

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

Curriculum Vitae



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

Dr. P. Jayabalan is presently working as Professor of Civil Engineering at NIT Tiruchirappalli. He obtained his Ph.D. from IIT Madras in the year 1990. He has joined in this institute as lecturer in the year 1991 and elevated to Assistant Professor and Professor in the years 1996 and 2007, respectively. During the 25 years of service he held various administrative positions such as controller of examinations, Dean (Academic Programmes), Head of the Department of Civil Engineering. His major contributions during these tenures are implementing the credit system for UG and PG programs, Common Counselling and Admission for M.Tech Programs among all NITs, NBA accreditation for UG and PG programs in Civil Engineering and modernization of laboratories. He was the Nodal Officer for TEQIP Phase-I and successfully implemented many schemes and achieved 9.9 score in 10 point scale of TEQIP evaluation.

He is instrumental for bringing the user oriented M.Tech degree program in “Construction Technology and Management” sponsored by Larsen & Toubro under the Industry-Institute Interaction Program.

1. Name : P. Jayabalan
2. Designation: Professor
3. Office Address: Department of Civil Engineering
4. Telephone (Direct) (Optional):
Telephone : 2503157 Extn :
Mobile (Optional): 9443173517
5. Email (Primary):pjeya@nitt.edu Email (Secondary) :pjeya@yahoo.com
6. Field(s) of Specialization: Structural Engineering
7. Employment Profile

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Job Title	Employer	From	To
Lecturer	Regional Engineering College	28-11-1990	22-07-1996
Assistant Professor	Regional Engineering College	23-07-1996	22-04-2007
Professor	National Institute of Technology	23-04-2007	Till Date

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

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D. Degree	Indian Institute of Technology, Madras	1990	-	Structural Engineering
Master's Degree	Madras University	1982	First Class	Structural Engineering
Bachelor's Degree	Annamalai University	1979	First Class	Civil Engineering

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Controller of Examinations(UG)	Regional Engineering College, Tiruchirappalli	Aug 1997	July 2000
Dean (Academic)	National Institute of Technology, Tiruchirappalli	Feb 2008	Feb 2010
TEQIP Coordinator	National Institute of Technology, Tiruchirappalli	Aug 2007	Aug 2010
Head of the Department (Civil Engineering)	National Institute of Technology, Tiruchirappalli	Feb 2012	Jan 2015
Chairman, Library Committee	National Institute of Technology Tiruchirappalli		
Chairman, Estate and Work Committee	National Institute of Technology Tiruchirappalli		
Member , Quality Assurance Committee	National Institute of Technology Tiruchirappalli		

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
Subject expert	For the appointment committee for the selection of Faculty, Gandhi gram Rural Institute, Gandhi gram		
Subject expert	For the appointment committee for the selection of Faculty, National Institute of Technology, Puducherry, Karaikal		

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Subject expert	For the appointment committee for the selection of Faculty, PSNA college of Engineering and Technology, Dindigul		
Subject expert	For the appointment committee for the selection of Faculty at PSG-ITAR Coimbatore		

1. Member, Academic Council for faculty of Engineering, Periyar Maniammai University, Vallam, Tanjore
2. Member, Board of Studies, Anna University, Chennai
3. Member, Board of Studies, Thiagarajar College of Engineering, Madurai
4. Member, Board of Studies, P.S.G.College of Technology, Coimbatore
5. Chairman, Affiliation Committee, Anna University, Chennai
6. Member, Governing Council, J.R.Polytechnic College, Tiruchirappalli
7. Member, Board of Studies, Sastra University, Tanjore

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2006	Commendation Certificate award in recognition of the paper titled "Corrosion Evaluation of pre-stressing steel in pre-stressed concrete cantilever segmental block"	The Council of the Indian Roads Congress

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
M.Tech Structural Engineering
B.Tech Civil Engineering

(ii) Courses taught at Postgraduate and Undergraduate levels

UG:

Structural Analysis, Design of Steel Structures Advanced Strength of Materials and Matrix Methods of Structural Analysis

