M., and Robson, Nina., “*Biomedical 3D Metal Printed Die*” Poster, 24th Annual Southern California Conferences for Undergraduate Research (SCCUR) 2016, held at University of California, Riverside on November 12, 2016
- 58 Amoroso, J., Pedro, J., Costa, V., Sonate, A., and James, Sagil., “*Machining of Composites using Micro Ultrasonic Machining Process*” Poster, Student International Research Institute (SIRI) 2016, held at California State University Fullerton on July 28, 2016
- 59 Castro, F., Carlos, J., Araujo, M., Rossi, M., Teixeira, M., and James, Sagil., “*Micro Abrasive Water Jet Machining of Ceramics*” Poster, Student International Research Institute (SIRI) 2016, held at California State University Fullerton on July 28, 2016
- 60 Sundaram, M. M., James, Sagil. and Rajurkar, K.P , “*Exploratory Study of Nano Ultrasonic Machining Process*” Poster, Workshop on Nano and Micro Manufacturing held at Dearborn, Michigan on May 23, 2013
- 61 James, Sagil. and Sundaram, M. M., “*Study of Vibration Assisted Nano Impact-Machining by Loose Abrasives (VANILA) Process*” 2013 Graduate Poster Forum held at University of Cincinnati on March 1, 2013 (Best poster award)

HONORS/ AWARDS

- Faculty Advisor of Distinction, California State University Fullerton 2018
- Recipient, Graduate Research Assistantship, University of Cincinnati 2007-2014
- Recipient - Research Fellowship, University of Cincinnati 2013
- Best Poster Award, Graduate Poster Forum, University of Cincinnati 2013
- Recipient, University Graduate Scholarship, University of Cincinnati 2007-2012

ASSOCIATIONS/MEMBERSHIPS/PROFESSIONAL AFFILIATIONS

- 1 Programs Chair, – Society of Manufacturing Engineers South LA/Orange County Chapter 233 2018 - Present
- 2 Reviewer – ASME Journal of Micro and Nano Manufacturing 2015 - Present
- 3 Reviewer – Journal of Manufacturing Science and Engineering 2015 - Present
- 4 Reviewer – Vibration Assisted Machining Theory, Modelling and Applications by Dehong Huo and Wanqun Chen, Book Proposal, Wiley Publications Fall'17
- 5 Session Co-Organizer – 12th Manufacturing Science and Engineering Conference (MSEC) - American Society of Mechanical Engineers (ASME) at University of Southern California, Los Angeles, California, June 4-8, 2017 Summer'17
- 6 Reviewer – Conference Proceedings of American Society of Mechanical Engineers (ASME) International Mechanical Engineering Congress and Exposition (IMECE) 2017 2017
- 7 Reviewer – Society of Manufacturing Engineers (SME) Education Foundation Scholarship 2017 Spring'17
- 8 Reviewer – Society of Manufacturing Engineers (SME) – Design for Manufacturability (DFM) Tool and Manufacturing Engineers Handbook Spring'17
- 9 Member – APICS Association for Supply Chain Management 2016-17
- 10 Reviewer – Journal of Manufacturing Processes 2015 - Present
- 11 Member – American Society of Mechanical Engineers 2010 - Present
- 12 Member – Society of Manufacturing Engineers 2009 - Present

Advanced Manufacturing - Emphasis on Smart Manufacturing Technologies

Faculty: Sagil James, Ph.D.
Assistant Professor, Mechanical Engineering
College of Engineering & Computer Science
California State University, Fullerton
800 N State College Blvd., E-409
Fullerton, CA 92831
Phone: +1-657-278-3337
Email: sagiljames@fullerton.edu

Course Duration: 30 hours

Course Outline/ Contents

1. Introduction to Industrial Manufacturing and Production Systems
2. Overview of Advanced Manufacturing Technology, Automation and Control Technologies
3. Group Technology and Cellular Manufacturing, Flexible Manufacturing Systems
4. Just-In-Time and Lean Manufacturing
5. Smart Manufacturing, Intelligent Manufacturing Industry 4.0, Global Trends
6. Transition from Lean Manufacturing to Industry 4.0, Challenges and Future
7. Additive Manufacturing, Applications and Future
8. Advanced Materials and Applications
9. Non-Traditional Manufacturing Processes
10. Micromanufacturing
11. Nanomanufacturing
12. Molecular Dynamics Simulation
13. Smart Factory, Smart Logistics
14. Virtual Reality, Augmented Reality
15. Green Manufacturing, Sustainable Manufacturing

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IR-324



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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)

Office of International Programmes

Visiting Professor Programmes

Details of Professor & Course:

Name of the Professor	Prof. Dr. James Sagil (CV Attached)
University & Country	California State University, Fullerton, USA
Title of the Course	Smart Manufacturing Technologies
Department	Mechanical Engineering
Dates of the Course	August 6-10, 2018
Total No. of Hours	15
No. of Credits	1
Course Content	Attached

Prepared by: 

Coordinator – Directorate of Intl. Relations

Forwarded by: 

Director - Intl. Relations

HoD

Dean

Prof. Dr. A. T. Ravichandran
Dean SoMC

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R&D Institute of Science and Technology
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Director (Academic)

Prof. Dr. techn. Koteswara Rao Anne
Director Academics

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R&D Institute of Science and Technology
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Vice Chancellor


