

# National Institute of Technology, Tiruchirappalli:

## Performa for CV of Faculty/ Staff Members

### Curriculum Vitae

Brief Profile: Dr. M. Sivanesan is working as an assistant professor in the Department of Mathematics at NIT Tiruchirappalli. His research interest lies in developing methods of construction of analytical and numerical solutions for boundary value problems governed by partial differential equations and their applications in various branches of engineering, such as Water wave mechanics.

1. Name : M. Sivanesan
2. Designation : Assistant Professor
3. Office Address : 208, Lyceum Building,  
: Department of Mathematics,  
: NIT Tiruchirappalli, Tamil Nadu-620015
4. Telephone : 0431- 250 3667
5. Email : sivanesan@nitt.edu
6. Fields of Specialization: Differential and Integral equations,  
Wave-Structure Interactions



#### 7. Employment Profile

Job Title	Employer	From	To
Assistant Professor	NIT Tiruchirappalli- 620015	20/5/2020	Present
Assistant Professor	VIT Vellore- 632014	11/6/2018	08/5/2020

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

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D	IIT Madras	2018	NA	Mathematics
M.Tech	IIT Madras	2012	First	Industrial Mathematics and Scientific computing
M.Sc	Madras University	2010	First	Mathematics
B.Sc	Thiruvalluvar University	2007	First	Mathematics
Higher Secondary	Tamil Nadu State Board	2003	First	Mathematics, Physics, Chemistry and Biology
High School	Tamil Nadu State Board	2001	First	General

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### 9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Executive Member	Purchase committee (Mathematics)	June- 2020	Present
Verification Officer	Ph.D Admission Process	June- 2020	Present
Faculty Coordinator	Mathematics Research Forum	Oct- 2021	Present
Warden	Diamond and Jade Hostels	Nov- 2021	Present

### 10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To

### 11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization

### 12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
2010	GATE	IIT Council	Aug-2010	2012
2012	CSIR-NET/JRF	CSIR	June 2012	-
2012	Institute Research Fellowship, IIT Madras	IIT Madras	July 2012	July2017

### 13. Details of Academic Work

#### (i) Curriculum Development

Mathematical Theory of Water Waves- PG level course

#### (ii) Courses taught at Postgraduate and Undergraduate levels

UG: MAIR11- Matrices and Calculus

MAIR12- Linear Algebra and Calculus

MAIR22- Complex Variable and Differential Equations

MAIR34- Probability and Distribution Theory

PG: MA727- Numerical Solutions of Differential Equations

PhD:MA801- Research Methodology in Mathematical Sciences

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(iii) Projects guided at Postgraduate level

- (a) ‘Scattering of water waves by a structure’ by Mr. Prakash B Kanasavi (216119014)
- (b) ‘Scattering of water waves by a vertical barrier’ by Mis. Jeevasri (216120007)
- (c) ‘Eigenfunction expansion technique for linear wave-structure interactions’ by Mr. Karn Kumar (216120009)

(iv) Other contribution(s)

### 14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Surface gravity wave scattering by an array of vertical porous barriers	NIT Trichy	April-2021	March-2023	Ongoing

### 15. Number of PhDs guided

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

### 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
17th-21st January, 2022	Five Days National Workshop on Mathematical Sciences for CSIR and GATE Aspirants	National	Speaker and organizer	Mathematics department, NIT Trichy	NIT Trichy
4th-8th April, 2022	Five Days’ National Workshop on MATLAB and LaTeX for Beginners	National	Speaker and organizer	Mathematics department, NIT Trichy	NIT Trichy

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14 <sup>th</sup> - 18 <sup>th</sup> June, 2021	National Level Workshop on Algebra, Analysis and Differential Equations	National	Speaker	Mathematics department, Trichy	NIT	NIT Trichy
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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
Five Days National Workshop on Mathematical Sciences for CSIR and GATE Aspirants	National	17th-21st January, 2022	Organizer	Mathematics department, NIT Trichy
Five Days' National Workshop on MATLAB and LaTeX for Beginners	National	4th-8th April, 2022	Organizer	Mathematics department, NIT Trichy
Inauguration of MATHEMATICS RESEARCH FORUM & the celebration of NATIONAL MATHEMATICS DAY	National	22 <sup>nd</sup> December, 2021	Organizing secretary	Mathematics department, NIT Trichy
MRF Lecture Series	National	Thursday seminars; January to May, AY- 2021-2022	Organizer	Mathematics department, NIT Trichy

18. Invited Talks delivered

Topic	Date	Inviting Organization
Application of Differential and Integral Calculus in Engineering	18/9/2021	Saveetha Engineering College, Chennai- 602105

19. Membership of Learned Societies

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Type of Membership (Ordinary Member/ Honorary Member / Life Member )	Organization	Membership No. with date

20. Academic Foreign Visits

Country	Duration of Visit	Programme

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
S. R. Manam and M. Sivanesan	Scattering of water waves by vertical porous barriers An analytical approach	Wave motion	67	89-101	2016	
S. R. Manam and M. Sivanesan	A note on the explicit solutions for wave scattering by vertical porous barriers	Wave motion	69	81-90	2017	
M. Sivanesan and S. R. Manam	Water wave scattering by a vertical porous barrier with two gaps	ANZIAM Journal	61	47-63	2019	

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
M. Sivanesan	Wave motion due to rolling of a surface piercing porous plate	International conference on application of fluid dynamics	-	Application of fluid dynamics	VIT Vellore	2018

(C) Books & Monographs

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

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		Publishers	Publication	Number