

## STAFF PROFILE



**Dr. Swati Ajay Kulkarni**

Associate Professor

Applied Science & General Engineering

skulkarni@aitpune.edu.in

Date of Joining  
01/07/2012

Nature of Appointment  
Regular

### Educational Details

Qualification	Degree	University	Grade	Year
Graduation	BE	Shivaji	72.25	1998
PG	ME	Pune	62.10	2004
Doctoral	PhD	SVNIT	10	2015

### Areas of Interest

### Experience Details

Total : 16.50 years		Teaching : 12.70 years		Research : 2.00 years		Industry : 1.80 years	
Type	Duration/ Period	Designation/ Organisation Name		Brief Job Profile			
Industrial	1.80 Years Aug 1998 to pril 2000	Civil Engg M/S Waichal & Waichal, Kolhapur		Structural Design Engineer			
Educational	4.00 Years Mar 2001 to Aug 2004	Visiting Faculty D Y Patil College of Architecture, Akurdi		Teaching			
Educational	2.30 Years Mar 2006 to June 2008	Lecturer D Y Patil College of Engineering, Akurdi		Teaching			
Educational	2.00 Years July 2008 to July 2010	Lecturer Army Institute of Technology, Dighi		Teaching			
Research	2.00 Years Aug 2010 to June2012	Research Scholar SVNIT, Surat		Full time Research Scholar			
Educational	2.40 Years July 2012 to Nov 2015	Assitant Professor Army Institute of Technology, Dighi		Teaching			
Educational	2.00 Years Dec 2015 to till date	AssociateProfessor Army Institute of Technology, Dighi		Teaching			

### Journal Publications

- Ms Mridula Chandola Dr Sujata Marathe Dr Swati Kulkarni, (2020). [Challenges in Engineering Education in India During The Time of Corona Virus Pandemic and The Consequent Total Lockdown](http://s3-ap-southeast-1.amazonaws.com/ijmer/pdf/volume9/volume9-issue6(4)-2020.pdf). *International Journal of Multidisciplinary Educational Research*. 9(4), 161-170. ISBN/ ISSN No : ISSN : 2277 – 7881. URL : [http://s3-ap-southeast-1.amazonaws.com/ijmer/pdf/volume9/volume9-issue6\(4\)-2020.pdf](http://s3-ap-southeast-1.amazonaws.com/ijmer/pdf/volume9/volume9-issue6(4)-2020.pdf).
- Swati Ajay Kulkarni, (2019). [Study of steel moment connection with and without reduced beam section](http://www.ijmer.com/papers/Vol9-Issue1/190101-190101.pdf). *Case Studies in Structural Engineering*. 1(1), 26-31. ISBN/ ISSN No : 2214-3998. URL :

<https://www.sciencedirect.com/science/article/pii/S2214399814000058>.

3. Dr Swati Ajay Kulkarni, (2019). A Study of Reduced Beam Section Profiles using Finite Element Analysis. *IOSR Journal of Mechanical and Civil Engineering*. 6(4), 01-06. ISBN/ ISSN No : 2278-1684. URL : [www.iosrjournals.org](http://www.iosrjournals.org).
4. Dr Swati Ajay Kulkarni, (2019). Parallel Flange Sections- For Modern Structures. *Steel Structures and Metal Buildings*. 4(4), 30-31. ISBN/ ISSN No : ..
5. Dr Swati Ajay Kulkarni, (2018). Behavior of Reduced Beam Section Moment Connection with Varying Thickness of Continuity Plate. *International Journal of Sustainable Construction Engineering and Technology*. 8(1), 77-83. ISBN/ ISSN No : 2180-3242. URL : [ijscet@uthm.edu.my](mailto:ijscet@uthm.edu.my).
6. Dr Swati Ajay Kulkarni, (2018). [Behavior of reduced beam section moment connection with reference to continuity plates state of the art review](#). *Journal of Structural Engineering (JoSE), CSIR, SERC, Chennai*. 39(5), 583-592. ISBN/ ISSN No : 2180-3242. URL : <http://penerbit.uthm.edu.my/ojs/index.php/IJSCET>.
7. Dr Swati Ajay Kulkarni, (2018). Reduced beam section moment connection for seismic applications- An overview. *Civil Engineering & Construction Review*. 25(6), 114-117. ISBN/ ISSN No : ..
8. Dr Swati Ajay Kulkarni, (2018). Reduced beam section moment connection with reference to boiled web state of the art review. *Institution of Engineers India PLC Journal*. 37(1), 32-37. ISBN/ ISSN No : ..
9. Dr Swati Ajay Kulkarni, (2018). A Software Solution to Help Design Steel Beam to Column Connection. *Journal of Environmental science, computer science and engineering & technology (JECET)*. 3(1), 175-185. ISBN/ ISSN No : ..
10. Dr Swati Ajay Kulkarni, (2018). Suitability of indian hot - rolled parallel flange sections for use in seismic steel moment resisting frames. *International Journal of Sustainable Construction Engineering & Technology*. 3(1), 65-78. ISBN/ ISSN No : 2600-7959.
11. Dr Swati Ajay Kulkarni, (2018). Modern Strengthening Strategies for Steel Moment Resisting Frames: State of the Art Review. *Civil and Environmental Research (IISTE)*. 3(7), 137-144. ISBN/ ISSN No : 2224-5790. URL : [www.iiste.org](http://www.iiste.org).

## Conference Publications

1. Dr Swati Ajay Kulkarni, (2019). Parallel Flange I Beam Sections - Theoretical Study and Finite Element Analysis. *Advances in Structural Engineering*. .(.), 559-566. ISBN/ ISSN No : 978-81-322-2190-6.
2. Dr Swati Ajay Kulkarni, (2018). Structural Analysis I. *Civil Engg, Sem 4* .(.), .. ISBN/ ISSN No : 978-93-87656-03-1.
3. Dr Swati Ajay Kulkarni, (2018). Comparison of Moment Connections Reinforced with Various Vertical Rib Plates. *International Conference ( ACSGE 2018 )* .(.), .. ISBN/ ISSN No : ..
4. Dr Swati Ajay Kulkarni, (2015). Study of Special Moment Frame & Reduced Beam Section Connection For Indian Profiles . *International joint colloquiums on computer electronics electrical mechanical and civil -2015* .(.), .. ISBN/ ISSN No : ..
5. Dr Swati Ajay Kulkarni, (2014). Parallel Flange I Beam Sections - Theoretical Study and Finite Element Analysis. *Structural Engineering Convention - 2014* .(.), .. ISBN/ ISSN No : ..
6. Dr Swati Ajay Kulkarni, (2014). Comparative study of hot rolled parallel flange with respect to tapered flange I - beam sections. *Jindal Structural Designers Meet* .(.), .. ISBN/ ISSN No : ..
7. Dr Swati Ajay Kulkarni, (2014). Finite Element Analysis of Reduced Beam Section Moment Connections - Application to Indian Profile. *IC VISA 2014 : XI International Conference on Vibro Impact Systems and Applications* .(.), .. ISBN/ ISSN No : ..
8. Dr Swati Ajay Kulkarni, (2013). Continuity Plates Requirement to Reduced Beam Section based on Column Web Thickness - to - Depth Ratio for Indian Profiles. *First International Conference on Emerging Trends in Engineering and Technology - 2013* .(.), .. ISBN/ ISSN No : ..
9. Dr Swati Ajay Kulkarni, (2013). Comparative Study of Steel Beam Column Connection with and without Reduced Beam Section Moment Connection for Indian Profiles. *4 th Nirma University International Conference on Engineering - NUiCONE : 13* .(.), .. ISBN/ ISSN No : ..
10. Dr Swati Ajay Kulkarni, (2013). Reduced beam section moment connection with reference to bolted web state - of - the - art review . *Annual Technical Paper Meet - 2013* .(.), .. ISBN/ ISSN No : ..
11. Dr Swati Ajay Kulkarni, (2012). Suitability Deep Slender Indian Parallel Flange I Sections for Reduced Beam Section Moment Connection. *Structural Engineering Convention - 2012 SVNIT* .(.), .. ISBN/ ISSN No : ..
12. Dr Swati Ajay Kulkarni, (2012). Comparative study of hot rolled parallel flange I - beam sections with respect to tapered flange I - beam sections. *Structural Stability and Dynamics , MNIT* .(.), .. ISBN/ ISSN No : ..
13. Dr Swati Ajay Kulkarni, (2011). Cyclic Performance of Steel Moment Resisting Connections with Reduced Beam Sections - Finite Element Method. *ANSYS Academic Users Conference* .(.), .. ISBN/ ISSN No : ..
14. Dr Swati Ajay Kulkarni, (2011). Study of Reduced Beam Section Profiles using Non -Linear Finite Element Analysis. *Natioanl Conference on Advances in Steel Structures , SVNIT* .(.), .. ISBN/ ISSN No : ..
15. Dr Swati Ajay Kulkarni, (2008). Analysis of Geodesic Domes. *Innovative and Smart Structural Systems for Sustainable Habitat ( INSHAB 2008 )* .(.), .. ISBN/ ISSN No : ..

## Book Chapters

1. Swati Ajay Kulkarni, (2014). [Parallel Flange I-Beam Sections—Theoretical Study and Finite Element Analysis](#). *Advances in Structural Engineering*. Springer. ISBN/ ISSN No : 978-81-322-2189-0.

## Books

1. Dr Swati Ajay Kulkarni and Dr Deepa Joshi, (2018). *Structural Analysis I*. Techmax. ISBN/ ISSN No : 978-93-87656-03-1.

## Research Grants

Title Of Project	Funding Agency	Duration	Sanctioned Amount	Role of Investigator
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## Consultancy

Title Of Project	Funding Agency	Duration	Sanctioned Amount	Investigator Role
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## Professional Memberships

Society	Membership No	Duration	
The Institution of Engineers (India)	G-546553-3	24/12/2008	16/09/2020
The Indian Society for Technical Education	LM 54327	01/09/2020	16/09/2020
India Chapter of American Concrete Institute	LM-07-070	29/09/2007	16/09/2020

## Achievements/ Contribution

Year	Details
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**No of PhD Students Guided** : 0      **No of PG Students Guided** : 0  
**No of PhD Awarded Students** : 0