Rm16 11/6/2018

SNo	Stu_Id	Stu_Name	Stu_Degree	Stu_Branch	Stu_Test_SubjectCode	Stu_Test_SubjectName	Stu_Subject_PassFail	Stu_Grade
1	VtU8039	JAKKA SAICHANDRA	B.Tech	MECHANICAL	1157ME925	Smart Manufacturing Technologies	NE	NE
2	VtU8167	KODURI RAJASEKHAR REDDY	B.Tech	MECHANICAL	1157ME925	Smart Manufacturing Technologies	Pass	C
3	VtU8379	BANOTH ROHITH	B.Tech	MECHANICAL	1157ME925	Smart Manufacturing Technologies	Pass	C
4	VtU7635	GUDE VENKATA SAI KRISHNA	B.Tech	MECHANICAL	1157ME925	Smart Manufacturing Technologies	Pass	B
5	VtU7642	B AMARANATH	B.Tech	MECHANICAL	1157ME925	Smart Manufacturing Technologies	NE	NE
6	VtU7710	DANDU PRUDHVI RAJ	B.Tech	MECHANICAL	1157ME925	Smart Manufacturing Technologies	Pass	B
7	VtU7571	GALISETTY PRAVEEN	B.Tech	MECHANICAL	1157ME925	Smart Manufacturing Technologies	Pass	C
8	VtU8438	RUBESHKHANNAA SIVAKUMAR	B.Tech	MECHANICAL	1157ME925	Smart Manufacturing Technologies	Pass	B
9	VTU8525	GADI NAVEEN	B.Tech	MECHANICAL	1157ME925	Smart Manufacturing Technologies	Pass	C
10	VTU8534	L SANTHOSH REDDY	B.Tech	MECHANICAL	1157ME925	Smart Manufacturing Technologies	Pass	C
11	VTU8548	BALLA NAGA VENKATA GOWTHAM	B.Tech	MECHANICAL	1157ME925	Smart Manufacturing Technologies	Pass	B
12	VtU6818	KAMMILA HARSHAVARDHAN	B.Tech	MECHANICAL	1157ME925	Smart Manufacturing Technologies	Pass	B
13	VTU5887	RAMANUJA SREAU S .R.S	B.Tech	MECHANICAL	1157ME925	Smart Manufacturing Technology	Pass	A
14	VTU6457	SANJAY KUMAR YADAV	B.Tech	MECHANICAL	1157ME925	Smart Manufacturing Technology	Pass	B

DINT/2018/488



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Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
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Form.No. 12.1A 0204

AUTHORISATION FOR ONLINE PAYMENT ABOVE ONE LAKH

Date

From Dept/Division:- DINT office

Nature of Expenses G.Code:-

Description:- Honorarium & Travel Expenses

- Prof. Sagil James

Date of Event/Activities:-

Expected Date of Bill Closure:-

Faculty/Staff Responsible:- T. Ramesh Kumar

Mobile No. 8754484372

Form Received Date :

Payment Processed by

Name : sethuram.v.

Signature :

Payment Recommended by
Sign & Seal :

[Signature]

Payment Authorized by
Sign & Seal :

Form No. 12.1A

P.O.No./Bill No./Letter Ref. No. DINT/08-18/015

P.O./Bill/Letter date :

Payee Name : Sagil James

PAN NO. : AGIPPJ3789E

A/C No. : 002001529490

Bank : ICICI BANK

Branch : HIRANANDANI GARDENS,

POWAI, MUMBAI

IFSC Code : ICIC0000020

Amount Payable Rs. 1,40,000/-

(in words) One lakh forty thousand
only.

[Signature]
16/8/2018



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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)

DINT / 08-18 / 015

Our Ref. No: 2018-2019/VF 92	Your Ref. No:
-------------------------------------	----------------------

Submitted for the Approval:

Name of the Professor: Prof. Dr. Sagil James

University & Country : California State University, Fullerton, USA

Course Titles : Smart Manufacturing Technology(15Hrs)
Advanced Manufacturing Technology (15Hrs)

Department : Mechanical Engineering

Students : Course 1: 2015-2019 (14 students)
2016-2020 (2 students)

Course 2: 2015-2019 (12 Students)
2016-2020 (10 Students)

Program date: August 6-10, 2018 (FN & AN)

Sl. No	Description	Amount in INR
1	Course Honorarium (Rs.3000 * 30 Hrs) (Net Amount & Tax Free)	90000
2	Travel expenses (Including partial support of flight ticket from USA & local transport) – Reimbursement (Attached the flight tickets)	50000
	Total	1,40,000

(Rupees one lakh forty thousand only)

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

Name : Sagil James

Bank name: ICICI Bank

Account No: 002001529490

Branch: Hiranandani Gardens, Powai, Mumbai

IFSC Code : ICIC0000020

PAN No : AGPPJ3789E

Entered in Budget Register

Pg. 22, Sl. 34

C. Shreevaran
16/8/18

Thank You,

S. Sivaperumal



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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 Mechanical Engineering

Specialized one credit course on
“Advanced Manufacturing Technologies”
(1157ME926)

by

Prof. Dr. James Sagil

California State University, Fullerton, USA



Held on

Date: August 6 to 10, 2018

SAGIL JAMES, ASSISTANT PROFESSOR
Mechanical Engineering Department,
California State University Fullerton
Email: sagiljames@fullerton.edu Phone: (657)-278-3337

PROFESSIONAL EXPERIENCE

California State University Fullerton, Fullerton, CA

08/2015-Present

Assistant Professor, Mechanical Engineering Department

- Performing research, teaching, and service activities in the Mechanical Engineering program, focused on advanced manufacturing. Mentoring graduate and undergraduate students on research

University of Cincinnati, Cincinnati, OH

2010-15

Graduate Research Assistant, Micro and Nano Manufacturing Laboratory

- Performed fundamental research activities in the area of nanomanufacturing, additive manufacturing, molecular level simulation studies and innovative manufacturing solutions
- Writing Research Grant Proposals – Assisted research advisor in writing several federal and industrial proposal grant activities.
- Assisted in writing successful research proposal which received NSF grant for study on electrochemical based non-traditional additive manufacturing process

University of Cincinnati, Cincinnati, OH

2010-13

Research Assistant, Advanced Material Characterization Center, Cincinnati

- Provided assistance for using several characterization techniques including - SEM, AFM, XRD, to examine several structural and physical properties

University of Cincinnati, Cincinnati, OH

Research Assistant, Computer-Aided Manufacturing Lab, University of Cincinnati

2007-09

- Worked on providing CAD/Design for Manufacturing (DFM) based Low-cost Manufacturing Solutions for Procter and Gamble (P&G) Cincinnati
- Worked as engineering consultant to a biotechnology company (Alltec) based in Kentucky - Tasks included generation of automation strategies and technologies, contact with vendors, integrators for concept testing and validation

Larsen and Toubro Limited, Mumbai, India

2005-07

Product Development Engineer

- Worked in Molded Case Circuit Breaker manufacturing (MCCB) department
- Involved in product design, testing and development of two new circuit breaker accessories
- Responsible for identifying shortcomings and trouble-shooting problems on high volume manufacturing line

