SRES', Sanjivani College of Engineering, Kopargaon

(An Autonomous Institute affiliated to SPPU, Pune)

Staff Profile

Personal Information	
Name of Teaching Staff: (Dr.) Atteshamuddin S. Sayyad	
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Education Details

Qualification	Specialization with Class or Grade	University	Year
UG	Civil Engineering	Pune University	2003
PG	Structural Engineering	Dr. B.A.M.U.	2006
Ph.D.	Structural Engineering	Dr. B.A.M.U.	2011

Total experience in years:

Teaching:	**16 years**
Industry:	**-**

Research and Publications

Year 2022

1) Sayyad A.S. and Avhad P. V. A new higher order shear and normal deformation theory for the free vibration analysis of sandwich curved beams. *Composite Structures* 280, 114948, 2022, **(SCI Indexed)** https://doi.org/10.1016/j.compstruct.2021.114948
2) Shinde B. M. and Sayyad A.S. A new higher order shear and normal deformation theory for FGM sandwich shells. *Composite Structures* 280, 114865, 2022, **(SCI Indexed)** https://doi.org/10.1016/j.compstruct.2021.114865
3) Shinde B. M. and Sayyad A.S. A new higher-order shear and normal deformation theory for the free vibration analysis of laminated shells. *Mechanics of Advanced Composite*

Structures, 2022, (Web of Science and SCOPUS Indexed) https://dx.doi.org/10.22075/macs.2022.22741.1327

4) Avhad P. V. and Sayyad A.S. On the deformation of laminated composite and sandwich curved beams. Curved and Layered Structures 9 (1), 1-12, 2022, **(SCI Indexed)** https://doi.org/10.1515/cls-2022-0001

Year 2021

5) Sayyad A.S. and Ghumare S.M. Thermomechanical Bending Analysis of FG Sandwich Plates Using a Quasi-Three-Dimensional Theory. ASCE *Journal of Aerospace Engineering*, 34 (3), 04021007, 2021, DOI: 10.1061/(ASCE)AS.1943-5525.0001249 (SCI Indexed)

6) Sayyad A.S. and Ghugal Y.M. Interlaminar Stress Analysis of Orthotropic Laminated Doubly-Curved Shells on Rectangular Planform under Concentrated Force. *ASCE Journal of Aerospace Engineering*, 34 (2), 04020116, 2021, DOI: 10.1061/(ASCE)AS.1943-5525.0001237 (SCI Indexed)

7) Sayyad A.S. and Ghugal Y.M. Static and free vibration analysis of doubly-curved functionally graded material shells. *Composite Structures*, 269 (2021) 114045. (SCI Indexed)

8) Sayyad A.S. and Ghugal Y.M. A unified five-degree-of-freedom theory for the bending analysis of softcore and hardcore functionally graded sandwich beams and plates. *Journal of Sandwich Structures & Materials*, 2021, Vol. 23(2) 473–506. (SCI Indexed)

9) Avhad P.V. and Sayyad A.S. Free vibration analysis of laminated curved beams using fifth-order shear and normal deformation theory. *Advances in Materials Processing and Manufacturing, Applications, Lecture Notes in Mechanical Engineering*, 319-326, https://doi.org/10.1007/978-981-16-0909-1_32 (SCOPUS Indexed)

10) Sayyad A.S. and Ghugal Y.M. Bending, buckling, and vibration analysis of functionally graded nanobeams using an inverse trigonometric beam theory, *Int. J. Nano Dimens.*, 12 (2): 164-174, Spring 2021 (Web of Science Indexed)

11) Bharti M. Shinde and Atteshamuddin S. Sayyad, A new higher-order theory for the static and dynamic responses of sandwich FG plates. *Journal of Computational Applied Mechanics,* 2021, 52(1), 10.22059/jcamech.2020.313152.569 (SCOPUS Indexed)

12) Naik N.S. and Sayyad A.S. Higher-order Displacement Model for Cylindrical Bending of Laminated and Sandwich Plates Subjected to Environmental Loads. *Mechanics of Advanced Composite Structures*, 8 (2021) 185 – 201. (SCOPUS Indexed)

Year 2020

13) Sayyad A.S. and Ghugal Y.M. On the buckling analysis of functionally graded sandwich

beams using a unified beam theory *Journal of Computational Applied Mechanics*51 (2), 443-453, 2020,DOI: 10.22059/jcamech.2020.310180.557 (Web of Science Indexed)

14) Sayyad A.S. and Ghugal Y.M. On the buckling of advanced composite sandwich rectangular plates *Journal of Sandwich Structures & Materials* 0(0), 1-30, 2020,DOI: 10.1177/1099636220925084 (SCI Indexed)

15) Sayyad A.S. and Ghugal Y.M. Bending, Buckling and Free Vibration Analysis of Size-Dependent Nanoscale FG Beams Using Refined Models and Eringen's Nonlocal Theory *International Journal of Applied Mechanics* 12 (1), 2050007, 2020, DOI: 10.1142/s1758825120500076, (SCI Indexed)

16) Sayyad A.S. and Ghugal Y. M. Stress analysis of laminated composite and sandwich cylindrical shells using a generalized shell theory. *Composite Materials and Engineering* 2 (2), 103-124, 2020.