PG:

Stability of Structures, Advanced Steel Structures and Theory of Plates

(iii) Projects guided at Postgraduate level

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(iv) Other contribution(s)

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed

15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
K.SaravanaRajamohan	Static and Dynamic Response Evaluation on Fly Ash Concrete Composites.	Supervisor	2005
R. Manoharan	Studies on Effect of Chemical Admixtures on Corrosion Resistance of Rebars in Concrete	Supervisor	2010
P.V. Premalatha	Effect of Tie Rod Anchors on the Behaviour of Berthing Structure Under Lateral Loads	Supervisor	2012
G. Niranjana	Effect of Fibre Reinforcement in Cement Concrete Pavements	Supervisor	2012
J.Ronald Aseer	Experimental Investigation on Mechanical and Thermal Properties of Composite Panel Made from Municipal Solid Waste- Banana Fiber	Supervisor	2014
G.Vani	Buckling Characteristics of Cold Formed Steel Plain Angle Compression Members Strengthened Using CFRP	Supervisor	2015
M.Ashok	Flexural Behavior of Cold Formed Steel Hat Sections	Supervisor	Ongoing

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

Date (s)	Title of Activity	Level of Event (International/	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any	Event Organized by	Venue

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		National/ Local)	other)		

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

18. Invited Talks delivered

Topic	Date	Inviting Organization

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Life	Indian Society for Technical Education	LM 12401, Year-1982
Fellow	The Institution of Engineers(India)	016014, Year-1983
Life	Indian Geotechnical Society	LF 0508, Year-2014

20. Academic Foreign Visits

Country	Duration of Visit	Programme

21. Publications

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(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
Manoharan.R, Jayabalan.P, Palanisamy.K	Effect of Chemical Admixture on Corrosion Resistance of Reinforced Steel Rods in Concrete	<i>ARPJ Journal of Engineering and Applied Sciences</i>	Vol.4		2009	
Manoharan.R, Jayabalan.P, Palanisamy.K.	Experimental Evaluation of Corrosion Rate of Rebars in M25 Concrete with Water Proofing Admixture	<i>International Journal of Applied Engineering Research</i>	Vol.4	1045-1061	2009	
P.V.Premalatha, K.Muthukumar, P.Jayabalan.	Effect of dredging and tie-rod anchor on the behavior of berthing structure	<i>International Journal of Engineering Science and Technology,</i>	Vol.3	5099-5115	2011	
Saravana Raja Mohan. K, P.Jayabalan, A.Rajaraman.	Properties of Fly Ash Based Coconut Fiber Composite	<i>American Journal of Engineering and Applied Sciences</i>	Vol.5	29-34	2012	
J. Ronald Aseer, K.Sankaranarayana samy, P.Jayabalan, R.Natarajan, Priya.K.Dasan.	Morphological, physical and thermal properties of chemically treated banana fiber	<i>Journal of Natural Fibers</i>	Vol.10	365-380	2013	
J. Ronald Aseer, K.Sankaranarayana samy, P.Jayabalan.	Effect of chemical treatment on mechanical properties of municipal solid waste and banana fiber reinforced	<i>Advanced Materials Research</i>	Vol.871	253-258	2013	

