

National Institute of Technology, Tiruchirappalli

Curriculum Vitae



1. Name: Dr. Jakkepalli Pavan Kumar
2. Designation: Assistant Professor
3. Office Address: #303, 2nd Floor, Dept. Of CSE, NIT Tiruchirappalli
4. Telephone (Direct) (Optional):
Telephone : - Extn (Optional): -
Mobile : +91-9492877987
5. Email (Primary): pavan@nitt.edu Email (Secondary) : jp.nitw@gmail.com
6. Field(s) of Specialization: Graph Theory, Algorithms, Computational Complexity
7. Employment Profile

Job Title	Employer	From	To
Assistant Professor	National Institute of Technology, Tiruchirappalli	Sept, 2022	Till date
Associate Professor	Matrusri Engineering College, Hyderabad	Feb, 2022	Sept, 2022
Assistant Professor	ICFAI Foundation for Higher Education, Hyderabad	Feb, 2021	Feb, 2022
Assistant Professor	Kakatiya Institute of Technology & Science, Warangal	Mar, 2020	Jan, 2021
Research Scholar	National Institute of Technology, Warangal	July, 2015	Mar, 2020
Assistant Professor	Malla Reddy Engineering College, Secunderabad	Oct, 2011	June, 2015

8. Academic Qualifications:

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D	NIT, Warangal	2020	-	CSE
M.Tech	JNTU, Hyderabad	2012	First Class Distinction	CSE
B.Tech	JNTU, Hyderabad	2009	First Class Distinction	CSE
Intermediate	Board of Intermediate, Andhra Pradesh	2005	First Class	Maths, Physics, Chemistry
SSC	Board of Secondary Education, A.P.	2003	First Class	-

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9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
Time-Table Coordinator for the CSE Department	Malla Reddy Engineering College, Secunderabad.	May, 2013	June, 2015
Boys Hostel Warden	ICFAI Foundation for Higher Education, Hyderabad	March, 2021	February, 2022
Nucleus Member of Student Affairs	ICFAI Foundation for Higher Education, Hyderabad	February, 2021	February, 2022

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)

13. Details of Academic Work

- (i) Curriculum Development
- (ii) Courses taught at Postgraduate and Undergraduate levels
- (iii) Projects guided at Postgraduate level
- (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

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

Year	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
2020	Recent Trends in Domination in Graphs: Algorithms, Complexity and Applications	National	Participant	NIT Warangal	NIT Warangal
2017	ADMA Pre-Conference School on "Graph Algorithms"	National	Participant	SSN College of Engineering	SSN College of Engineering, Chennai
2016	Pedagogical Skills for Teacher Aspirants in Science and Engineering Education	National	Participant	PMMMNMTT, MHRD, Govt. of India	NIT Warangal
2013	Master Training Program by NASSCOM	National	Participant	TEQIP-II, JNUTH CEH	JNTUCEH / Hyderabad
2011	ACM Annual Meeting	National	Participant	ACM	ISB, Hyderabad

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
Current Research Trends in Computer Science (CRTCS)	National	29 th Jul, 2020 to 02 nd Aug, 2020.	Coordinator	KITS, Warangal
Block chain Architecture, Ethereum and Hyperledger (BAEH'20)	National	8 th Jul, 2020 to 12 th Jul, 2020	Organizing Committee	KITS, Warangal

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18. Invited Talks delivered

Topic	Date	Inviting Organization
Web Technologies	23 rd December, 2021	BV Raju Institute of Technology, Narasapur.

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No.
Life Member	International Association of Engineers (IAENG)	270645
Life Member	Academy of Discrete Mathematics and Applications	jp.nitw
Life Member	The Society of Digital Information and Wireless Communications (SDIWC)	28979
Life Member	Institute of Research Engineers and Doctors IRED	SNM2020102483

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
Jakkepalli Pavan Kumar, P. Venkata Subba Reddy	Algorithmic Aspects of 2-Secure Domination in Graphs	Journal of Combinatorial Optimization	42	56-70	2021
Jakkepalli Pavan Kumar, P. Venkata Subba Reddy	Algorithmic Aspects of Secure Connected Domination in Graphs	Discussiones Mathematicae Graph Theory	41(4)	1179-1197	2021
Jakkepalli Pavan Kumar, P. Venkata Subba Reddy	Algorithmic Aspects of Some Variants of Domination in Graphs	Analele Universitatii "Ovidius" Constanta-Seria Matematica	28(3)	153-170	2020
Jakkepalli Pavan Kumar, P. Venkata Subba Reddy, S. Arumugam	Algorithmic Complexity of Secure Connected Domination in Graphs	AKCE International Journal of Graphs and Combinatorics	17(3)	1010-1013	2020
Jakkepalli Pavan Kumar, P. Venkata Subba Reddy, Himanshu K, S. Arumugam	Algorithmic Aspects of Certified Domination in Graphs	Communications in Combinatorics and Optimization	7(2)	247-255	2022
Jakkepalli Pavan Kumar, P. Venkata Subba Reddy	Algorithmic Complexity of Isolate Secure Domination in Graphs	TWMS Journal of Applied and Engineering Mathematics	11(Special Issue)	188-194	2021

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A Sharma, Jakkepalli Pavan Kumar, P. Venkata Subba Reddy, S. Arumugam	Algorithmic Aspects of Outer- Independent Roman Domination in Graphs	Discrete Mathematics, Algorithms and Applications	14(5)	2250004- 1 to 2250004- 8	2022
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(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page no.	Conference Theme	Venue	Year
Jakkepalli Pavan Kumar, P. Venkata Subba Reddy	Algorithmic Complexity of Isolate Secure Domination in Graphs	Proceedings of ICGTA-19	49	International Conference on Graph Theory and its Applications	SSN College of Engineering, Chennai	2019
J. Pavan Kumar, Madhuri Birthare	A Note on Foolproof Secure Domination in Graphs	Proceedings of 13th Annual ADMA Conference	81	13th Annual ADMA Conference & Graph Theory Day- XIII	SSN College of Engineering, Chennai	2017
D. Lad, P. Venkata Subba Reddy, and J. Pavan Kumar	Complexity Issues of Variants of Secure Domination in Graphs	Electronic Notes in Discrete Mathematics, Vol. 63	77- 84	International Conference on Current Trends in Graph Theory and Computation	South Asian University, New Delhi	2016

(C) Books & Monographs

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