EDUCATION

- Ph.D. Mechanical Engineering**, University of Cincinnati, Cincinnati, Ohio 2015
- Dissertation: Study of Vibration Assisted Nano Impact-Machining by Loose Abrasives (VANILA)
- M.S. in Mechanical Engineering**, University of Cincinnati, Cincinnati, Ohio 2010
- Thesis: Computer-Aided Design (CAD) and Design for Manufacturing (DFM) based Module for providing design recommendations for Plastic Injection Molding Part Manufacturing
- B.S in Mechanical Engineering**, National Institute of Technology Calicut, India 2005

PUBLICATIONS

Peer-Reviewed Journal Publications

- 1 James, Sagil. and Mahajan, A., “*Analytical Modeling and Experimental Study of Machining of Smart Materials using Submerged Abrasive Waterjet Micromachining Process*”, Journal of Manufacturing Processes, (Under Review – 2018)
- 2 Parmar, M., and James, Sagil. “*Experimental and Modeling Study of Liquid-Assisted—Laser Beam Micromachining of Smart Ceramic Materials*”, J. Manuf. Mater. Process. 2018, 2(2), 28; <https://doi.org/10.3390/jmmp2020028>
- 3 James, Sagil. and Joshi, A., “*Molecular Dynamics Simulation Study of Cold Spray Process*”, Journal of Manufacturing Processes, May 2018
- 4 Bhavsar, S., and James, Sagil., “*A Thermo-Mechanical Finite Element Analysis of Ultrasonic Powder Consolidation Process*”, Journal of Additive Manufacturing, 2018
- 5 James, Sagil. and Sonate, A., 2017. Experimental study on micromachining of CFRP/Ti stacks using micro ultrasonic machining process. The International Journal of Advanced Manufacturing Technology, 2017 pp.1-9.
- 6 Mistry, V., and James, Sagil., “*Finite Element Analysis and Simulation of Liquid-Assisted Laser Beam Machining Process*”, The International Journal of Advanced Manufacturing Technology, Springer London, 07 September 2017
- 7 James, Sagil. and Sundaram, M.M, “*A Molecular Dynamics Simulation Study of Material Removal Mechanisms in Vibration Assisted Nano Impact-machining by Loose Abrasives*”, Journal of Manufacturing Science and Engineering, 2017
- 8 James, Sagil. and Sundaram, M.M., “*A Study on the Vibration Induced Transport of Nano Abrasives in Liquid Medium*”, Powder technology, 2014
- 9 James, Sagil. and Sundaram, M.M., “*Modeling of Tool Wear in Vibration Assisted Nano Impact-machining by Loose Abrasives*”, International Journal of Manufacturing Engineering, vol. 2014, Article ID 291564, 8 pages, 2014, doi:10.1155/2014/291564
- 10 James, Sagil. and Sundaram, M.M., “*Molecular Dynamics Simulation Study of Tool Wear in Vibration Assisted Nano Impact-machining by Loose Abrasives*”, Journal of Micro and Nano-Manufacturing, 2014
- 11 James, Sagil. and Sundaram, M.M., “*Modeling of Material Removal Rate in Vibration Assisted Nano Impact-machining by Loose Abrasives*”, Journal of Manufacturing Science and Engineering, International Journal of Manufacturing Engineering, 2014, doi:10.1115/1.4028199
- 12 James, Sagil., Blake L. and Sundaram, M.M., “*Modeling and Experimental Verification of Nano Positioning System for Nanomanufacturing*” International Journal of Manufacturing, Materials and Mechanical Engineering (IJMMME), 2013, Volume 3, Issue 4, Pages 1-13

- 13 James, Sagil. and Sundaram, M.M., “*A Molecular Dynamics Study of the Effect of Impact Velocity, Particle Size and Angle of Impact of Abrasive Grain in the Vibration Assisted Nano Impact- machining by Loose Abrasives*”, Wear, 2013, Volume 303, Issue 1, Pages 510-518
- 14 James, Sagil. and Sundaram, M.M., “*A Feasibility Study of Vibration Assisted Nano Impact- machining by Loose Abrasives using Atomic Force Microscope*”, Journal of Manufacturing Science and Engineering, December 2012 - Volume 134, Issue 6, Pages 061014 (1-11)

Conference Proceedings

- 1 Joshi, A., and James, Sagil., “*Molecular Dynamics Simulation Study on Effect of Process Parameters on Coatings during Cold Spray Process*”, in 46th North American Manufacturing Research Conference 2018, NAMRC 2018. Society of Manufacturing Engineers, at Texas A&M, Texas, 2018 (Accepted)
- 2 James, Sagil. and Sundaram, M.M., “*Effects of water molecules on material removal behavior in Vibration Assisted Nano Impact-machining by Loose Abrasives - A molecular dynamics simulation study*”, in 46th North American Manufacturing Research Conference 2018, NAMRC 2018. Society of Manufacturing Engineers, at Texas A&M, Texas, 2018 (Accepted)
- 3 James, Sagil. and Bhavsar, S., “*Finite Element Analysis and Simulation of Ultrasonic Powder Consolidation Process*”, in ASME 2018 International Manufacturing Science and Engineering Conference. American Society of Mechanical Engineers at Texas A&M, Texas, 2018 (Accepted)
- 4 James, Sagil. and Rajanna, P., “*Molecular Dynamics Simulation Study of Ultrasonic Powder Consolidation Process*”, in ASME 2018 International Manufacturing Science and Engineering Conference. American Society of Mechanical Engineers at Texas A&M, Texas, 2018 (Accepted)
- 5 James, Sagil., Menon, V.A., and Parmar, M., “*Molecular Dynamics Simulation Study of Liquid-Assisted Laser Beam Machining Process*”, in ASME 2018 International Manufacturing Science and Engineering Conference. American Society of Mechanical Engineers at Texas A&M, Texas, 2018 (Accepted)
- 6 James, Sagil. and Kakadiya, S., “*Experimental Study of Machining of Shape Memory Alloys Using Dry Micro Electrical Discharge Machining Process*”, in ASME 2018 International Manufacturing Science and Engineering Conference. American Society of Mechanical Engineers at Texas A&M, Texas, 2018 (Accepted)
- 7 James, Sagil., Sonate, A., Dang, C., and De La Luz, L., “*Experimental and Simulation Study Of Ultrasonic Additive Manufacturing of CFRP/Ti Stacks*”, in ASME 2018 International Manufacturing Science and Engineering Conference. American Society of Mechanical Engineers at Texas A&M, Texas, 2018 (Accepted)
- 8 James, Sagil. and Mahajan, A., “*Experimental Study of Machining of Smart Materials Using Submerged Abrasive Waterjet Micromachining Process*”, in ASME 2018 International Manufacturing Science and Engineering Conference. American Society of Mechanical Engineers at Texas A&M, Texas, 2018 (Accepted)
- 9 James, Sagil., Contractor, R., Veyna, C., and Jiang, G., “*Fabrication Of Efficient Electrodes For Dye Sensitized Solar Cells Using Additive Manufacturing*”, in ASME 2018 International Manufacturing Science and Engineering Conference. American Society of Mechanical Engineers at Texas A&M, Texas, 2018 (Accepted)
- 10 Kakadiya, S., and James, Sagil., “*Experimental Study on Micromachining of Ceramic Metal Matrix Composites Using Dry Electrical Discharge Machining Process*”, in SAMPE 2018 Conference and Exhibition. Soc. for the Advancement of Material and Process Engineering, Long Beach, California, May, 2018. (Accepted)
- 11 Panchal, S., Sonate, A., and James, Sagil., “*Finite Element Analysis and Simulation of Micro Ultrasonic Machining of CFRP/Ti Stacks*”, in SAMPE 2018 Conference and Exhibition. Soc. for the Advancement of Material and Process Engineering, Long Beach, California, May, 2018. (Accepted)