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	polymer composites					
J. Ronald Aseer, K.Sankaranarayana samy, P.Jayabalan.	Morphological, Physico-Mechanical and Thermal properties of banana plant fibers (Musa sapientum)	<i>Applied Polymer Composites</i>	Vol.1(3)	125-134	2013	
J. Ronald Aseer, K.Sankaranarayana samy, P.Jayabalan, R.Natarajan, Priya.K.Dasan	Morphological and mechanical properties of chemically treated municipal solid waste (MSW)/ banana fiber and their reinforcement in polymer composites,	<i>Science and Engineering of Composite Materials</i>	DOI 10.1515/secm-2013-0203		2013	
J. Ronald Aseer, K.Sankaranarayana samy, P.Jayabalan, R.Natarajan, Priya.K.Dasan	Mechanical and water absorption properties of municipal solid waste and banana fiber reinforced urea formaldehyde composites,	<i>Environmental Progress and Sustainable Energy</i>	DOI 10.1002/ep.11966		2013	
G.Vani, P.Jayabalan, Jikhil Joseph.	Numerical Analysis of Cold Formed Steel Plain Angle Compression Members	<i>International Journal of Emerging Technology and Advanced Engineering</i>	Vol.3	22-29	2013	
V.Innasi Raja, M.Suneel Kumar and P.Jayabalan	Ultimate strength of uniaxially compressed mild steel plate at elevated temperatures	<i>Journal of Structural Fire Engineering</i>	Vol.4		2013	
Nivethitha.A.P, Jayabalan.P, Vani.G.	Numerical Analysis of Eccentrically Loaded Cold Formed Plain	<i>Journal of Structures – Hindawi Publications</i>			2014	

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	Channel Columns					
G.Vani, P.Jayabalan.	Codal comparisons for the behaviour of unstiffened cold formed angle compression member	<i>International Journal of Earth Sciences and Engineering (Under Publication)</i>				
V.Kalyanaraman, N.B.Vijayakumar, B.V.Vijay and P.Jayabalan	Local and Post buckling behaviour of fibre composite plates	<i>Journal of Aero society of India</i>	Vol.41		1989	
Saravananaramohan. K, Jayabalan.P, Rajaraman.A.	Studies on fly ash concrete composites	<i>ICI Technical Volume</i>		102-105	2003	
Umesha.P.K, Kavitha.R, Jayabalan.P.	HEMTAAD: A Computer software for analysis and design of Microwave tower	<i>New Building Materials and Construction World</i>	Vol.10		2004	
Rajaraman.A, Natarajan.C, Jayabalan.P, Almas Begum.N.	Corrosion evaluation of prestressed steel in pre-stressed concrete cantilever segmental block	<i>Journal of the Indian Road Congress,</i>	Vol.66-2	427 – 434	2005	
Natarajan.C, Jayabalan.P, Almas Begum.N, Rajaraman.A.	Corrosion protection by coatings on pre-stressed steel	<i>The Journal of Science and Engineering Corrosion</i>	Vol.61	1189 - 1193	2005	
Krishnaswami.B.N, Dattatreya.J.K, Jayabalan.P, Neelamegam.M.	Durability Aspect of High Performance Concrete	<i>ICI Journal</i>	Vol.7		2007	
Suneel Kumar.M, Jayabalan.P, Natarajan.C	Effect of Intra Planar Differential Settlement Analysis of Boiler Supporting Structure –A Case Study	<i>Institution of Engineers</i>	Vol.68		2007	

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Jayabalan.P	Interaction Curves for Stiffened Plates Subjected to Axial and Lateral Loads	<i>INSDAG'S Steel in Construction</i>	Vol.8		2007	
Jayabalan.P	Neural Network Model for Torsional Flexural Buckling of Innovative Cold Formed Steel Compression Members	<i>INSDAG'S Steel in Construction</i>	Vol.8		2007	
Jayabalan.P, Krishnaswami.B.N	High Performance Concrete Using Fumed Silica	<i>New Building Materials and Construction World</i>	Vol.13		2008	
Niranjana.G, Samson Mathew, Jayabalan.P.	Structural Strength Enhancement of Rigid Pavement using Scrap Steel Fibre Reinforcement	<i>New Building Materials and Construction World</i>	Vol.13		2008	
Saravananaramohan. K, Rajaraman.A, Jayabalan.P, Lakshmi Prabha.T.	Role of Fly Ash Concrete Composites in Resisting Seismic Damage	<i>The IUP Journal of Structural Engineering,</i>	Vol.IV	18-26	2011	
Premalatha PV, Muthukumaran K, Jayabalan.P.	Experimental Study on behaviour of Piles in a berthing structure	<i>Maritime Engineering Journal</i>				