17) Sayyad A.S. and Ghugal Y.M. Analytical solutions for the flexure analysis of advanced composite arches. *International Journal of Bridge Engineering* 8(1), 53-70 2020. (Web of Science Indexed)

18) Sayyad A.S. and Shaikh A.S. Estimation of deflections in cantilever and fixed castellated beams with hexagonal, square and circular opening. *TECNICA ITALIANA- Ittalian Journal of Engineering Science* 64(1), 118-127, 2020.

19) Avhad P.V. and Sayyad A.S. On the static deformation of FG sandwich beams curved in elevation using a new higher order beam theory. *Sādhanā*45 (1), 1-16,2020, DOI: 10.1007/s12046-020-01425-y, (SCI Indexed)

20) Shinde B.M. and Sayyad A.S. Thermoelastic analysis of laminated composite and sandwich shells considering the effects of transverse shear and normal deformations. *Journal of Thermal Stresses* 43 (10), 1234-1257, 2020,DOI: 10.1080/01495739.2020.1786484, (SCI Indexed)

21) Naik N.S. and Sayyad A.S. Analysis of laminated plates subjected to mechanical and hygrothermal environmental loads using fifth-order shear and normal deformation theory. *International Journal of Applied Mechanics* 12(3), 1-51, 2020, DOI: 10.1142/s1758825120500283, (SCI Indexed)

22) Shinde B.M. and Sayyad A.S. Analysis of laminated and sandwich spherical shells using new higher-order theory. *Advances in Aircraft and Spacecraft Science* 7(1), 19-40, 2020, DOI: 10.12989/AAS.2020.7.1.019, (SCOPUS Indexed)

23) Avhad P.V. and Sayyad A.S. Static analysis of functionally graded composite beams curved in elevation using higher-order shear and normal deformation theory. Materials Today: Proceeding, 21, 1195-1199, 2020, DOI: 10.1016/j.matpr.2020.01.069.(Web of Science, SCOPUS Indexed)

24) Naik N.S. and Sayyad A.S. 1-D Thermal analysis of laminated composite and sandwich

plates using a new fifth-order shear and normal deformation theory. Materials Today: Proceeding, 21, 1084-1088, 2020, DOI: 10.1016/j.matpr.2020.01.009. (Web of Science, SCOPUS Indexed)

25) Ghumare S.M. and Sayyad A.S. Analytical solution using fifth-order shear and normal deformation theory for FG plates resting on elastic foundation subjected to hygro-thermo-mechanical load. Materials Today: Proceeding, 21, 1089-1093, 2020, DOI: 10.1016/j.matpr.2020.01.010. (Web of Science, SCOPUS Indexed)

26) Shinde B.M. and Sayyad A.S. Static deformation of orthotropic spherical shell using fifth-order shear and normal deformation theory. Materials Today: Proceeding, 21, 1123-1127, 2020, DOI: 10.1016/j.matpr.2020.01.060. (Web of Science, SCOPUS Indexed)

27) Ghumare S.M. and Sayyad A.S. Analytical solutions for the hygro-thermo-mechanical bending of FG beams using a new fifth order shear and normal deformation theory *Applied and Computational Mechanics* 14(1), 2020, DOI: 10.24132/acm.2020.580, (SCOPUS Indexed)

28) Naik N.S. and Sayyad A.S. Higher-Order Displacement Model for Cylindrical Bending of Laminated and Sandwich Plates Subjected to Environmental Loads. *Mechanics of Advanced Composite Structures*2020, DOI: 10.22075/macs.2020.20242.1253, (SCOPUS Indexed)

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29) Sayyad A.S. "Static and free vibration analysis of laminated composite and sandwich spherical shells using a generalized higher-order shell theory" *Composite Structure*, Vol. 219, 2019, 129-146, DOI: 10.1016/j.compstruct.2019.03.054, Impact Factor: 4.101.(SCI Indexed)

30) Sayyad A.S. and Ghugal Y.M. A sinusoidal beam theory for functionally graded sandwich curved beams. *Composite Structures* 226, 111246,2019, DOI: 10.1016/j.compstruct.2019.111246, (SCI Indexed)

31) Sayyad A. S. and Avhad P. "On the static bending, buckling and free vibration analysis of symmetric functionally graded sandwich beams" *Journal of Solid Mechanics*, Vol.11 (1), 2019, pp.166-180.DOI: 10.22034/JSM.2019.664227, (SCI Indexed)