- 12 Menon, V., Parmar, M., and James, Sagil., “*Molecular Dynamics Simulation of Droplet-Assisted Laser Micromachining of Ceramic Materials*”, in SAMPE 2018 Conference and Exhibition. Soc. for the Advancement of Material and Process Engineering, Long Beach, California, May, 2018. (Accepted)
- 13 Narkhede, M., Mahahan, A., and James, Sagil., “*Experimental Study on Submerged Abrasive Waterjet Machining Process of Fiber Reinforced Polymer Composites*”, in SAMPE 2018 Conference and Exhibition. Soc. for the Advancement of Material and Process Engineering, Long Beach, California, May, 2018. (Accepted)
- 14 Sonate, A., Vepuri D., and James, Sagil., “*Study of Micro Ultrasonic Machining of CFRP/Ti Stacks*”, 2017 American Society of Mechanical Engineers (ASME) International Mechanical Engineering Congress and Exposition (IMECE), November 2-9, 2017 at Tampa, Florida
- 15 Blake, L., James, Sagil., and Sundaram, M. M., “*Design of a Nano-Positioning System for Nano-manufacturing*” 8th Annual Dayton Engineering Sciences Symposium (DESS) on October 29, 2012 at Wright State University Student Union, Dayton, OH
- 16 Sundaram, M. M., James, Sagil. and Rajurkar, K.P., 2012, “*Vibration Assisted Nano Machining By Loose Abrasives*”, Presented at the CIRP-2012 Collaborative Working Group meeting on Hybrid Processes held at Paris on Wednesday 25th January 2012
- 17 Mathew, R., James, Sagil., and Sundaram, M.M., “*Experimental study of micro tools fabricated by electrochemical machining*” in ASME 2010 International Manufacturing Science and Engineering Conference. 2010. American Society of Mechanical Engineers

Presentations/Posters/Invited Talks

- 1 James, Sagil., “*Intelligent Manufacturing in Academics*”, Invited Talk, held at Global Education Institute (GEI) , College of the Extended University, Cal Poly Pomona on January 23, 2018
- 2 James, Sagil., “*Overview of Intelligent Manufacturing*”, Invited Talk, held at Global Education Institute (GEI) , College of the Extended University, Cal Poly Pomona on January 22, 2018
- 3 James, Sagil., “*Analysis of Automation Ideas and Technology*”, Invited Talk, held at Global Education Institute (GEI) , College of the Extended University, Cal Poly Pomona on January 11, 2018
- 4 James, Sagil., “*Advanced Manufacturing Technology and Philosophy*”, Invited Talk, held at Global Education Institute (GEI) , College of the Extended University, Cal Poly Pomona on January 9, 2018
- 5 Veyna, C., Jiang, G., Contractor, R., and James, Sagil., “*Design and Fabrication of Low-Cost Flexible Solar Cells using 3D Printing Technology*” Poster, 25th Annual Southern California Conferences for Undergraduate Research (SCCUR) 2017, held at Cal Poly Pomona, Riverside on November 18, 2017
- 6 Dunlavy, S., Blanke, C., Chen, Y., Eng, C., Ndungu, J., Ozog, C., and James, Sagil., “*Design and Fabrication of a Micro Abrasive Waterjet Cutting System*” Poster, 25th Annual Southern California Conferences for Undergraduate Research (SCCUR) 2017, held at Cal Poly Pomona, Riverside on November 18, 2017
- 7 Cole, J., Alzofiri, S., Gallardo, V., Pasillas, M., and James, Sagil., “*Design and Fabrication of a Micro Electro Discharge Machining System*” Poster, 25th Annual Southern California Conferences for Undergraduate Research (SCCUR) 2017, held at Cal Poly Pomona, Riverside on November 18, 2017
- 8 Mehrparvar, S., Ahmed, R., Bulan, E.C., Lam, R., Lona, L., Politico, J., Portillo, J., Zahler, C., and James, Sagil., “*Design and Fabrication of Smart Suspension for Battery Operated Vehicles*” Poster, 25th Annual Southern California Conferences for Undergraduate Research (SCCUR) 2017, held at Cal Poly Pomona, Riverside on November 18, 2017

