

National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

Curriculum Vitae



Brief Profile: 1-2 paragraphs (not exceeding 500 words)

I am working as a Teaching faculty for the past 19 years and taught students of B.Tech (Chemical Engg.), M.Tech (PCI) and M.Tech (Energy Engg.). I completed Ph.D in 2008. My research area of interest includes Environmental Engineering, Nanomaterials, Multiphase flow. I have organized TEQIP and Self-sponsored workshops. I have participated in Short term course, workshops, training programmes and Faculty development programmes to ensure continuous learning. 2 scholars completed Ph.D under my guidance. I have guided B.Tech and M.Tech students in Summer/ Winter and mini projects apart from their Academic projects . I have 18 publications in International and National journals. I have presented papers in International and National Conferences and delivered lectures in various workshops and training programmes. I had undergone two month training program on multiphase flow measurements & CFD Analysis at Fluid control research institute, Palghat, Kerala with Young Scientist Fellowship. I have visited Taiwan, Indonesia, Kuwait, Singapore, Malyasia for conferences and Research interaction.

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| 1. Name: | Dr. M. Arivazhagan |
| 2. Designation: | Associate Professor |
| 3. Office Address: | Department of Chemical Engineering,
National Institute of Technology,
Tiruchirappalli – 620 015 |
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| 5. Email (Primary): ariva@nitt.edu | Email (Secondary) :
arivanitt@gmail.com |
| 6. Field(s) of Specialization: | Environmental Engineering, Nano
Technology, Multiphase Flow & Heat
transfer |

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7. Employment Profile

Job Title	Employer	From	To
Associate Professor	NIT, Trichy	30-09-2010	Till Date
Assistant professor	NIT, Trichy	01-07-2009	29-09-2010
Senior Lecturer	NIT, Trichy	15-10-2004	30-06-2009
Lecturer	NIT, Trichy	14-05-1999	14-05-2004
Lecturer	VIT, Vellore	21-05-1997	10-05-1999

8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D.	NIT, Tiruchirapalli (Bharathidasan University)	2008	First Class	Chemical Engineering
M.E. / M.Tech.	Anna University, Chennai.	1997	First Class	Chemical Engineering
B.E. / B.Tech.	Annamalai University	1995	First Class	Chemical Engineering
XII Standard	State Board	1990	First Class	--

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Convener of Hostels	NIT, Trichy	2016	Till date
Associate Dean Faculty Welfare	NIT, Trichy	2012	2015
Hospital Committee member	NIT, Trichy	2010	2012
Warden	G-Mess, NIT, Trichy	2007	2009
NSS Programme Officer	NIT, Trichy	2003	2005
Warden	Ruby Hostel, NIT Trichy	2003	2008
Warden	Sapphire Hostel	2002	2003

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10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
UG Board of Studies Member	Jawaharlal Nehru Technological University, Anantapur	29.09.2016	Till Date
Expert committee member for evaluation of Project Proposals	AICTE	18.01.2013	19.01.2013
Expert committee member for evaluation of Project Proposals	AICTE	14.12.2012	16.12.2012

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
1998	Best Teacher Award (Chemical)	VIT, Vellore
1997	Best Teacher Award (Chemical)	VIT, Vellore

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
2004	Young Scientist Fellowship	TNSCST	May 2005	June 2005

13. Details of Academic Work

(i) Curriculum Development

New experiments were added to the Technical Analysis Lab. Syllabus for Environmental Engineering and Food Technology and Engineering were created.

(ii) Courses taught at Postgraduate and Undergraduate levels

Undergraduate (B.Tech): Environmental Engineering, Thermodynamics Lab, Technical Analysis Lab, Enzyme Engineering, Food Technology and Engineering, Thermodynamics & Fluid Mechanics, Energy and Environmental Engineering, Energy Engineering.

Postgraduate (M.Tech- PCI): Chemical Process System

Postgraduate (M.Tech- Energy Engg.): Fuels And Combustion Technology, Environmental Engineering And Pollution Control

(iii) Projects guided at Postgraduate level

Guided more than 46 Postgraduate level projects for the students of M.Tech Chemical Engineering, Energy Engineering & Process Control and Instrumentation from 1999 to till date.