32) Sayyad A. S. and Naik N. S. "New displacement model for accurate prediction of transverse shear stresses in laminated and sandwich rectangular plates", *ASCE Journal of Aerospace Engineering*, DOI: 10.1061/(ASCE)AS.1943-5525.0001074, (SCI Indexed)

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(SCI Indexed)

34) Sayyad A.S. and Ghugal Y.M. "Effects of non-linear hygrothermomechanical loading on bending of FGM rectangular plates resting on two parameter elastic foundations using four unknown plate theory", *Journal of Thermal Stresses*, 42 (2), 213-232, 2019. DOI: 10.1080/01495739.2018.1469962., (SCI Indexed)

35) Ghumare S.M. and Sayyad A.S. Analysis of functionally graded plates resting on elastic foundation and subjected to non-linear hygro-thermo-mechanical loading. *JMST Advances*, 1, 233-248, 2019, (SCOPUS Indexed)

36) Ghumare S.M. and Sayyad A.S. Nonlinear Hygro-Thermo-Mechanical Analysis of Functionally Graded Plates Using a Fifth-Order Plate Theory *Arabian Journal for Science and Engineering* 2019, DOI: 10.1007/s13369-019-03894-8, (SCI Indexed)

37) Ghumare S.M. and Sayyad A.S. "A new quasi 3D model for functionally graded plates" *Journal of Applied and Computational Mechanics*, 5 (2), 2019, 367-380.DOI: 10.22055/JACM.2018.26739.1353, (Web of Science, SCOPUS Indexed)

38) Nikam R. D. and Sayyad A. S. "A unified nonlocal formulation for bending, buckling and free vibration analysis of nanobeams" Mechanics of Advanced Materials and Structures, Taylor and Francis, 2019 pp.1-10, DOI: 10.1080/15376494.2018.1495794., (SCI Indexed)

39) Naik N. S. and Sayyad A. S. "An accurate computational model for thermal analysis of laminated composite and sandwich plates." *Journal of Thermal Stresses*, Taylor and Francis, Vol. 42 (5), pp.559-579, 2019, DOI: 10.1080/01495739.2018.1522986, (SCI Indexed)

40) Sayyad A.S. and Shaikh A.S. "Structural Analysis of Castellated Beam in Cantilever & Fixed Action." Journal of Emerging Technologies and Innovative Research 6 (5), 114-119, 2019.

Year 2018

41) Sayyad A.S. and Ghugal Y.M. Analytical solutions for bending, buckling, and vibration analyses of exponential functionally graded higher order beams" Asian Journal of Civil Engineering, Vol.5, 2018, pp.1-17.DOI: 10.1007/s42107-018-0046-z, (SCOPUS Indexed)

42) Sayyad A.S. and Ghugal Y.M. An inverse hyperbolic theory for FG beams resting on Winkler-Pasternak elastic foundation" *Advances in Aircraft and Spacecraft Science*, 5(6), 2018, 671-689. DOI: 10.12989/aas.2018.5.6.671, (SCOPUS Indexed)

43) Sayyad A.S. and Ghugal Y.M. "Effect of thickness stretching on the static deformations, natural frequencies, and critical buckling loads of laminated composite and sandwich

beams," 2018,*Journal of the Brazilian Society of Mechanical Sciences and Engineering*, 40(6), 2018, 1-16, DOI: 10.1007/s40430-018-1222-5, (SCI Indexed)

44) Sayyad A. S. and Ghugal Y.M. "Bending of shear deformable plates resting on Winkler foundations according to trigonometric plate theory" *Journal of Applied Computational Mechanics*, Vol.4 (3), 2018, pp. 187-201.DOI: 10.22055/JACM.2017.23057.1148, (Web of Science, SCOPUS Indexed)

45) Sayyad A.S. and Ghugal Y.M. "Bending, buckling and free vibration responses of hyperbolic shear deformable FGM beams," *Mechanics of Advanced Composite Structures*, Impact Factor 0.64, 2018, Vol. 5, pp.13-24., (SCOPUS Indexed)

46) Naik N. S. and Sayyad A. S. 1D analysis of Laminated composites and Sandwich Plates using a new fifth order plate theory, *Latin American Journal of Solids and Structures*, Impact Factor 1.114, 2018, Vol.15, Issue 1,pp.1-17., (Web of Science, SCOPUS Indexed)

47) Naik N. S. and Sayyad A. S. "2D analysis of laminated composite and sandwich plates using new fifth order theory." *Latin American Journal of Solids and Structure*, Vol 15 (9), 114-125, 2018. DOI: 10.1590/1679-78254834, Impact factor: 1.411., (Web of Science, SCOPUS Indexed)

48) Shinde P.N., Patankar S.V and Sayyad A.S. "Investigation on effects of fineness of flyash and alkaline ratio on mechanical properties of geopolymer concrete." Research on Engineering Structures & Materials 4 (1), 61-71, 2018.

