

# National Institute of Technology, Tiruchirappalli: PerformaforCVofFaculty/StaffMembers

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## Curriculum Vitae

### Brief Profile:



I am, Prof S.S.Arulappan, B.E; M.E , Associate Professor, Department of Mechanical Engineering, National Institute of Technology,(NIT) Tiruchirappalli, India-620015. Served at various capacity for the past 34 years In the above National Institute of Technology, which was formerly known as Regional engineering College, Tiruchirappalli, India-620015.

I am a graduate Mechanical Engineer in the year 1980 and a Post graduate in Machine Design in the year 1982.

School first in Engineering division Engineering Science and Engineering drawing subjects first marks and overall school first in SSLC. In PUC double centum in mathematics.

I could win State award for my U.G Project work in Wind Turbine in the year 1980. Then a National award was won by my Student whom I guided him in a National Level Design Competition.

Previous to the National award Joined in the above Institute in the year 1982 December as a Research Associate. In another six months I was given a Permanent Post as Lecturer in the same Department of Mechanical Engineering.

Now I am serving as Associate Professor doing Simultaneously Teaching Machine Design and the related to Under Graduate Students and Post Graduate Students, Research work in my area of interest and Consultancy work by being a faculty member in the same Department of Mechanical Engineering, National Institute of Technology.

Published 13 original research papers in International Journals. My Name can be referred in Google Scholar. In the Recent past I have served in the apex body of this National Institute of Technology which was formerly known as Regional Engineering College, Tiruchirappalli located in the State of Tamil Nadu, India-620015 as a Member, Board of Governors.

Sincere, honest and dedicated service I have put up and earned a good name and reputation. Twice I have Served as President of the then Faculty Association.

This National Institute of Technology Tiruchirappalli India is a Premier Institute and is an Engineering Teaching-learning, consultancy and Research Institution with around 5000 students currently housed here in a relatively large residential campus.

In the year 2016 I was able to finish a book on Machine Design and it is published now this year 2017.

Last three consecutive years 2015,2016 and 2017 I received three International Best research Paper Awards for my research in wind turbines and Ocean wave energy which I am doing it in our leading Institute NITT. I am a expert in wind turbines and I am one of the senior most Board Member of NITT and senior most in all social welfare activities in NITT .I am still the leader in all domains of NITT.

Four Years before Two professors members from Royal Swedish academy asked my opinion for the award of Nobel prize for yet another person who actually took a lead from my fundamental works on What are Light Quanta I gave a reply to them that If Nobel prize is given for them then I must also share the Prize. That persons did not reply but I gave all the evidences.

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1. Name : **Prof. S. S. ARULAPPAN**
2. Designation : Associate Professor
3. Office Address : Mechanical Engineering Department,  
National Institute of Technology, Tiruchirapalli 620015.
4. Telephone (Direct)(Optional):  
Telephone: 0431-2503411 Extn (Optional):  
Mobile (Optional): +91-8220931901
5. Email(Primary) : sarul@nitt.edu Email (Secondary): ssarul2001@yahoo.com
6. Field(s) of Specialization: Machine Design

### 7. EmploymentProfile

Job Title	Employer	From	To
Lecturer- Mechanical Engineering	Regional Engineering College, Tiruchirapalli	1.06.1983	
Associate Professor	National Institute of Technology, Tiruchirapalli		Till date

### 8. Academic Qualifications (From Highest Degree to HighSchool):

Examination	Board / University	Year	Division/ Grade	Subjects
M.E.	University of Madras	1982	1 <sup>st</sup> Class	Engineering Design
B.E.	Madurai Kamaraj University	1980	1 <sup>st</sup> Class	Mechanical Engineering

### 9. Academic/Administrative Responsibilities within theUniversity

Position	Faculty/Department/Centre/Institution	From	To
Board Member, NITT	Institution	2008	2010

### 10. Academic/Administrative Responsibilities outside theUniversity

Position	Institution	From	To
Examiner	Anna University	2005	Till date
Examiner	Kerala University	2005	Till date

### 11. Awards, Associateshipsetc.

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Year of Award	Name of the Award	Awarding Organization
1980	State Award for Project work	Director of Technical Education
2015	International Best Research Paper Award	International Journal of Mechanical and Production Engineering Research and Development
2016	International Best Research Paper Award	International Journal of Mechanical and Production Engineering Research and Development
2017	International Best Research Paper Award	International Journal of Mechanical and Production Engineering Research and Development

### 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 – UG, PGPrograms

(ii) Courses taught at Postgraduate and Undergraduatelevels

UG	PG
<ul style="list-style-type: none"> <li>• Analysis and Design of Machine elements</li> <li>• Machine Drawing</li> <li>• Automobile Engineering Laboratory</li> <li>• Dynamics laboratory</li> </ul>	<ul style="list-style-type: none"> <li>• Analysis and Design of Pressure Vessels</li> </ul>

(iii) Projects guided at Postgraduate level : 25+

(iv) Other contribution(s)- Syllabus revision committees

### 14. Details of Major R&DProjects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Experimental Wind energy form	Government of India			Completed

### 15. Number of PhDs guided

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

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

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Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
01-07-1987 to 12-07-1987	ISTE Summer School	National	Participant	IIT, Madras	IITM
13-05-1984 to 26-05-1984	ISTE Summer School	National	Participant	PSG College of Technology, Coimbatore	Coimbatore
25-11-1986 to 06-12-1984	Workshop	National	Participant	Annamalai University	Tamilnadu
20-02-1984 to 25-02-1984	Workshop	National	Participant	BHEL	Tiruchirappalli

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 Member	ISTE	
Life member	SAE	

20. Academic Foreign Visits

Country	Duration of Visit	Programme
Spain	3 days	International Conference on Renewable Energy

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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)
S.S.Arulappan	New Green Energy: Ocean Wave Energy Conversion Physical Turbine Models and Designs Photos Presentation and Explanations for Large Scale Manufacturing	International Journal of Mechanical and Production Engineering Research and Development, TJPRC	Vol no. 7 Issue 4	425-430	2017	6.8765
S.S.Arulappan	'Experimental and CFD Investigations Analogy for Wind Turbine Efficiency Using Commercial Small Fan Blades	International Journal of Mechanical and Production Engineering Research and Development, TJPRC	Vol no. 5 Issue 6	53-58	2015	5.6934
S.S.Arulappan	Numerical, Experimental and Analytical Investigation for Higher Wind Turbine Efficiency	International Journal of Mechanical and Production Engineering Research and Development, TJPRC	Vol no. 5 Issue 4	123-132	2015	5.6934
S.S.Arulappan	Green Energy : All New Possible Energy Efficient Engine, All New Effective Ocean Wave Energy Extraction Device and More Efficient Wind Turbine Rotor Blade Designs Proposed	International Journal of Mechanical and Production Engineering Research and Development	Vol no. 2 Issue 1	81-84	2012	
S.S.Arulappan	Technology to implement the Conceptual Design Changes to Gain Good Improvement in Horizontal Axis Wind Turbine Performance and Efficiency	International Journal of Mechanical and Production Engineering Research and Development	Vol.1. Issue.2	125-132	2011	
S.S.Arulappan	Conceptual Design of a new type of "Engine" for various applications with expected 10% higher overall efficiency	International Journal of Mechanical and Production Engineering Research and Development	Vol.1. Issue.2.	59-66	2011	
S.S.Arulappan	Deductions and Experimental Observations For understanding What Light Quanta are'	Galilean Electrodynamics	Vol.22, No 1	19-20	2011	

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S.S.Arulappan	'Light Quanta Identified'	Galilean Electrodynamics	Vol. No.16	27-30	2005	
S.S.Arulappan	How Can Particles Exhibit Diffraction	Galilean Electrodynamics	Vol No.15	22-25	2004	
S.S.Arulappan	Separating Electric Charge From Matter	Galilean Electrodynamics	Vol No.13	93-94	2002	
S.S.Arulappan	What Is Annihilation / Creation?	Galilean Electrodynamics	Vol No.11	54	2000	
S.S.Arulappan	What Are Light Quanta?	Galilean Electrodynamics	Vol No.10	90	1999	
S.S.Arulappan	An Idea: Electromagnetic Charges Are Not Charged Material Particles	Galilean Electrodynamics	Vol No.10	30 & 34	1999	

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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
S.S.Arulappan	Numerical, Experimental and Analytical and CFD investigation for Higher Wind Turbine Efficiency	International Conference on Renewable Energy 2018	Participated & Presented the research paper	Renewable Energy	Spain	2018

### (C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number
Prof. S. S. Arulappan	Essence of Machine Design	Sara book publication	April 2017	978-1-73037-032-8