

**National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Dr. R. Manjula**

Job Title	Employer	From	To
Part time Lecturer	Principal, Alagappa chettiar college of Engineering & Technology, karaikudi	September 1998	July 2000
Research Assistant	Principal, Regional Engineering College, Tiruchirappalli	July 2000	December 2003
Lecturer	Principal, Dr. Sivanthi Aditanar College of Engineering, Tiruchendur	December 2003	March 2006
Assistant Professor	Director, National Institute of Technology Tiruchirappalli	03-04-2006	Till date

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

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D	Indian Institute of Technology, Madras, Chennai	December 2013	First class with distinction	Ocean Engineering
M. Tech	National Institute of Technology	December 2003	First class with Distinction (Class Topper)	Water Resources Engineering and Management
B.E. (Civil)	Mepco Schlenk Engineering College, Sivakasi	May 1998	First Class (University 5 th Rank)	Civil Engineering
H.S.C	Board of Hr. Sec. Edu, Tamil Nadu	March 1994	First Class	Maths, Physics , Chemistry and Biology
S.S.L.C	Board of Sec. Edu, Tamil Nadu	April 1992	First Class	Maths, Science, Social Science

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Time table committee – co- ordinator	Preparation of time tables for U.G & P.G students – National Institute of Technology, Tiruchirappalli	2006	2009
CEA staff advisor	i) To conduct guest lectures, training	2009	2010

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	programmes for students ii) To conduct MOMENTS – National level technical symposium - National Institute of Technology, Tiruchirappalli		
Course co-ordinator for Basic Civil Engineering	To co-ordinate the syllabus coverage, preparation of question papers and	2010	2011
Fluid Mechanics Lab in charge	i) purchased various fluid mechanics lab equipments for B.Tech students	2006	Till date
Stock verification officer	Verification of stocks in Physical education department	2008	2013
Moments Committee member	Committee member	2006	2013
Convocation Committee member	Committee member	2006	2014
B.Tech. Project work Co-ordinator	Co-ordinate the B.Tech Project work	2012	2013
Antiragging committee member	Anti-ragging committee to safe guard the first year students	2013	2014
Programme committee member	B.Tech First year orientation programme	2013	2014
Programme Committee Member	NBA Accreditation to B.Tech Programme	2013	2014
Press Committee Member	NIT, Trichy	2014	2015
Co-ordinator	M.S/ Ph.D Admission / Civil Engineering	2014	2015
Faculty Mentor	Faculty Mentorship to first year B.Tech Students	2014	2015
President, Ladies Club	To co-ordinate activities for the welfare of campus ladies.	2015	Till date
NBA Programme committee member	To co-ordinate the central facilities visit by NBA team	2014	Till date

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
Student Secretary	Indian Society for Technical Education-Mepco shclenk Engineering college,Sivakasi	1995	1998
Organizing committee member	TIES'95(Tamilnadu Inter Engineering Sports)	1995	1996

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Programme and Quiz committee member	ENSEMBLE'97 - Mepco shclenk Engineering college, Sivakasi	1997	1998
Executive member	Quality Circle- House keeping Mepco shclenk Engineering college Sivakasi	1997	1998
Staff advisor	U.G students - Dr. Sivanthi Aditanar college of Engineering, Tiruchendur	2005	2006

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
1998	Awarded 5 th rank in B.E Civil Engineering	Madurai Kamaraj University
2003	First Rank in M.Tech	National Institute of Technology Trichy

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)

13. Details of Academic Work

(i) Curriculum Development

List of New Electives introduced

B.Tech.

CE458 Ocean structures and materials

CE462 Simulation Modelling in Water Resources

CE463 Coastal Engineering

CE466 Computational Fluid Dynamics (Honors)

CE467 Free surface flow (Honors)

M.Tech

CE768 Port and Harbour structures

CE769 Offshore Engineering

CE770 Disaster Mitigation and Management

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(ii) Courses taught at Postgraduate and Undergraduate levels

<i>Subjects Handled</i>	<i>Semester</i>
Environmental system Analysis	M.Tech (Environmental Engineering)
Transport of water and waste water	M.Tech (Environmental Engineering)
Disaster Mitigation and Management	M.Tech.(Construction Technology and Management)
Ground Water Modelling and management	II Semester M.Tech.(Water Resources Engineering and Management)
Mechanics of solids	IV semester Civil
Mechanics of solids & Fluids	IV semester EEE
Surveying – II	IV Semester Civil
Fluid Mechanics and machinery	IV Semester Production
Hydraulic machinery	V semester Civil
Strength of Materials - III	Semester MME
Irrigation and Hydraulic structures	VII Semester Civil
Hydrology	VIII Semester Civil
Basic Civil Engineering	II Semester
Fluid Mechanics - I	III Semester
Fluid Mechanics – II	IV Semester Civil
Building Planning and Drawing	IV Semester Civil
Computer Aided Design Laboratory	VI Semester Civil
Fluid Mechanics laboratory	V Semester Mechanical & V Semester Civil
Surveying – I Laboratory	III Semester Civil