Year 2017

49) Sayyad A.S. and Ghugal Y.M. "Bending, buckling and free vibration of laminated composite and sandwich beams: A critical review of literature." *Composite Structures*, Vol. 171, pp. 486-504, 2017. DOI: 10.1016/j.compstruct.2017.03.053, Elsevier, Impact Factor: 3.858., (SCI Indexed)

50) Sayyad A. S. and Ghugal Y. M. "On the free vibration of angle-ply laminated composite and soft core sandwich plates." *Journal of Sandwich Structures and Materials*, 19(6), 2017, 679–711, DOI: 10.1177/1099636216639000, Sage Publication, Impact Factor: 5.616., (SCI Indexed)

51) Sayyad A.S. and Ghugal Y.M. "A Unified Shear Deformation Theory for the Bending of Isotropic, Functionally Graded, Laminated and Sandwich Beams and Plates". *International Journal of Applied Mechanics,* Vol. 9, No. 1, pp. 1-36, 2017. DOI: 10.1142/S1758825117500077, World Scientific, Impact Factor: 1.954., (SCI Indexed)

52) Shinde B. M. and Sayyad A. S. "A Quasi- 3D Polynomial shear and normal deformation theory for laminated composite, sandwich and functionally graded beams," Mechanics of Advanced Composite Structures, 2017, Vol.4, pp.139-152.DOI:

10.22075/macs.2017.10806.1105, (SCOPUS Indexed)

53) Ghumare S. M. and Sayyad A. S. A new fifth-order shear and normal deformation theory for static bending and elastic buckling of P-FGM beams. *Latin American Journal of Solids and Structures*, Vol 15 (9), 114-125, 2017. DOI: 10.1590/1679-78253972 Impact factor: 1.411.,(Web of Science, SCOPUS Indexed)

54) Nikam R. D. and Sayyad A. S. "Free vibration of functionally graded nanobeams using a new nonlocal trigonometric shear deformation theory." International Conference on Composite Materials and Structures 1 (1), 1-7, 2017.

55) Sayyad A.S. and Ghugal Y.M. "Single variable refined beam theories for the bending, buckling and free vibration of homogenous beams." *Applied and Computational Mechanics*, Vol.10, pp.123–138, 2016.(SCOPUS Indexed)

Year 2016

56) Sayyad A.S., Shinde B.M. and Ghugal Y.M. Bending, "Vibration and Buckling of Laminated Composite Plates Using a Simple Four Variable Plate Theory." *Latin American Journal of Solids and Structures*, Vol. 13, pp. 516-535, 2016. DOI: 10.1590/1679-78252241, Impact Factor: 1.411, (Web of Science, SCOPUS Indexed)

57) Sayyad A. S. and Ghugal Y. M. "Cylindrical bending of multi-layered composite laminates and sandwiches". *Advances in Aircraft and Spacecraft Sciences*, Vol. 3, No. 2 pp. 113-148, 2016. DOI: 10.12989/aas.2016.3.2.113, Techno Press Publication.(SCOPUS Indexed)

58) Sayyad A.S., Shinde B.M. and Ghugal Y.M. "Thermal stress analysis of laminated composite plates using exponential shear deformation theory." *International Journal of Automotive Composites*, Vol. 2, No. 1 pp. 23-40, 2016, DOI: 10.1504/ijautoc.2016.078100, (SCOPUS Indexed)

Year 2015

59) Sayyad A. S. and Ghugal Y. M. "On the free vibration analysis of laminated composite and sandwich plates: A review of recent literature with some numerical results." *Composite Structures*, Vol. 129, pp. 177-201, 2015. DOI: 10.1016/j.compstruct.2015.04.007, Elsevier, Impact Factor: 3.858., (SCI Indexed)

60) Sayyad A. S. and Ghugal Y. M. "A Four Variable Plate Theory for Thermo-elastic Bending Analysis of Laminated Composite Plates." *Journal of Thermal Stresses*, Vol.38, pp. 904–925, 2015. DOI: 10.1080/01495739.2015.1040310, Taylor and Francis, Impact Factor: 1.169., (SCI Indexed)

61) Sayyad A. S. and Ghugal Y. M. "A *n*th-order shear deformation theory for composite laminates in cylindrical bending." *Curved and Layered Structures*, Vol. 2, No. 1, pp. 290–300, 2015.DOI: 10.1515/cls-2015-0016, (Web of Science, SCOPUS Indexed)

62) Sayyad A. S., Ghugal Y. M. and Naik N. S. "Bending analysis of laminated composite and sandwich beams according to refined trigonometric beam theory." *Curved and Layered Structures.* Vol. 2, No. 1, pp. 279-289, 2015.DOI: 10.1515/cls-2015-0015, (Web of Science, SCOPUS Indexed)