(iv) Other contribution(s): --

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14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
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15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
Perarasu, V. T.	Heat transfer characteristics of Nanofluids in a Coiled agitated vessel	Supervisor	2013
Charles David, A. R.	Studies on Distillery Effluent Treatment Processes	Supervisor	2016

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
19 March, 2016	All India Technical meet on Advances in Chemical, Pharmaceutical, Biochemical and Environmental Engineering	National	Chairperson	Pondicherry Engineering College	Puducherry
9-14 February, 2016	International Winter School and Hands on Training on Nano-Biotechniques	International	Participant	IIT Roorkee	Roorkee

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21-25 July, 2015	Summer Course on Water And Wastewater Treatment: Recent advances	National	Participant	IIT Roorkee	Roorkee
3-7, January, 2012	SERC school & Sixth National Symposium on Rheology of Complex Fluids	National	Participant	IIT Guwahati	Guwahati
29 November - 10 December, 2011	ISTE Workshop on Heat Transfer	National	Participant	IIT Bombay	Tiruchirappalli
26-28 October, 2011	Conference on Civil, Environmental and Chemical Engineering	International	Paper presenter	World Academy of Science, Engineering and Technology	Indonesia
16-19 March, 2011	Workshop on Refining & Petrochemical s	National	Participant	Petroleum Federation of India, Lovraj Kumar Memorial Trust & Chennai Petroleum Corporation Ltd (CPCL)	Chennai
7-8 March, 2009	National Seminar on Climate Change and Environmental Challenges	National	Paper presenter	Annamalai University	Annamalainag ar

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28 January, 2008	Workshop on Simulating Complex Predictive System and Bayesian Modelling in Image Processing - Applications	National	Participant	Dept. of Mathematics, NIT, Tiruchirappalli	Tiruchirappalli
12-14 December, 2007	National Conference on Frontiers in Chemical Engineering	National	Paper presenter	IIT Guwahati	Guwahati
18-20 November, 2007	Third Conference of the International congress of Chemistry and Environment	International	Paper presenter	Kuwait University - Kuwait Society of Engineers, International Congress of Chemistry and Environment (ICCE)	Kuwait
17-18 September , 2007	Workshop on Computational Fluid Dynamics	National	Participant	Dept. of Mathematics, NIT, Tiruchirappalli	Tiruchirappalli
27-29 August, 2007	Conference on Modeling and Simulation	International	Paper presenter	Coimbatore Institute of Technology	Coimbatore
4-13 July, 2007	Faculty Development Training Programme on ANSYS	National	Participant	ACTIVE	Tiruchirappalli
25-27 April, 2007	DST-SERC School on Advanced Measurement Techniques in Multiphase Systems	National	Participant	University Institute of Chemical Technology, Mumbai	Mumbai

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30-31 March, 2007	National Conference on Simulation, Modeling & Optimization AECOSIM'07	National	Paper Presenter	Arunai Engineering College, Tiruvannaamal ai	Tiruvannaamal ai
10 February, 2007	Conference on Recent trends in Mechanical Engineering	National	Paper presenter	Saranathan College of Engineering, Tiruchirappalli	Tiruchirappalli
5-9 February, 2007	QIP Short Term Training Programme on Recent Advances in Environment, Safety and Energy Management	National	Participant	Dept. of Chemical Engg., NIT Tiruchirappalli	Tiruchirappalli
4 January, 2007	Pre- Conference Tutorial on Nano-, Neuro- , Bio- & Info- Technologies, MEMS, NEMS and Neurosurgery	National	Participant	NIT, Tiruchirappalli	Tiruchirappalli
25 November, 2006	Training programme on Instrumental Methods of Thermal Analysis and Data Interpretation	National	Participant	CEESAT, NIT Tiruchirappalli	Tiruchirappalli
30 September , 2005	Workshop on Building life skills	National	Participant	RGNIYD	Sriperumbudur
22 November - 3 December, 2004	STTP on Emerging Trends in Energy Management and Non- convetional Energy	National	Participant	Dept. of Chemical Engg., NIT Tiruchirappalli	Tiruchirappalli