(iii) Projects guided at Postgraduate level

Academic Year	Title of project
2006-2007	Conjunctive use management of Pamaniyar sub basin
2009-2010	Study of Breaking wave impact on vertical cylindrical members in marine structures
2010-2011	Response of cylindrical offshore members under wave impact
2014-2015	Study of local scour around bridge piers in sandy soil
2014-2015	Numerical simulation for hydrodynamic response of regular waves on a vertical cylinder
2014-2015	Effects of treated waste water Irrigation on soil properties – A case study at NIT Trichy
2014-2015	Impact Assessment of Ariyamangalam Municipal Solid waste Dumping site on Ground water Quality, Trichy
2014-2015	Assessment of Microbial Contamination in Ground water, soil, Air – A case study at NIT Trichy
2014-2015	Stability and Dam break Analysis of Ponnaniyaru Dam

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2014-2015	Response of vertical seawall under regular, random and breaking waves
2015-2016 (Phase I and II)	Adsorption of Methylene blue dye using carboxymethyl cellulose synthesized from water hyacinth
2015-2016 (Phase I and II)	Analysis and optimization of pipe line network of existing lift irrigation system
2015-2016 (Phase I and II)	Water Quality Modelling of KoraiRiver Trichy
2015-2016 (Phase I and II)	Lean Construction Management

(iv) Other contribution(s)

Faculty Advisor for Student Section – Marine Technology Society (First Student section started in India)- International Society at Washington – from September 2016 onwards.

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Site inspection and Technical opinion on Commissioning of Pillur - II CWSS along with Pillur	Coimbatore City Corporation	Septemer 2010	October 2010	Completed
Flood protection works in Right bank of Kollidam from LS 26.74km to 108.21km and LS108.21 to 168.21 km in Thanjavur and Nagapattinam District of Tamilnadu to PWD	PWD, Chennai	July2011	July 2012	Completed

15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award

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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
June 1995	In-plant training	Local	Participant	Tuticorin Port Trust	Tuticorin
24 th and 25 th February 1998	2 days training programme “ ATLAS”	Local	Participant	Jayceerette Wing of Sivakasi Junior Chamber and Mepco Schlenk Engineering College.	Sivakasi
3 rd February 2005	one day seminar on “The uses of renewable Energy”	Local	Participant	Dr. Sivanthi Aditanar College of Engineering, Tiruchendur.	Tiruchendur.
8 – 10 of December 2004	three days training programme on “Total Quality Management”	Local	Participant	Indian Society for training and Development, Tiruchendur.	Tiruchendur.
19 th to 23 rd June 2006	five days training programme in Civil Engineering Laboratories	National	Participant	NIT Warangal	Warangal
November 13	five days	National	Participant	IIT Bombay	Bombay

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to 17, 2006	training programme on “Advanced Techniques in Water Resource management”				
1 - 2, February, 2007	Finite Element methods for Engineers	National	Participant	NIT, Tiruchirappalli.	Tiruchirappalli
19 - 23, February 2007	Recent Advancements in Environmental Engineering	National	Participant	NIT, Tiruchirappalli	Tiruchirappalli
4 - 13, July 2007	ANSYS	National	Participant	NIT, Tiruchirappalli	Tiruchirappalli
28 October, 2007	Design, construction and maintenance of roads	National	Participant	NIT, Tiruchirappalli	Tiruchirappalli
21 - 23, December 2008	The Seven habits of highly effective people	National	Participant	NIT, Tiruchirappalli	Tiruchirappalli
5 - 10, January 2009	Instructional Design and Delivery system	National	Participant	NITTR, Taramani, Chennai	Chennai
6 - 7, February 2009	Continuing Education Programme on “Deepwater offshore structures”	National	Participant	IIT Madras, Chennai.	Chennai.
12 th February, 2009	One day Symposium on Wind-Wave Modelling	National	Participant	IIT Madras, Chennai.	Chennai.
15 - 20, June 2009	Short term training programme on “Isotope tracer	National	Participant	CWRDM, Calicut	Calicut