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65) Sayyad A. S. and Ghugal Y. M. "Static Flexure of Soft Core Sandwich Beams using Trigonometric Shear Deformation Theory," *Mechanics of Advanced Composite Structures*. Vol. 2, pp. 45-53, 2015, DOI: 10.22075/macs.2015.331, (SCOPUS Indexed)

66) Shinde B. M., Sayyad A. S. and Ghumare S. M., " A refined shear deformation theory for bending analysis of isotropic and orthotropic plates under various loading conditions," *Journal of Materials and Engineering Structures*, vol.2, pp. 3-15, 2015., (Web of Science Indexed)

67) Sayyad A. S., Ghumare S. M., B. M. Shinde and Naik N. S. , "Cylindrical bending of laminated composite plates using refined shear deformation theory", *Journal of Applied and Experimental Mechanics*, Vol.1 (1), pp. 10-17, 2015.

Year 2014

68) Sayyad A. S. and Ghugal Y. M. , "On the Buckling of Isotropic, Transversely Isotropic and Laminated Composite Rectangular Plates," *International Journal of Structural Stability and Dynamics.* Volume 14, No. 6, 2014, pp. 1- 32.DOI: *10.1142/S0219455414500205* World Scientific, Impact Factor: 1.617., (SCI Indexed)

69) Sayyad A. S. and Ghugal Y. M. "Buckling and Free Vibration Analysis of Orthotropic Plates by using Exponential Shear Deformation Theory" *Latin American Journal of Solids and Structures*, Vol.11, No. 8, pp. 1298-1314, 2014.DOI: 10.1590/S1679-78252014000800001, Impact Factor: 1.411, (Web of Science, SCOPUS Indexed)

70) Sayyad A. S. and Ghugal Y. M. "Flexure of Cross-ply Laminated Plates using Equivalent Single Layer Trigonometric Shear Deformation Theory," *Structural Engineering and Mechanics, An International Journal*, Vol. 51, No. 5, pp. 867-891, 2014*. DOI: 10.12989/sem.2014.51.5.867,* Techno Press Impact Factor: 1.118.(Web of Science, SCOPUS Indexed)

71) Sayyad A. S. and Ghugal Y. M. "A New Shear and Normal Deformation Theory for Isotropic, Transversely Isotropic, Laminated Composite and Sandwich Plates" *International Journal of Mechanics and Materials in Design.* Vol. 10, No. 3, pp. 247-267, 2014. DOI: 10.1007/s10999-014-9244-3, Springer, Impact Factor: 2.102., (SCI Indexed)

72) Sayyad A. S., Ghugal Y. M. and R.R. Borkar "Flexural Analysis of Fibrous Composite Beams under Various Mechanical Loadings using Refined Shear Deformation Theories" *Composites: Mechanics, Computations Applications*. *An International Journal*, Vol. 5, No. 1, pp. 1-19, 2014.DOI: 10.1615/CompMechComputApplIntJ.v5.i1.10, (SCOPUS Indexed)

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Year 2013

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76) Ghugal Y. M. and Sayyad A. S., "Static Flexure of Thick Orthotropic Plates Using Trigonometric Shear Deformation Theory", *Journal of Structural Engineering*, 2013, 39(5), pp. 512-521,

77) Sayyad A. S. "Flexure of thick orthotropic plates by exponential shear deformation theory" *Latin American Journal of Solids and Structures*, Vol.10, pp. 473-490, 2013. DOI: 10.1590/S1679-78252013000300002, Impact Factor: 1.411, (Web of Science, SCOPUS Indexed)

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79) Sayyad A.S., Shinde B.M. and Ghugal Y.M. "Thermo-elastic Bending Analysis of Orthotropic Plates using Hyperbolic Shear Deformation Theory. *Composites: Mechanics, Computations Applications*. *An International Journal*, Vol. 4, No. 3, pp. 257-278, 2013.*DOI: 10.1615/CompMechComputApplIntJ.v4.i3.50,* (SCOPUS Indexed)

80) Sayyad A.S. and Patankar S.V. "Effect of Steel Fibres and Low Calcium Fly Ash on

Mechanical and Elastic Properties of Geopolymer Concrete Composites" *Indian Journal of Materials Scienc*e, Vol. 2013, pp. 1-8, 2013. DOI: 10.1155/2013/357563, (SCOPUS Indexed)

81) Sayyad A.S. and Patankar S.V. Effect of Stirrups Orientation on Flexural Response of RC Deep Beams. *American Journal of Civil Engineering and Architecture,* Vol. 1, No. 5, pp. 107-111, 2013*.*

82) Shinde B. M., Sayyad A. S., and Kawade A. B. "Thermal analysis of isotropic plates using hyperbolic shear deformation theory", *Applied and Computational Mechanics*, Vol.7, pp. 193-204, 2013, (SCOPUS Indexed)

83) BM Shinde, AB Kawade, AS Sayyad, "Thermal response of isotropic plates using hyperbolic shear deformation theory." International Journal of Advanced Technology in Civil Engineering 2 (1), 140-145, 2013