- 9 Anderson, L., Almohaimeed, M.A.S., Martin, J., and James, Sagil., “*Design and Fabrication of a Low-Cost CO2 Laser Beam Micromachining System*” Poster, 25th Annual Southern California Conferences for Undergraduate Research (SCCUR) 2017, held at Cal Poly Pomona, Riverside on November 18, 2017
- 10 Santiago, R.J., Abbas, A., Alkhabbaz, M., Higuera, J., Tran, A., and James, Sagil., “*Study on Fabrication of Smart 3D Printing Technology*” Poster, 25th Annual Southern California Conferences for Undergraduate Research (SCCUR) 2017, held at Cal Poly Pomona, Riverside on November 18, 2017
- 11 James, Sagil., “*Emerging Trends in Advanced Manufacturing*”, Presentation, held at The Center for Academic Support in Engineering and Computer Science (CASECS) ECS Faculty & Student Research Speaker Series , College of Engineering and Computer Science, California State University Fullerton on October 25, 2017
- 12 Cervantes, A., and James, Sagil., “*Study of Industry 4.0 and Its Impact on Lean Transformation in Aerospace Manufacturing*”, Poster, Great Minds in STEM (GMiS) Research Poster Competition at 29th Hispanic Engineer National Achievement Awards Corporation (HENAAC) Conference, Pasadena, CA, October 18-22, 2017
- 13 Cervantes, A., and James, Sagil., “*Industry 4.0: The Fourth Industrial Revolution*”, Presentation, 2017 Society of Manufacturing Engineers (SME) Technology Talk, held at California State University, Fullerton on September 27, 2017
- 14 Contractor, R., Jiang, G., Veyna, C., and James, Sagil., “*Cost-Effective Thin Film Solar Cells Using Additive Manufacturing*”, Presentation, 2017 Society of Manufacturing Engineers (SME) Technology Talk, held at California State University, Fullerton on August 29, 2017
- 15 James, Sagil., “*Automation Techniques in Industrial Manufacturing in U.S.*”, Invited Talk, held at Global Education Institute (GEI) , College of the Extended University, Cal Poly Pomona on September 5, 2017
- 16 James, Sagil., “*Overview of Cutting-edge Manufacturing Techniques in U.S.*”, Invited Talk, held at Global Education Institute (GEI) , College of the Extended University, Cal Poly Pomona on September 5, 2017
- 17 Parmar, M., and James, Sagil., “*Laser Beam Micromachining and its Applications*”, Presentation, Society of Manufacturing Engineers (SME) Chapter 233 Annual Mixer Event held at Romac Industries, Commerce, CA on July 20, 2017
- 18 Joshi, A., and James, Sagil., “*Applications of Cold Spray Process*”, Presentation, Society of Manufacturing Engineers (SME) Chapter 233 Annual Mixer Event held at Romac Industries, Commerce, CA on July 20, 2017
- 19 Sonate, A., and James, Sagil., “*Micro-Ultrasonic Machining and its Applications*”, Presentation, Society of Manufacturing Engineers (SME) Chapter 233 Annual Mixer Event held at Romac Industries, Commerce, CA on July 20, 2017
- 20 James, Sagil. and Parmar, M., “*Study Of Liquid Assisted - Laser Beam Micromachining of Smart Materials*”, Poster, in 12th Manufacturing Science and Engineering Conference (MSEC) 2017 - American Society of Mechanical Engineers (ASME) at University of Southern California, Los Angeles, California, June 4-8, 2017
- 21 James, Sagil. and Joshi, A., “*Molecular Dynamics Simulation Study of Cold Spray Process*”, Poster, in 12th Manufacturing Science and Engineering Conference (MSEC) 2017 - American Society of Mechanical Engineers (ASME) at University of Southern California, Los Angeles, California, June 4-8, 2017
- 22 Contractor, R., Jiang, G., Phelan, P., Aguilar, A., Veyna, C., and James, Sagil., “*Design and Fabrication of Cost-Effective Flexible Thin-Film Solar Cells using Additive Manufacturing*”, Presentation, in 12th Manufacturing Science and Engineering Conference (MSEC) - Student Manufacturing Design

Competition - American Society of Mechanical Engineers (ASME) at University of Southern California, Los Angeles, California, June 4-8, 2017

- 23 Alsharhan, A., Ward, T., Veyna, C., Kean, R., Le, H., and James, Sagil., “*Building a low-cost Atomic Force Microscope*” Poster, in College of Engineering and Computer Science (ECS) Showcase Event 2017 at California State University Fullerton, May 8, 2017
- 24 Patel, S., Jiandani, A. J., Sonate, A., and James, Sagil., “*Study on Micro Electro-chemical Machining of Smart Materials*”, Poster, in College of Engineering and Computer Science (ECS) Showcase Event 2017 at California State University Fullerton, May 8, 2017
- 25 Parmar, M., and James, Sagil., “*Experimental Study of Liquid Assisted - Laser Beam Micromachining of Smart Materials*”, Poster, in College of Engineering and Computer Science (ECS) Showcase Event 2017 at California State University Fullerton, May 8, 2017
- 26 Joshi, A., and James, Sagil., “*Molecular Dynamic Simulation of Cold Spray Process*”, Poster, in College of Engineering and Computer Science (ECS) Showcase Event 2017 at California State University Fullerton, May 8, 2017
- 27 Sonate, A., and James, Sagil., “*Experimental Study on Micro-Ultrasonic Machining of Composites*”, Poster, in College of Engineering and Computer Science (ECS) Showcase Event 2017 at California State University Fullerton, May 8, 2017
- 28 Contractor, R., Jiang, G., Phelan, P., Aguilar, A., Veyna, C., and James, Sagil., “*Design and Fabrication of Cost-Effective Flexible Thin-Film Solar Cells using Additive Manufacturing*”, Poster, in College of Engineering and Computer Science (ECS) Showcase Event 2017 at California State University Fullerton, May 8, 2017
- 29 Parmar, M., and James, Sagil., “*Experimental Study of Liquid Assisted - Laser Beam Micromachining of Smart Materials*”, Presentation, California State University 31st Annual Student Research Competition, held at Cal Poly San Luis Obispo on April 28-29, 2017 (*Frist Prize in Engineering and Computer Sciences – Graduate Category*)
- 30 Alsharhan, A., Ward, T., Veyna, C., Kean, R., Le, H., and James, Sagil., “*Building a low-cost Atomic Force Microscope*” Presentation, California State University 31st Annual Student Research Competition, held at Cal Poly San Luis Obispo on April 28-29, 2017
- 31 Parmar, M., and James, Sagil., “*Experimental Study of Liquid Assisted - Laser Beam Micromachining of Smart Materials*”, Presentation, 2017 American Society of Mechanical Engineers (ASME) Orange County’s Student Presentation Night, held at California State University, Fullerton on April 25, 2017 (*Third Prize*)
- 32 Contractor, R., Jiang, G., Phelan, P., Aguilar, A., Veyna, C., and James, Sagil., “*Design and Fabrication of Cost-Effective Flexible Thin-Film Solar Cells using Additive Manufacturing*”, Presentation, 2017 American Society of Mechanical Engineers (ASME) Orange County’s Student Presentation Night, held at California State University, Fullerton on April 25, 2017 (*Second Prize*)
- 33 Palande, V., Zaheer, A., Alsharhan, A., James, Sagil., and George, K., “*Titan Smartponics*” Poster, 2017 California State University Fullerton Student Creative Activities and Research Day, held at California State University, Fullerton on April 12, 2017
- 34 Kakadiya, S., Alkandari, A., Alsharhan, A., Alkandry, Y., Alsediqi, A., and James, Sagil., “*Experimental Study on Dry Micro Electrical Discharge Machining Process*” Poster, 2017 California State University Fullerton Student Creative Activities and Research Day, held at California State University, Fullerton on April 12, 2017