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
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Nivethitha.A.P, Jayabalan.P, Vani.G.	Finite element analysis of eccentrically loaded cold formed plain channel sections	<i>International conference on Innovations and Advances in Civil Engineering Towards Green and Sustainable Systems (INACES 2014)</i>			Coimbatore, Tamil Nadu, India	April 2014
A.Subbulakshmi, P. Jayabalan	Nonlinear analysis of square concrete filled steel tubes under constant axial load and monotonic lateral loading	<i>International Conference on Structural Engineering and Mechanics (ICSEM 2013)</i>			Rourkela, India	December 2013
J. Ronald Aseer, K.Sankaranarayan asamy, P.Jayabalan	Effect of Chemical Treatment on Mechanical Properties of Municipal Solid Waste and Banana Fiber Reinforced Polymer Composites	<i>International Conference on Applied Mechanics, Fluid and Solid Mechanics(A MFSM 2013)</i>			Singapore	November 2013

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G.Vani, P.Jayabalan, Jikhil Joseph	Numerical Analysis of Cold Formed Steel Plain Angle Compressio n Members	<i>International Conference on Modern Trends in science, Engineering and Technology 2013</i>			Dubai	September 2013
J. Ronald Aseer, K.Sankaranarayan asamy, P.Jayabalan	Morphologi cal, Physical- Mechanical and Thermal properties of banana fibers (Musa sapientum)	<i>Third International Conference on Natural Polymers (ICNP 2012)</i>			Mahatma Gandhi University, Kottayam, Kerala, India	October 2012
P V Premalatha, K.Muthukumaran, P.Jayabalan	Behavoieur of piles supported berthing structure under lateral loads	<i>Pan-Am CGS Geotechnical Conference (14th Pan- American Conference on Soil Mechanics and Geotechnical Engineering)</i>			Toronto, Ontario, Canada	October 2011
Premalatha.P.V, Sandeep.G, Jayabalan.P, Muthukumaran.K	Numerical Modelling and Analysis of a Berthing Structure with Tie Rod	<i>Proceedings of the International Conference in Ocean Engineering, ICOE 2009</i>			IIT Madras, Chennai, India	February 2009
Niranjana.G, Samson Mathew, Jayabalan.P.	Fiber Reinforced Concrete for Seismic Strength Enhanceme nt of Rigid Pavements	<i>Proceedings of the International Conference on Earthquake Engineering</i>			SoCE, SASTRA, Thanjavur	February 2006

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Samson Mathew, Jayabalan.P, Niranjana.G, Sankar.K.	Optimization of Fibers and Study on the Mechanical Characteristics of the Fiber Reinforced Concrete	<i>Proceedings of the International Conference on Recent Advances in Concrete and Construction Technology</i>			SRMIST, Chennai	December 2005
Saravanaramohan.K, Jayabalan.P, Rajaraman.A, Lakshmi Prabha.T	Role of Flyash Based Fibre Concrete Composites in Resisting Seismic Damage	<i>Proceeding of International Conference on Structural and Foundation failures</i>			Singapore	August 2004
N.Krishnamoorthy, P.Jayabalan.	High Performance Concrete Using Fumec Silica	<i>International Conference on Advances in Concrete Construction – ICACC – 2004</i>			Hyderabad	December 2004
Saravanaramohan.K, Jayabalan.P, Rajaraman.A.	Performance Enhancement in Concrete Composites Using Local Materials	<i>Proceeding of 28th International Conference on Our World of Concrete and Structures</i>	413-420			August 2003
Saravanaramohan.K, Jayabalan.P, Rajaraman.A.	Studies on fly ash concrete composites	<i>Proceeding of International Conference on Innovative World of Concrete</i>	102-105			2003

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Kamatchi.P, Jayabalan.P, Natarajan.C, Kuppusamy.K.A.	Rehabilitati on of Overhead water tank- A case study	<i>Proceedings of the International conference on 'Maintenanc e and Durability of Concrete structures</i>			Hyderabad	March 1997
S.Ravindra Bharathi.K, Sakthi, P.Jayabalan	Object oriented programmin g applications in the design of RCC Beams	<i>International Conference on Computing and Information Technology for Architecture, Engineering and Construction</i>			Singapore	May 1996
V.Kalyanraman, P.Jayabalan	Local buckling of stiffened & Unstiffened elements, under Non- uniform compression	<i>12th International specialty conference on Cold formed steel structures</i>			St.Louis, Missouri, USA	Oct 1994
G.Vani, P.Jayabalan.	Codal comparisons for the behaviour of unstiffened cold formed compression members	<i>Proceedings of the National Conference on Advancement s in Materials, Construction & Sustainable Environment (AMCSE 2014)</i>			Krishnanko vil, Tamilnadu, India	March 2014

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Premalatha.P,V, Muthukumaran.K, Jayabalan.P.	Analysing the Optimum Length of Tie Rod Anchor for a Berthing Structure	<i>Proceedings of Indian Geotechnical Conference – Geotechnics in Infrastructure Development (GEOTIDE)</i>	127-130		IGC 2009, GUNTUR, Andra Pradesh, India	Feb 2010
Sandeep.G, Premalatha.P.V, Jayabalan.P, Muthukumaran.K.	Strengthening of Berthing Structure	<i>Proceedings of the National Conference on Failure Studies and Remedial Measures to Concrete Structures</i>	190-199		KSR College of Engg, Tiruchengode with AICTE New Delhi	Dec 2008
Jayashankar.R, Jayabalan.P, Manoharan.R.	Effect of Chemical Admixtures on Corrosion of Reinforced Concrete	<i>Proceeding of National Conference on Advances and Innovations in Civil Engineering</i>			Sivakasi	March 2007
Jayashankar.R, Jayabalan.P, Manoharan.R.	Effect of Flyash and Blast Furnace Slag in Concrete	<i>Proceeding of National Conference on Advances and Innovations in Civil Engineering</i>			Sivakasi	March 2007
Natarajan.C, Jayabalan.P, Dhanalakshmi.G.	Behaviour of cement – flyash blocks and masonry prisms	<i>Accepted and presented in National Conference on New Perspectives and Paradigm in Materials,</i>			Coimbatore Institute of Technology, Coimbatore	January 2005

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		<i>Design and Construction of Civil Engineering Systems (NPPCES – 2005)</i>				
Saravanaramohan K, Jayabalan.P, Rajaraman.A.	Properties of Jute fibre reinforced concrete	<i>Proceeding of National Seminar on Recent Trends Building Materials</i>	194-202		CSIR Bhopal	2004
Kamatchi.P, Jayabalan.P, Natarajan.C, Kaleel Rahman, Sakthi.K.	Design of Structural Steel Frames using Object - Oriented Programming Approach	<i>Proceedings of the National Conference on Computer Aided Structural Analysis & Design</i>			Hyderabad	January 1996
Kaleel Rahman, Jayabalan P, Natarajan.C, Kamatchi.P, Sakthi.K.	Design of R.C.C. Framed Structures using Object –Oriented Programming Approach	<i>Proceedings of the National Conference on Computer Aided Structural Analysis & Design</i>			Hyderabad	January 1996
Vanathy.K, Natarajan.C, Jayabalan.P, Sakthi.K.	Knowledge Based Expert System for Structural floor Systems	<i>Proceedings of the National Symposium on 'Tall Structures</i>			Tiruchirappalli	February 1995

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P. Jayabalan V.Kalyanaraman,	Local buckling of Non-uniformly compressed stiffened and unstiffened elements	<i>National Symposium on Advance in steel structures</i>			Chennai	February 1990
H.B.Arvind, P.Jayabalan, R.Balasubramanian, V.Kalyanaraman C.S.Krishnamorthy	Analysis of Guyed Masts	<i>Second International Conference on Computer Aided Analysis and Design in Engineering</i>			Roorkee	February 1985

(C) Books & Monographs

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