Year 2012

84) Sayyad A. S. and Ghugal Y. M. "Bending and Free Vibration Analysis of Thick Isotropic Plates by using Exponential Shear Deformation Theory" *Applied and Computational Mechanics*, Vol.6, No. 1, pp. 65-82, 2012.(SCOPUS Indexed)

85) Sayyad A. S. and Ghugal Y. M. "Buckling Analysis of Thick Isotropic Plates by using Exponential Shear Deformation Theory" *Applied and Computational Mechanics*, Vol. 6, No. 2, pp. 185-196, 2012*.* (SCOPUS Indexed)

86) Sayyad A. S. "Static flexure and free vibration analysis of thick isotropic beams using different higher order shear deformation theories" *International Journal of Applied Mathematics and Mechanics*, Vol. 8, No. 14, pp. 71-87, 2012.

87) UP Naik, AS Sayyad, PN Shinde, "Refined beam theory for bending of thick beams subjected to various loading." Elixir Appl. Math 43, 7004-7015, 2012

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88) Sayyad A. S. and Ghugal Y. M. Flexure of thick beams using new hyperbolic shear deformation theory. International Journal of Mechanics 5 (3), 113-122.(SCOPUS Indexed)

89) Ghugal Y. M. and Sayyad A. S. "Free Vibration of Thick Orthotropic Plates using Trigonometric Shear Deformation Theory". *Latin American Journal of Solids and Structures*, Vol. 8, No. 3, pp. 229-243, 2011. Impact Factor: 1.411, (Web of Science, SCOPUS Indexed)

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91) Sayyad A. S. and Ghugal Y. M. "Effect of Transverse Shear and Transverse Normal Strain on Bending Analysis of Cross-Ply Laminated Beams" *International Journal of Applied Mathematics and Mechanics*, Vol. 7, No. 12, pp. 85-118, 2011.

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93) Sayyad A. S. "Comparison of various shear deformation theories for the free vibration of thick isotropic beams" *International Journal of Civil and Structural Engineering*, Vol. 2, No 1, pp. 85-97, 2011.

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95) Ghugal Y. M. and Sayyad A. S., "A Static Flexure of Thick Isotropic Plates Using Trigonometric Shear Deformation Theory", *Journal of Solid Mechanics*, 2010, 2(1), pp. 79-90. (Web of Science Indexed)

Book Chapters:

Sr. No.	Name of Author	Title of Book Chapter	Title of Book	Publisher	Page No.
1	Shinde B M and Sayyad A S	Free vibration analysis of laminated composite spherical shells: An analytical approach	Technologies for sustainable development	Taylor and Francis ISBN: 978-0-367-33737-7	51-56
2	Shinde B M and Sayyad A S	Bending of FGM plates using four variable shear deformation theory", Advances in concrete, structural and Geotechnical Engineering	Advances in concrete, structural and Geotechnical Engineering	Bloomsbury India ISBN-10: 9387471691, ISBN-13:978-9387471696	145-150
3	Naik NS and Sayyad A S	2D analysis of composite laminates using fifth-order shear and normal	Advances in Concrete, Structural & Geotechnical	Bloomsbury India ISBN-10: 9387471691,	437-441

		deformation theory	Engineering	ISBN-13:978-9387471696	
4	Ghumare SM and Sayyad A S	Bending of FGM plates using fifth order shear and normal deformation theory	Advances in Concrete, Structural & Geotechnical Engineering	Bloomsbury India ISBN-10: 9387471691, ISBN-13:978-9387471696	229-233

Papers presented in conferences:

Sr No.	Author	Title of Paper	Name of Conference	Date and Venue
1	Sayyad A.S. and Ghugal Y.M.	Comparative Study of Refined Beam Theories for Static Flexure of Deep Beams	Proceeding of Seventh Structural Engineering Convention (SEC-2010)	8th - 10th December, 2010 Annamalai university, Annamalainagar, T.N.
2	Sayyad A.S. and Ghugal Y.M.	Static Flexure of Thick Isotropic Plates Using Trigonometric Shear Deformation Theory	Proceeding of International conference on Innovative world of Structural Engineering (ICIWSE-2010)	25th -27th December, 2010 Government College of Engineering, Aurangabad, M.S.
3	Shinde B.M. and Sayyad A.S	Free vibration analysis of laminated composite spherical shells- an analytical approach	7th Nirma University International conference on Engineering (NUiCONE -2019)	21st to 22nd Nov 2019 at Nirma University, Ahemedabad
4	Naik. N.S., Sayyad A.S.	1D Thermal Analysis of Laminated Composite and Sandwich Plates using a new fifth order shear and normal deformation theory.	6th International Conference on recent advances in composite materials. (IRACM-2019), IIT Varanasi	25th -28th Feb 2019 at IIT Varanasi
5	Ghumare S. M., Sayyad A.S.	Analytical solution using fifth order shear and normal deformation theory for FG plates resting on elastic foundation subjected to hygro-thermo-mechanical loading.	6th International Conference on recent advances in composite materials. (IRACM-2019), IIT Varanasi	25th -28th Feb 2019 at IIT Varanasi
6	Shinde	Analytical solution using	6th International	25th -28th Feb 2019