- 35 Contractor, R., Jiang, G., Phelan, P., Aguilar, A., Veyna, C., and James, Sagil., “*Design and Fabrication of Cost-Effective Flexible Thin-Film Solar Cells using Additive Manufacturing*”, Poster, 2017 California State University Fullerton Student Creative Activities and Research Day, held at California State University, Fullerton on April 12, 2017
- 36 Rajanna, P., and James, Sagil., “*Molecular Dynamics Simulation Study on Ultrasonic Powder Consolidation*”, Poster, 2017 California State University Fullerton Student Creative Activities and Research Day, held at California State University, Fullerton on April 12, 2017
- 37 Mahajan, A., and James, Sagil., “*Study on Submerged Abrasive Waterjet Micromachining of Smart Materials*”, Poster, 2017 California State University Fullerton Student Creative Activities and Research Day, held at California State University, Fullerton on April 12, 2017
- 38 Patel, S., Jiandani, A. J., Sonate, A., and James, Sagil., “*Study on Micro Electro-chemical Machining of Smart Materials*”, Poster, 2017 California State University Fullerton Student Creative Activities and Research Day, held at California State University, Fullerton on April 12, 2017
- 39 Kabariya, U. R., and James, Sagil., “*Study on Smart Suspension System for Battery-Operated Automobiles*”, Poster, 2017 California State University Fullerton Student Creative Activities and Research Day, held at California State University, Fullerton on April 12, 2017
- 40 Mistry, V., and James, Sagil., “*Simulation of Laser Beam Micromachining Process*”, Poster, 2017 California State University Fullerton Student Creative Activities and Research Day, held at California State University, Fullerton on April 12, 2017
- 41 Bhavsar, S., and James, Sagil., “*Feasible study of Ultrasonic Additive Manufacturing Process*”, Poster, 2017 California State University Fullerton Student Creative Activities and Research Day, held at California State University, Fullerton on April 12, 2017
- 42 Joshi, A., and James, Sagil., “*Molecular Dynamic Simulation of Cold Spray Process*”, Poster, 2017 California State University Fullerton Student Creative Activities and Research Day, held at California State University, Fullerton on April 12, 2017
- 43 Parmar, M., and James, Sagil., “*Experimental Study of Liquid Assisted - Laser Beam Micromachining of Smart Materials*”, Poster, 2017 California State University Fullerton Student Creative Activities and Research Day, held at California State University, Fullerton on April 12, 2017
- 44 Alsharhan, A., Ward, T., Veyna, C., Kean, R., Le, H., and James, Sagil., “*Building a low-cost Atomic Force Microscope*” Poster, 2017 California State University Fullerton Student Creative Activities and Research Day, held at California State University, Fullerton on April 12, 2017
- 45 Sonate, A., and James, Sagil., “*Experimental Study on Micro-Ultrasonic Machining of Composites*”, Poster, 2017 California State University Fullerton Student Creative Activities and Research Day, held at California State University, Fullerton on April 12, 2017
- 46 Palande V., Zaheer, A., Alsharhan, A., James, Sagil., and George, K., “*Titan Smartponics*” Presentation, 2017 California State University Fullerton Student Research Competition, held at California State University, Fullerton on February 21-23, 2017
- 47 Mistry, V., and James, Sagil., “*Process Simulation of Laser Beam Micromachining*”, Presentation, 2017 California State University Fullerton Student Research Competition, held at California State University, Fullerton on February 21-23, 2017
- 48 Bhavsar, S., and James, Sagil., “*Feasibility study of Ultrasonic Additive Manufacturing Process*”, Presentation, 2017 California State University Fullerton Student Research Competition, held at California State University, Fullerton on February 21-23, 2017

- 49 Joshi, A., and James, Sagil., “*A Molecular Dynamics Simulation Study on Cold Spray Process*”, Presentation, 2017 California State University Fullerton Student Research Competition, held at California State University, Fullerton on February 21-23, 2017
- 50 Parmar, M., and James, Sagil., “*Experimental Study on Liquid-assisted Laser Beam Micro-Machining of Smart Materials*”, Presentation, 2017 California State University Fullerton Student Research Competition, held at California State University, Fullerton on February 21-23, 2017 (Selected as 2017 CSUF Student Research Competition Finalists)
- 51 Alsharhan, A., Ward, T., Veyna, C., Kean, R., Le, H., and James, Sagil., “*Building a low-cost Atomic Force Microscope*” Presentation, 2017 California State University Fullerton Student Research Competition, held at California State University, Fullerton on February 21-23, 2017 (Selected as 2017 CSUF Student Research Competition Finalists)
- 52 James, Sagil., “*Micromachining of Advanced Ceramics and Composite Materials*”, Invited Talk, Computer Numeric Control Training Program, held at Extended University at California State Polytechnic University, Pomona on November 29, 2016
- 53 Boyd, J., Guzman, E., Mahajan, A., and James, Sagil., “*Experimental Study on Submerged Abrasive Waterjet Micromachining*” Poster, 24th Annual Southern California Conferences for Undergraduate Research (SCCUR) 2016, held at University of California, Riverside on November 12, 2016
- 54 Alkandari, A., Alsharhan, A., Alkandry, Y., Alsediqi, A., and James, Sagil., “*Experimental Study on Dry Micro Electrical Discharge Machining Process*” Poster, 24th Annual Southern California Conferences for Undergraduate Research (SCCUR) 2016, held at University of California, Riverside on November 12, 2016
- 55 Perez, J., Robles, L., Archbold, S., and James, Sagil., “*Micromachining of Smart Materials using Laser Beam Micromachining Process*” Presentation, 24th Annual Southern California Conferences for Undergraduate Research (SCCUR) 2016, held at University of California, Riverside on November 12, 2016
- 56 Alsharhan, A., Ward, T., Veyna, C., Kean, R., Le, H., and James, Sagil., “*Building a low-cost Atomic Force Microscope*” Poster, 24th Annual Southern California Conferences for Undergraduate Research (SCCUR) 2016, held at University of California, Riverside on November 12, 2016
- 57 Sanchez, G., Moyao, M., Dang, J., Garcia, Y., DeJesus, B., Limsakoune, C., James, Sagil., Rasche, M., and Robson, Nina., “*Biomedical 3D Metal Printed Die*” Poster, 24th Annual Southern California Conferences for Undergraduate Research (SCCUR) 2016, held at University of California, Riverside on November 12, 2016
- 58 Amoroso, J., Pedro, J., Costa, V., Sonate, A., and James, Sagil., “*Machining of Composites using Micro Ultrasonic Machining Process*” Poster, Student International Research Institute (SIRI) 2016, held at California State University Fullerton on July 28, 2016
- 59 Castro, F., Carlos, J., Araujo, M., Rossi, M., Teixeira, M., and James, Sagil., “*Micro Abrasive Water Jet Machining of Ceramics*” Poster, Student International Research Institute (SIRI) 2016, held at California State University Fullerton on July 28, 2016
- 60 Sundaram, M. M., James, Sagil. and Rajurkar, K.P , “*Exploratory Study of Nano Ultrasonic Machining Process*” Poster, Workshop on Nano and Micro Manufacturing held at Dearborn, Michigan on May 23, 2013
- 61 James, Sagil. and Sundaram, M. M., “*Study of Vibration Assisted Nano Impact-Machining by Loose Abrasives (VANILA) Process*” 2013 Graduate Poster Forum held at University of Cincinnati on March 1, 2013 (Best poster award)

HONORS/ AWARDS

- Faculty Advisor of Distinction, California State University Fullerton 2018
- Recipient, Graduate Research Assistantship, University of Cincinnati 2007-2014
- Recipient - Research Fellowship, University of Cincinnati 2013
- Best Poster Award, Graduate Poster Forum, University of Cincinnati 2013
- Recipient, University Graduate Scholarship, University of Cincinnati 2007-2012

ASSOCIATIONS/MEMBERSHIPS/PROFESSIONAL AFFILIATIONS

- 1 Programs Chair, – Society of Manufacturing Engineers South LA/Orange County Chapter 233 2018 - Present
- 2 Reviewer – ASME Journal of Micro and Nano Manufacturing 2015 - Present
- 3 Reviewer – Journal of Manufacturing Science and Engineering 2015 - Present
- 4 Reviewer – Vibration Assisted Machining Theory, Modelling and Applications by Dehong Huo and Wanqun Chen, Book Proposal, Wiley Publications Fall'17
- 5 Session Co-Organizer – 12th Manufacturing Science and Engineering Conference (MSEC) - American Society of Mechanical Engineers (ASME) at University of Southern California, Los Angeles, California, June 4-8, 2017 Summer'17
- 6 Reviewer – Conference Proceedings of American Society of Mechanical Engineers (ASME) International Mechanical Engineering Congress and Exposition (IMECE) 2017 2017
- 7 Reviewer – Society of Manufacturing Engineers (SME) Education Foundation Scholarship 2017 Spring'17
- 8 Reviewer – Society of Manufacturing Engineers (SME) – Design for Manufacturability (DFM) Tool and Manufacturing Engineers Handbook Spring'17
- 9 Member – APICS Association for Supply Chain Management 2016-17
- 10 Reviewer – Journal of Manufacturing Processes 2015 - Present
- 11 Member – American Society of Mechanical Engineers 2010 - Present
- 12 Member – Society of Manufacturing Engineers 2009 - Present

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Course 1: Advanced Manufacturing Technologies

Course Duration: 15 hours

Course Outline/ Contents

1. Overview of Advanced Manufacturing Technology
 2. Advanced Materials and Applications
 3. Additive Manufacturing, Applications and Future
 4. Non-Traditional Manufacturing Processes
 5. Micromanufacturing
 6. Nanomanufacturing
 7. Molecular Dynamics Simulation
 8. Green Manufacturing, Sustainable Manufacturing
-

Course 2: Smart Manufacturing Technologies

Course Duration: 15 hours

Course Outline/ Contents

1. Introduction to Industrial Manufacturing and Production Systems
 2. Automation and Control Technologies
 3. Group Technology and Cellular Manufacturing, Flexible Manufacturing Systems
 4. Just-In-Time and Lean Manufacturing
 5. Smart Manufacturing, Intelligent Manufacturing, Industry 4.0, Global Trends
 6. Transition from Lean Manufacturing to Industry 4.0, Challenges and Future
 7. Smart Factory, Smart Logistics
 8. Virtual Reality, Augmented Reality
-

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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)

Office of International Programmes

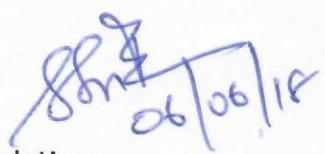
Visiting Professor Programmes

Details of Professor & Course:

Name of the Professor	Prof. Dr. James Sagil (CV Attached)
University & Country	California State University, Fullerton, USA
Title of the Course	Advanced Manufacturing Technologies
Department	Mechanical Engineering
Dates of the Course	August 6-10, 2018
Total No. of Hours	15
No. of Credits	1
Course Content	Attached

Prepared by: 

Coordinator – Directorate of Intl. Relations

Forwarded by: 

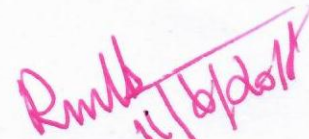
Director - Intl. Relations

 
HOD Dean

Vel Tech
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R&D Institute of Science and Technology
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Director (Academic)
Prof. Dr. Techn. Koteswara Rao Anne
Director Academics

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Vice Chancellor

SNo	Stu_Id	Stu_Name	Stu_Degree	Stu_Branch	Stu_Test_SubjectCode	Stu_Test_SubjectName	Stu_Subject_PassFail	Stu_Grade
1	VTU5895	ARAFATH A	B.Tech	MECHANICAL	1157ME926	Advanced Manufacturing Technologies	Pass	C
2	VtU7814	MANVENDRA SINGH	B.Tech	MECHANICAL	1157ME926	Advanced Manufacturing Technologies	Pass	A
3	VTU8126	R.KARTHIKEYAN	B.Tech	MECHANICAL	1157ME926	Advanced Manufacturing Technologies	NE	NE
4	VTU8136	PRAKASH N	B.Tech	MECHANICAL	1157ME926	Advanced Manufacturing Technologies	Pass	C
5	VTU5924	SHEIK NOWSHAD A	B.Tech	MECHANICAL	1157ME926	Advanced Manufacturing Technologies	Pass	A
6	VTU5943	MAHENDRAN.D	B.Tech	MECHANICAL	1157ME926	Advanced Manufacturing Technologies	Pass	B
7	VTU6215	MD IRFAN ALAM	B.Tech	MECHANICAL	1157ME926	Advanced Manufacturing Technologies	Pass	D
8	VtU7715	ALLAM GOPI RAJU	B.Tech	MECHANICAL	1157ME926	Advanced Manufacturing Technologies	Pass	B
9	VtU7720	S AJAY	B.Tech	MECHANICAL	1157ME926	Advanced Manufacturing Technologies	Pass	A
10	VtU7763	UMAMAHESH K	B.Tech	MECHANICAL	1157ME926	Advanced Manufacturing Technologies	Pass	B
11	VtU6640	GANESH E	B.Tech	MECHANICAL	1157ME926	Advanced Manufacturing Technologies	Pass	D
12	VtU8388	MD MAZHAR ALAM	B.Tech	MECHANICAL	1157ME926	Advanced Manufacturing Technologies	Pass	B
13	VtU7574	R HARISH	B.Tech	MECHANICAL	1157ME926	Advanced Manufacturing Technologies	Pass	A
14	VtU8441	TAMBORE PRAJWAL SHANKAR	B.Tech	MECHANICAL	1157ME926	Advanced Manufacturing Technologies	Pass	A
15	VTU6122	SANTHOSH KUMAR.U	B.Tech	MECHANICAL	1157ME926	Advanced Manufacturing Technologies	Pass	D
16	VTU8140	KARUNAKARAN J	B.Tech	MECHANICAL	1157ME926	Advanced Manufacturing Technologies	Pass	B
17	VTU5877	BOOMINATHAN S	B.Tech	MECHANICAL	1157ME926	Advanced Manufacturing Technologies	Pass	C
18	VtU8037	UKKALAM KASIAH	B.Tech	MECHANICAL	1157ME926	Advanced Manufacturing Technologies	Pass	B
19	VTU5903	K.DINESH	B.Tech	MECHANICAL	1157ME926	Advanced Manufacturing Technologies	Pass	D
20	VTU6461	MRIGENDRA KUMAR SHARMA	B.Tech	MECHANICAL	1157ME926	Advanced Manufacturing Technologies	Pass	D
21	VtU7683	NAVEEN S	B.Tech	MECHANICAL	1157ME926	Advanced Manufacturing Technologies	Pass	C
22	VTU8552	SATISH PRATAP SAXENA	B.Tech	MECHANICAL	1157ME926	Advanced Manufacturing Technologies	Pass	C

DINT/2018/488



Vel Tech

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

Form.No. 12.1A 0204

AUTHORISATION FOR ONLINE PAYMENT ABOVE ONE LAKH

Date

From Dept/Division:- DINT office

Nature of Expenses G.Code:-

Description:- Honorarium & Travel Expenses

- Prof. Sagil James

Date of Event/Activities:-

Expected Date of Bill Closure:-

Faculty/Staff Responsible:- T. Ramesh Kumar

Mobile No. 8754484372

Form Received Date :

Payment Processed by

Name : sethuram.v.

Signature :

Payment Recommended by
Sign & Seal :

[Signature]

Payment Authorized by
Sign & Seal :

Form No. 12.1A

P.O.No./Bill No./Letter Ref. No. DINT/08-18/015

P.O./Bill/Letter date :

Payee Name : Sagil James

PAN NO. : AGIPPJ3789E

A/C No. : 002001529490

Bank : ICICI BANK

Branch : HIRANANDANI GARDENS,

POWAI, MUMBAI

IFSC Code : ICIC0000020

Amount Payable Rs. 1,40,000/-

(in words) One lakh forty thousand
only.

[Signature] 16/8/2018



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

DINT / 08-18 / 015

Our Ref. No: 2018-2019/VF 92	Your Ref. No:
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Submitted for the Approval:

Name of the Professor: Prof. Dr. Sagil James

University & Country : California State University, Fullerton, USA

Course Titles : Smart Manufacturing Technology(15Hrs)
Advanced Manufacturing Technology (15Hrs)

Department : Mechanical Engineering

Students : Course 1: 2015-2019 (14 students)
2016-2020 (2 students)

Course 2: 2015-2019 (12 Students)
2016-2020 (10 Students)

Program date: August 6-10, 2018 (FN & AN)

Sl. No	Description	Amount in INR
1	Course Honorarium (Rs.3000 * 30 Hrs) (Net Amount & Tax Free)	90000
2	Travel expenses (Including partial support of flight ticket from USA & local transport) – Reimbursement (Attached the flight tickets)	50000
	Total	1,40,000

(Rupees one lakh forty thousand only)

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

Name : Sagil James

Bank name: ICICI Bank

Account No: 002001529490

Branch: Hiranandani Gardens, Powai, Mumbai

IFSC Code : ICIC0000020

PAN No : AGPPJ3789E

Entered in Budget Register

Pg. 22, Sl. 34

C. Shreevani
16/8/18

Thank You,

S. Sivaperumal