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16-20 August, 2004	SERC school on Process Optimization, Data Driven Modeling and Advanced Process Control	National	Participant	IIT Bombay	Mumbai
9-20 June, 2003	STTP on Safety and Environment Management emerging trends	National	Participant	Dept. of Chemical Engg., REC, Tiruchirappalli	Tiruchirappalli
13-17 May, 2003	SERC school on Recent Advances in Design and Analysis of Biotechnologi cal Processes	National	Participant	IIT Bombay	Mumbai
11-12 January, 2003	All India Seminar on Challenges in Environmental Protection and Possible Solutions	National	Paper presenter	The Institution of Engineers (I), Amravati	Amravati
11-22 November, 2002	AICTE-ISTE- STTP on Biotechnology - Emerging Trends & Challenges ahead	National	Participant	Annamalai University	Annamalainag ar
21-22 December, 2001	Training Programme on Environmental Management Systems: ISO 14000	National	Participant	TREC-STEP, Tiruchirappalli	Tiruchirappalli
23-25 February, 2001	Conference on Recent Advances in Waste Management	National	Paper Presenter	BHU Varanasi & Indian Association of Environmental Management	Varanasi

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28 December, 1999 - 8 January, 2000	AICTE-ISTE Winter school on Recent Advances in Process Plant Operation	National	Participant	Dr. B. R. Ambedkar Regional Engineering College, Jalandhar	Jalandhar
15-27 November, 1999	AICTE-ISTE- STTP on Novel Separation Techniques	National	Participant	Dept. of Chemical Engg., NIT Tiruchirappalli	Tiruchirappalli
16-19 December, 1998	Chemcon-98	National	Paper Presenter	Andhra University	Visakhapatna m

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/
Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
Workshop on Nanomaterials for Energy & Environment	National	13-18 June, 2016	Co-ordinator	NIT, Trichy
Workshop on Hybrid Wastewater Treatment Technologies	National	12 April, 2014	Co-ordinator	NIT, Trichy
Workshop on Energy & Environment	National	27-28 July, 2013	Co-ordinator	NIT, Trichy
Workshop on Outbound Experiential Learning Camp for Team Building & Effective Group Dynamics	National	11-12 February, 2013	Co-ordinator	NIT, Trichy
Short Term Course on Research avenues in multi-interdisciplinary area of Chemical engineering	National	24-26 September, 2012	Co-ordinator	NIT, Trichy
Workshop on Recent Trends in Wastewater Treatments	National	27 February, 2008	Co-ordinator	NIT, Trichy
Workshop on Multiphase Flow and Process Industries	National	24 March, 2007	Co-ordinator	NIT, Trichy

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Workshop on Recent Advances & Challenges of Biotechnology Process	National	15-16 December, 2006	Co-ordinator	NIT, Trichy
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18. Invited Talks delivered

Topic	Date	Inviting Organization
The role of Nano-coagulation in water and wastewater treatment	28 September, 2016	VIT, Vellore
Chemical and Biological treatment of wastewater	25 August, 2016	NIT, Tiruchirappalli
Application of Adsorption/Coagulation for water/wastewater treatment	2 July, 2016	NIT, Calicut
Coagulation – Nanomaterial applications	14 June, 2016	NIT, Tiruchirappalli
Adsorption with Electro Coagulation	12 April, 2014	NIT, Tiruchirappalli

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Life member	The Indian Society for Technical Education (ISTE)	LM 37098 2003
Member	The Institution of Engineers (India)	M-139320-5 16 May 2009

20. Academic Foreign Visits

Country	Duration of Visit	Programme
Taiwan	One month (December 2007 to January 2008)	Research training in the area of bibliometric study and adsorption in I-Shou University, Kaohsiung, Taiwan.