	B.M. , Sayyad A.S.	fifth order shear and normal deformation theory for FG plates resting on elastic foundation subjected to hygro-thermo-mechanical loading	Conference on recent advances in composite materials. (IRACM-2019), IIT Varanasi	at IIT Varanasi
7	Naik N.S., Sayyad A.S.	2D analysis of composite laminates using fifth-order shear and normal deformation theory	Advances in concrete, structural and Geotechnical Engineering (ACSGE 2018), International Conference at Bits Pilani.	26th to 28th Feb 2008 at Bits Pilani
8	Ghumare S.M.., Sayyad A.S.	Bending of FGM plates using fifth order shear and normal deformation theory	Advances in concrete, structural and Geotechnical Engineering (ACSGE 2018), International Conference at Bits Pilani.	26th to 28th Feb 2008 at Bits Pilani
9	Shinde B.M.., Sayyad A.S.,	Bending of FGM plates using four variable shear deformation theory	Advances in concrete, structural and Geotechnical Engineering (ACSGE 2018), International Conference at Bits Pilani.	26th to 28th Feb 2008 at Bits Pilani

Research Profile URL

Google Scholar	https://scholar.google.com/citations?user=DCsBaTUAAAAJ&hl=en
Scopus	**Scopus Author ID:** 42462330800 https://www.scopus.com/authid/detail.uri?authorId=42462330800
Orcid	https://orcid.org/0000-0002-3702-4167
publons	**Web of Science Researcher ID:** O-2748-2015 https://publons.com/researcher/1479756/atteshamuddin-sayyad/

Other Research Details

Ph D Guide ?Give field & University:	**PhD Guide:** Yes **Field:** • Bending, buckling, vibration of Laminated composite, sandwich, functionally graded beams, plates and shells • Analysis of nanostructures • Thermal analysis of composite structures

<table>
<tr><td></td><td>University: SPPU, Pune</td></tr>
<tr><td>Ph Ds/ Projects Guided:</td><td>05
<table>
<tr><th>Name of Student</th><th>Status</th></tr>
<tr><td>Dr. Shantaram M. Ghumare</td><td>Viva Defended on 14/9/2020</td></tr>
<tr><td>Dr. Nitin S. Naik</td><td>Viva Defended on 27/10/2020</td></tr>
<tr><td>Mr. Rohit D. Nikam</td><td>Under progress</td></tr>
<tr><td>Dr. Bharti M. Shinde</td><td>Viva Defended on 16/12/2021</td></tr>
<tr><td>Dr. Pravin V. Avhad</td><td>Viva Defended on 07/01/2022</td></tr>
</table></td></tr>
<tr><td>Books Published</td><td>-</td></tr>
<tr><td>IPRs/Patents</td><td>Patent Granted: 08
1. Surveying Instrument.
Certificate No: 55964
Design No.: 284335
Date of Issue: 20/06/2017
2. Magnetic Wind Turbine
Certificate No: 70096
Design No.: 299625
Date of Issue: 22/1/2019
3. Castellated Beam
Certificate No: 76780
Design No.: 311580
Date of Issue: 1/7/2019
4. Support Assembly for Beam Testing
Certificate No:78652
Design No.: 304777
Date of Issue:22/7/2019
5. Equipment of Direct Central Impact
Certificate No: 77285
Design No.: 302568
Date of Issue: 4/7/2019
6. Castellated beams
Certificate No: 81020
Design No.: 310949
Date of Issue: 9/9/2019
7. Castellated beams
Certificate No: 85554
Design No.: 310961
Date of Issue: 28/1/2020
8. Air Purifier</td></tr>
</table>

	Certificate No: 78077 Design No.: 317590 Date of Issue: 16/7/2019
Professional Memberships:	• Member of Institute of Engineers India • Life Member of Indian Society of Technical Education (ISTE)
Interaction with professional institutions	--

Consultancy Activities

Duration	Title of Activity	Issued Organization	Amount
--	--	--	

Grants fetched

Duration	Title	Issued Organization	Amount
2013-2015	Experimental Investigation on Reinforced Geopolymer Deep Beam	BCUD, SPPU Pune	Rs. 1, 40, 000/-

Awards

1. **"Engineering Achievement Award"** 2017, Institute of Engineers Kolkata, Local Centre (Ahmednagar).
2. **Outstanding Reviewer of the Year** 2018 (International Journal of Mechanical Sciences- Elsevier)
3. **Outstanding Reviewer of the Year 2017** (Applied Acoustics- Elsevier)
4. **Outstanding Reviewer of the Year 2017** (Composites Part B- Elsevier)