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	techniques for water resources development and management”				
7 th September 2009	Regional Seminar on “Intellectual property and innovation management in knowledge era”	National	Participant	NIT, Tiruchirappalli	Tiruchirappalli
14 - 18, December 2009	Short term course on “Offshore structures - Materials, Analysis, Design and construction”	National	Participant	IIT Madras, Chennai.	Chennai.
9 th February 2011	Workshop on “Challenges ahead in Ground water sector of Tamilnadu”	National	Participant	CGWB Trichy.	Trichy.
7 th February 2013	Attended “R&D session of Indian National Committee for Ground Water”	National	Participant	Ministry of Water Resources, Govt. of India	CGWB, Chennai
3 - 5 April 2013	Short term Course on “Sea water Intake and Outfall - Planning, Design and Recent trends”	National	Participant	IIT Madras, Chennai.	Chennai.
6 th to 10 th January 2014	Training Course on “Aquifer Information System and Aquifer	National	Participant	CGWB Trichy.	Trichy.

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	Management Plan”				
13 th and 14 th June 2014	Training Programme on “ Hydro Power projects – Cost Effective Solutions”	National	Participant	Aqua Foundation Academy, NewDelhi	NewDelhi
26 th September, 2014	Presented a topic on breaking the wall of conventional design breaking wave impact on structures at Falling Walls Lab,	National	Participant	IIT Madras, Chennai.	Chennai.
December 11, 2014	Bentley workshop on learning day for water distribution and waste water networks in association with IIT Madras	National	Participant	IIT Madras, Chennai.	Chennai.

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
International Conference on Disaster Mitigation Management and Sustainable Development and Risk reduction	International	22- 24, February, 2016	Co-ordinator	NIT Trichy
workshop on “Testing of Construction Materials”	National	February 26 th and 27 th 2007	Co-ordinator	Department of Civil Engineering National

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				Institute of Technology, Tiruchirappalli
Workshop on “Recent Trends in water Resources, Hydraulics and Coastal Modelling”	National	November 7 th and 8 th 2013	Co-ordinator	Department of Civil Engineering National Institute of Technology, Tiruchirappalli
Workshop on “Innovation, sustainability, Solutions, Adoption, Implementation in Energy, Environment Ecosystem and Human Life”	National	January 23 rd and 24 th 2014	Co-ordinator	Department of Civil Engineering National Institute of Technology, Tiruchirappalli
oneday workshop on “Introduction to Quantum GIS”	National	7 th August 2015	Co-ordinator	Department of Civil Engineering National Institute of Technology, Tiruchirappalli
Workshop on “Advanced Soft Computing Tools in Water Resources and Coastal Engineering”	National	September 8-10, 2016	Co-ordinator	Department of Civil Engineering National Institute of Technology, Tiruchirappalli

18. Invited Talks delivered

Topic	Date	Inviting Organization
Rainwater Harvesting	17 th August 2007	Institution of Engineers, Trichy
Drainage Management	11 th September 2007	Irrigation Management and Training Institute, Trichy
Flood Routing and Reservoir Operation	14 th September 2007	Irrigation Management and Training Institute, Trichy
Advances in Irrigation Engineering and modeling Techniques	22 nd October 2013	Anna University Trichy
Recent Trends in Civil Engineering	21 st July 2015	PRIST University, Vallam Thanjavur
Role of Civil Engineering	31 August 2015	King College of Technology,

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in Globalisation		Nammakal
Significance of Research Methodology	24, September 2015	Parisutham Institute of Technology, Thanjavur
Research Opportunities in Civil Engineering	11 th January 2016	Nehru Institute of Technology, Coimbatore

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Member of institution of Engineer	Institution of Engineers	M139603-4
Life Member in The Indian Society for Technical Education	ISTE	LM42113
Life member in Indian Geotechnical Society	IGS	LM3653

20. Academic Foreign Visits

Country	Duration of Visit	Programme
National University Singapore	11 August to 11 September, 2008	Short term research visit to Tropical Marine Science Institute, NUS , Singapore

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
Manjula R., Sannasiraj, S.A., and Palanichamy, K (2013)	Laboratory measurements of wave impact pressure on a slender cylindrical member	International Journal of Ocean and Climate Systems	Vol. 4, No.2,	pp. 151-169	2013	
Manjula R., Sannasiraj, S.A., and Palanichamy,	Experimental Investigations of acceleration on slender	International Journal of Ocean and Climate	Vol.5, No.3,	pp. 117-125	2014	

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K (2014)	cylindrical member under breaking waves	Systems				
Manjula R, Sannasiraj S.A and Saravanan S (2015)	Experimental Investigation of Response of Vertical Slender Cylinder under Breaking Wave Impact	Aquatic Proceedia	Vol. 4,	227-233	2015	
Saravanan S and Manjula R (2015)	Geomorphology Based Semi-distributed Approach for Rainfall-runoff Modeling Using GIS	Aquatic Proceedia	Vol. 4,	908-916	2015	
Manjula R and Sannasiraj S.A (2015)	Response of Slender Vertical Cylinder under breaking waves	Procedia Engineering	Vol. 116,	631-638	2015	
Rajesh R, Saravanan S, Manjula R, Antony Raj A and Ramya M (2015)	Assessment of Artificial Recharge on Ground water table and quality – A case study	International Journal of Applied Engineering Research	vol. 10(33),	2418 77-2419 2	2015	Scopus indexed
Manjula R and SannasiRaj	Response of slender vertical cylinder under breaking wave impact	Journal of Hydrodynamics	Accepted for publication		2016	0.776

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
Manjula R., Pavel Tklich, Sannasiraj, S.A., and Palanichamy, K	storm surge forecasting using artificial neural networks	Third International conference in ocean Engineering (ICOE 2009)			IIT Madras, Chennai	2009
Manjula R.,	Breaking wave	8 th			IIT	2012

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Sannasiraj, S.A., and Palanichamy, K	impact pressure on air slender vertical cylinder member	International conference on Coastal and Port Engineering in Developing countries, COPEDEC 2012			Madras, Chennai	
Manjula R. , Sannasiraj, S.A., and Palanichamy, K	Deflection of slender cylindrical member under breaking wave impact	The 22 nd International Offshore and Polar Engineering Conference,			Greece.	2012
Rajesh.R, Antony Raj. A, Ramya. M, Saravanan. S, Manjula. R	Evaluation of groundwater quality in and around Ariyamangalam landfill site, Tiruchirapalli, India: an integrated geochemical and GIS approach	International Conference on Green Technology for Environmental Pollution Prevention and Control			NIT Trichy	2014
Ramya.M, Saravanan.S, Manjula.R ,	Municipal Solid Waste Characteristics and Management- A Case Study on Ariyamangalam landfill site	International Conference on Green Technology for Environmental Pollution Prevention and Control			NIT Trichy	2014
Antony Raj. A, Rajesh. R, Ramya. M, Saravanan.S and Manjula. R	Effects of Treated Wastewater Irrigation on Soil Properties – A Case Study at NIT Trichy	International Conference on Advances in Civil Engineering Materials And Processes			CIT, Coimbatore	2015
Ramya N, Saravanan S and Manjula R	Investigating Ground water Contamination using Vertical Electrical Sounding around Ariyamangalam	International Conference on Sustainable Engery and Build Environment			VIT University	2015

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	Municipal Soldwaste Dumpsite, Tiruchrappalli, TamilNadu India					
Manjula R, S.A. Sannasiraj	Response of Slender Vertical Cylinder Under Breaking Waves	International Conference on Asian and Pacific coasts			IIT Madras, Chennai	2015
Manjula R, Saravanan. S	Study of Local Scour Around Bridge Peirs in Sandy Soil	International Conference On Hydraulics, Water Resources And River Engineering			IIT Roorkee, India	2015
Mahima Goyal, S. Saravanan, R. Manjula	A Study Of Pollutant Dynamics Using QUAL2K:A Case Study Of Noyyal River Basin, Tamilnadu	1 st International Conference On Disaster Mitigation And Management For Sustainable Development And Risk Reduction			NIT Trichy	2016
P. Vaanathi, R. Manjula	A Review of Coastal Protection Measures with Vegetation	1 st International Conference On Disaster Mitigation And Management For Sustainable Development And Risk Reduction			NIT Trichy	2016
Manjula R, Saravanan S	Numerical Simulation For Hydrodynamic Response Of Regular Waves On A Vertical Cylinder	1 st International Conference On Disaster Mitigation And Management For Sustainable Development And Risk Reduction			NIT Trichy	2016
Sidarth Phukan, R. Manjula	Adsorption Of Methylene Blue Dye Using Carboxymethyl	1 st International Conference On Disaster Mitigation And			NIT Trichy	2016

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	Cellulose Synthesized From Water Hyacinth	Management For Sustainable Development And Risk Reduction				
G. Sakthivel, R. Manjula	Assessment Of Coastal Aquifer Vulnerability Prone Zone In The South India Coast Of Cuddalore District, Tamilnadu, India-Geospacial Approaches	1 st International Conference On Disaster Mitigation And Management For Sustainable Development And Risk Reduction			NIT Trichy	2016

(C) Books & Monographs

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