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21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
Charles David, M.Arivazhagan, J.Hariram, P.Sruthi	Spent wash Decolorization using Granular and Powdered Activated Carbon: Taguchi's Orthogonal Array design and ANN approach	Journal of Applied Science and Engineering Methodologies	2	224-229	2016	
Charles David, M. Arivazhagan, M.N. Balamurali, and Dhivya Shanmugarajan	Decolorization of Distillery Spent Wash Using Biopolymer Synthesized by <i>Pseudomonas aeruginosa</i> Isolated from Tannery Effluent	BioMed Research International		Article ID 195879	2015	1.579
Charles David, M. Arivazhagan, Mohamed Ibrahim	Spent wash decolorization using nano- Al_2O_3 /kaolin photocatalyst: Taguchi and ANN approach	Journal of Saudi Chemical Society	19	537–548	2015	2.523
Charles David, M. Arivazhagan, Fazaludeen Tuvakara	Decolorization of distillery spent wash effluent by electro oxidation (EC and EF) and Fenton processes: A comparative study	Ecotoxicology and Environmental Safety	121	142–148	2015	2.878

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Charles David, Ramachandra Narlawar & M. Arivazhagan	Performance Evaluation of <i>Moringa oleifera</i> Seed Extract (MOSE) in Conjunction with Chemical Coagulants for Treating Distillery Spent Wash	Indian Chemical Engineer		1-12	2015	
Perarasu V.T., M. Arivazhagan and P. Sivashanmugam	CFD Modeling Study of Heat Transfer in a Coiled Agitated Vessel	Progress in Computational Fluid Dynamics	14(3)		2014	0.688
Perarasu V.T., M. Arivazhagan and P. Sivashanmugam	Experimental and CFD Heat Transfer Studies of Al ₂ O ₃ -Water Nanofluid in a Coiled Agitated Vessel Equipped with Propeller	Chinese Journal of Chemical Engineering	21(11)	1232- 1243	2013	1.342
Perarasu V.T., M. Arivazhagan and P. Sivashanmugam	Heat Transfer Characteristics of TiO ₂ /Water Nanofluid in a Coiled Agitated Vessel Provided with Disk Turbine Agitator	Chemical Engineering Communications	200(6)	783-797	2013	1.104
Perarasu V.T., M. Arivazhagan and P. Sivashanmugam	Heat Transfer Characteristics of TiO ₂ /water Nanofluid in a Coiled Agitated Vessel fitted with Propeller	Journal of Hydrodynamics	24(6)	942-950	2012	0.749
Perarasu V.T., M.Arivazhagan and P. Sivashanmugam	Heat transfer studies in coiled agitated vessel with varying heat input	International Journal of Food Engineering	7(4)	Article 3	2011	0.511

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M. Arivazhagan, S. Lokeswaran, and V. T. Perarasu	Heat Transfer Studies and Cost Analysis of a Shell-and-Tube Heat Exchanger using Aluminum Chips as Porous Medium	Heat Transfer Research	42(7)		2011	0.206
M. Arivazhagan, S. Lokeswaran	Entropy Generation Minimization of Shell and Tube Heat Exchanger With Porous Medium	Experimental Techniques			2011	0.545
M. Arivazhagan, Y. Vijayageetha and V.T.Perarasu	Removal of Rhodamine B from synthetic waste water by electro- coagulation with and without adsorbent	World Academy of Science, Engineering and Technology	58	1084- 1091	2011	
Arivazhagan M., Krishna Karthik K., Sundaram S	The Effect on Pressure Drop across Control Valve for Two Phase Flow (Air- Water)	Sensors and Transducers Journal	102(3)	105-114	2009	
Arivazhagan M., Pugalenti, Krishna Karthik K., Rani Hemamalini, Sundaram S	Experimental and Computational Study of Two- phase (Air-Palm Oil) Flow through Pipe and Control Valve in Series	Sensors and Transducers Journal	102(3)	94-104	2009	
Sivashanmugam.P and Arivazhagan.M	Experimental Studies on Parboiling of Paddy by Ohmic- Heating	International Journal of Food Engineering	4(1)	Article 6	2008	0.511
Y.Amaresh Reddy, M. Arivazhagan, P.Sivashanmugam	Decolorization of Crystal Violet Dye and Congo Red Dye using Electrocoagulation	Indian Journal of Environmental Protection	27	516-526	2007	

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G.Mahesh, N.Vivek Narayan, M. Arivazhagan and P.Sivashanmugam	Removal of Chromium (VI) from Industrial waste water by Electrocoagulation	Indian Journal of Environmental Protection	27	303-312	2007	
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(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
Charles David, M. Arivazhagan, Anuska Mishra	Facile Synthesis, Characterization and Performance Evaluation of ZnO/Kaolin Nano- Composite Photocatalyst for Distillery Spent Wash Decolourization	International Conference on Separation Technologies TECHNOSCAP E'16	3	Separation technologies in chemical, biochemical, petroleum and environmental engineering	VIT University, Vellore	2016
Charles David, M. Arivazhagan	Microbial Polyhydroxybutyrate (PHB) for Distillery Spent Wash Decolourization	International Conference on Recent Advances in Biotechnology and Nanobiotechnology	25		Amity University, Gwalior	2016
Charles David, M. Arivazhagan	Degradation of color and organic pollutants from distillery effluent using Electro Fenton and Fenton processes	International conference on Green Technology for Environmental Pollution Prevention and Control			NIT, Tiruchirappalli	2014

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M. Arivazhagan, Vijayageetha, V.T.Perarasu	Removal of Rhodamine B from synthetic waste water by electrocoagulation with and without adsorbent	International conference on Civil, Environmental and Chemical Engineering			Indonesia	2011
M. Arivazhagan, Ashutosh Kumar	Review of Novel methods for the capture carbon dioxide from power plant flue gas	National Seminar on Climate Change and Environmental Challenges	152		Annamalai University	2009
M. Arivazhagan, H. Subrahmaniam Bharadwaj, A.Arunagiri, Suguna, Subashini, B.R. Venkatraman	Adsorption of chromium (VI) using Artocarpus heterophyllus peel	Third Conference for the international congress of Chemistry and Environment	322-327		Kuwait	2007
Abhay Singh Gour, M. Arivazhagan	The use of ANN for decolorization of violet dye using Electrocoagulation	International Conference on Modeling and Simulation			Coimbatore	2007
M. Arivazhagan, N. Pugalenth, Y. Amreesh Reddy	CFD Simulation of Two phase water-air frictional pressure drop in a typical heat exchanger coil	International Conference on Modeling and Simulation	74-79	Emerging Methods towards Frontier Technologies in Chemical and Physical Sciences	Coimbatore	2007

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M. Arivazhagan, Vivek Narayanan. N, G. Mahesh	The use of Artificial Neural Networks (ANN) for modeling of removal of Chromium (VI) from synthetic wastewater by Electrocoagulation process	International Conference on Modeling and Simulation	225-229	Emerging Methods towards Frontier Technologies in Chemical and Physical Sciences	Coimbatore	2007
M. Arivazhagan, N. Pugalenth, A. Sundhar, Suresh Tavva	Studies on Experimental and Simulation of the Two phase (Gas-Liquid) pressure drop in Serpentine coil	National Conference on Frontiers in Chemical Engineering			Guwahati	2007
M. Arivazhagan, N. Pugalenth	Experimental and Computational (CFD) study of Two-phase (Air-Water) flow through pipe	National Conference on Recent trends in Mechanical Engineering (RTME 2007)	5-10		Tiruchirappalli	2007
M. Arivazhagan, N. Pugalenth	Experimental and Simulation (CFD) studies on the effect of pressure drop across horizontal pipe for air/diesel two-phase flow	National Conference on Simulation Modeling & Optimization AECOSIM'07	19		Tiruvannamalai	2007
M. Arivazhagan, P. Sivashanmugam	Energy Audit and Strategies for the Design of Incinerator for Solid Waste Disposal	National Conference on Recent Advances in Waste Management (RAWM-2001)	23-27		Varanasi	2001

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R. Baskar, M. Arivazhagan	Secondary Baggase Pith (SBP) as Adsorbents for Color Removal from Textile wastewater	National Conference on Recent Advances in Waste Management (RAWM-2001)	267-269		Varanasi	2001
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(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number
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