Reviewer of the International Journals

1) Journal of Aerospace Engineering **(ASCE)**
2) Composites Part B-Engineering **(Elsevier)**
3) Composite Structures **(Elsevier)**
4) Applied Acoustics **(Elsevier)**
5) International Journal of Mechanical Sciences **(Elsevier)**
6) Materials and Design **(Elsevier)**
7) Applied Mathematical Modelling **(Elsevier)**
8) European Journal of Mechanics A/Solids **(Elsevier)**
9) International Journal of Applied Mechanics **(World Scientific)**
10) Mechanics of Advanced Materials and Structures **(Taylor & Francis)**
11) Journal of Mechanical Science and Technology **(Springer)**
12) International Journal of Structural stability and Dynamics **(World Scientific)**
13) Journal of the Brazilian Society of Mechanical Sciences and Engineering **(Springer)**
14) Meccanica **(Springer)**

FACULTY DEVELOPMENT PROGRAMMES ATTENDED			
Name of the FDP / Workshop	**Organization**	**Duration**	**Month-Year**
Intellectual Property Rights (IPR)-Process and Procedure in India	Sanjivani College of Engineering, Kopargaon	Two days 17^{th} – 18^{th} Jan 2020	Jan 2020
Present Scenario of Treatment of Waste in India	Sanjivani College of Engineering, Kopargaon	Two Weeks 13^{th} – 25^{th} Nov 2017	Nov 2017
Civil Post Graduate Conference 2016 (Chair Person)	AISSMS College of Engineering Pune	Two days 9^{th} – 10^{th} June 2016	June 2016
Analysis & Design of Civil Engineering Structures Under static & dynamic loading (Keynote Speaker)	Amrutvahini College of Engineering, Sangamner	Two days 27^{th} -28^{th} Jan 2016	2016
Introduction to Finite Element Methods and Its Engineering Applications	Sanjivani College of Engineering, Kopargaon	Two days 9^{th} – 10^{th} Dec 2016	Dec. 2016
Finite Element and Analytical Solutions for Composite Laminates	Sanjivani College of Engineering, Kopargaon	One Week	2015
Finite element methods for engineering application	Sardar Vallabhbhai National Institute of Technology, Surat	One Week Nov 30 – Dec. 4, 2015	Dec. 2015

Recent Trends in Earthquake Engineering	Pravara Rural Engineering College Loni-413736	Two days 20th -21st Feb 2014	2014

FACULTY DEVELOPMENT PROGRAMMES ORGANIZED

Name of the FDP / Workshop	Organization	Duration	Month-Year	Capacity
Strategies to improve R and D activities in Engineering Institutes	Dept. Of Structural Engineering SCOE Kopargaon	5 days	September 2020	83
Finite Element and Analytical Solutions for Composite Laminates	Sanjivani College of Engineering, Kopargaon	05 Days	Nov. 2015	55

INVITED LECTURES IN CONFERENCE/SEMINAR

Title of Lecture/ Academic Session	Title of Conference/ Seminar etc.	Organized By
Research Methodology	Two days workshop on Research Methodology	P.R.E.C., Loni
How to Write Technical Paper	Invited Lecture	Amrutvahini Polytechnic, Sangamner
Finite Element Analysis	One week workshop on FEM	P.D.V.V.P. C.O.E, Ahmednagar
Theory of Plates and Shells	One week workshop on TPS	D.Y. Patil College of Engineering, Pune
Plastic Analysis of Beams and Frames	Invited Lecture series	K.K.W. College of Engineering Nasik
Advanced Solid Mechanics	Invited Lecture series	K.K.W. College of Engineering Nasik
Theory of Plates and Shells	Invited Lecture series	K.K.W. College of Engineering Nasik
Analysis & Design of Civil Engineering Structures Under static & dynamic	Two days national conference on "Analysis & Design of Civil Engineering Structures Under static & dynamic loading"	Amrutvahini College of Engineering, Sangamner 27th -28th Jan 2016

loading		
Guidelines for NBA Accreditation Process	Invited Lecture	NDMVP College of Engineering, Nasik
Preparation of NAAC, Research paper presentation and publication	Invited Lecture	Maulana Mukhtar Ahmad Nadvi Technical Campus Malegaon Nashik
Guideline for research publication	Two days conference on "Research proposal, Paper, IPR and Patent Drafting"	PIMPRI Chinchwad College of Engineering and Research, Pune 9th Dec 2017

OTHER Professional URLs	
Personal Website	**-**
Linked In Profile	**-**
GitHub URL	**-**
YouTube Channel	https://www.youtube.com/channel/UCp66i_tIW1vxg0FO-nNAjYA
Other	**Researchgate Profile** https://www.researchgate.net/profile/Atteshamuddin-Sayyad-2

Any Other: