



Department of Mechanical Engineering

Faculty Profile

Prof. (Dr) M M Sayyad

PhD (Mechanical- Design Engineering)

Assistant Professor

✉ mmsayyad@aiissmscoe.com

sayyadmanna@gmail.com

☎ (020) 26058587; Extn: 1801

🔗 <https://scholar.google.co.in/citations?user=CvZfziAAAAAJ&hl=en&authuser=1>

🔗 <https://www.linkedin.com/in/mannan-sayyad-4768a666>

🔗 https://www.researchgate.net/profile/Mannan_Sayyad



Research Areas / Areas of Interest

Fiber-reinforced Composite Materials, Fracture Mechanics, Wave Mechanics

Personal Details

Date of Birth : 11/01/1981

Domicile: Maharashtra

Gender : Male

Blood Group: B+ve

Contact Details: B5/202, Kumar Palms, Kondhwa (Bk),
Pune – 411048

Academic Background

| S. NO. | Qualification | Specialization | University | Class/Grade | Year of Passing |
|--------|---------------|---------------------------|------------|--|-----------------|
| 1 | Ph.D. | Mechanical Engineering | IIT Kanpur | -- | May 2018 |
| 2 | M.Tech | Mechanical – Design Engg. | IIT Kanpur | - | May 2006 |
| 3 | B.E. | Mechanical Engineering | Pune | 1 st class with distinction | May 2003 |

Work Experience

| S. No. | Type of Experience | Years | Months |
|--------------|--------------------|-----------|----------|
| 1 | Teaching | 05 | 0 |
| 2 | Research | 06 | 00 |
| 3 | Industry | 05 | 0 |
| 4. | Others | -- | -- |
| Total | | 16 | 0 |

Subjects / Courses Taught

| S. No. | Subject | UG/PG | Class (FE/SE/TE/BE/ME) | No of times Subject Taught |
|--------|--------------------------------------|-------|----------------------------|----------------------------|
| 1 | Design of Machine Elements – I | UG | TE (Mechanical) | 01 |
| 2 | Strength of Materials | UG | SE (Mechanical) | 02 |
| 3 | Strength of Materials | UG | SE (Mechanical S/W) | 01 |
| 4 | Analysis and Synthesis of Mechanisms | PG | SYME (Mechanical) | 01 |
| 5 | Finite Element Method | PG | SYMT (Mechanical – Design) | 01 |
| 6 | Product Design and Engineering | UG | TYBT(Mechanical) | 01 |
| 7 | Mechanical System Design | UG | BE (Mechanical) | 03 |

| | | | | |
|----|-----------------------------------|----|---------------------|----|
| 8 | Industrial Fluid Power | UG | BE (Mechanical) | 01 |
| 9 | Engineering Mechanics | UG | FE | 01 |
| 10 | Theory of Machines | UG | SE (Mechanical S/W) | 01 |
| 11 | Kinematics of Machinery | UG | SE (Mechanical) | 02 |
| 12 | Numerical and Statistical Methods | UG | TE (Mechanical) | 01 |
| 13 | Composite Materials | UG | TE (Mechanical) | 01 |
| 14 | Dynamics of Machinery | UG | BE (Mechanical) | 01 |

Research Publications

| | National | International | State | SCI/ Scopus Indexed | UGC Approved |
|--------------------|----------|---------------|-------|---------------------------|-----------------|
| Journals | 00 | 07 | 00 | 05 | 00 |
| Conferences | 00 | 05 | 00 | 05 | -- |

Publication Details (Journals)

| S. No | Document Details | Authors | Year | Source Details | ISBN/ISSN | Publisher |
|-------|---|--|------|--|---|---------------------------------------|
| 1. | Measurement of microfibril angles in bamboo using Mueller matrix imaging | Sayyad Mannan, Mohammad Zaffar, Asima Pradhan, Sumit Basu | 2016 | Applied Optics | ISSN: 1559-128X (print), 2155-3165 (online) | Optical Society of America |
| 2. | Correlations between axial stiffness and microstructure of a species of bamboo | Sayyad Mannan, J. Paul Knox and Sumit Basu | 2017 | Royal Society Open Science | ISSN:2054-5703 | The Royal Society |
| 3. | Stiffness and toughness gradation of bamboo from a damage tolerance perspective | Sayyad Mannan, Venkitanarayanan Parameshwaran and Sumit Basu | 2018 | International Journal of Solids and Structures | ISSN: 0020-7683 | Elsevier |
| 4. | Predicting T ensile Behaviour of Bulk Bamboo | Mannan Sayyad | 2020 | Advanced Materials Letters | ISSN: 0976-3961 | International Association of Advanced |

| | | | | | | |
|----|--|---------------|------|--|---|--|
| | using Weibull Statistics for Progressive Failure | | | | | Materials (IAAM) |
| 5. | Flaw resistance and mode-I fracture energy redistribution in bamboo- a Correlation | Mannan Sayyad | 2020 | Advanced Materials Letters | ISSN: 0976-3961 | International Association of Advanced Materials (IAAM) |
| 6 | Experimental generation and analysis of Lamb waves in aluminium and glass/epoxy composite plates | Mannan Sayyad | 2021 | Journal of Institution of Engineers India Ser. C | Electronic ISSN 2250-0553 Print ISSN 2250-0545 | Springer |
| 7 | Asymmetric behaviour of elastic waves in anisotropic plate having graded properties: A fast Fourier transformbased spectral analysis | Mannan Sayyad | 2022 | Journal of Institution of Engineers India Ser. C | Electronic ISSN 2250-0553 Print ISSN 2250-0545 | Springer |

Publication Details (Conferences)

| S. No | Document Details | Authors | Year | Conference Details | ISBN | Organised by |
|-------|---|---------------------------|------|--|------|---|
| 1. | Structure, stiffness and fracture toughness of bamboo | Mannan Sayyad, Sumit Basu | 2016 | 16th International Conference on New Trends in Fatigue and Fracture Dubrovnik, Croatia | - | University of Zagreb Faculty of Mechanical Engineering and Naval Architecture |
| 2. | Correlations | Mannan Sayyad, | 2016 | Sixth | - | IIT Bombay |

| | | | | | | |
|----|---|---|------|---|---|---|
| | between stiffness and microstructure of a species of bamboo | Sumit Basu | | International Congress On Computational Mechanics And Simulation | | |
| 3. | Structure, Stiffness and Fracture Toughness of a Species of Bamboo | Mannan Sayyad, P Venkitanarayanan, Sumit Basu | 2017 | Proceedings of 3rd Indian Conference on Applied Mechanics-2017 (INCAM-2017) | - | MNNIT Allahabad |
| 4. | Multiscale modelling of naturally functional gradient material-bamboo | Mannan Sayyad, Sumit Basu | 2015 | Proceedings of the 60th Congress of the Indian Society of Theoretical and Applied Mechanics | - | IIT Kharagpur |
| 5. | Analysis of laser generated lamb waves using wavelet transforms | S Mannan, T Pramila, V Raghuram, NN Kishore | 2006 | Proceeding of ASNT Fall Conference, Houston, Texas USA | - | American Society for Nondestructive Testing |

PhD / ME / BE Student Guided for Project

| Level | Ph.D. | M.E. (PG) | B.E. (UG) |
|-----------------------|-------|-----------|-----------|
| No. of Student guided | - | 01 | 08 |

Professional Memberships

| Professional Body | Level (National/ International) | Type (Fellow/Life/Annual) | Membership No. |
|-------------------|-------------------------------------|------------------------------|----------------|
| SESI | National | Life | LM/2565/2021 |

Patents / IPR Filed / Granted

| S. No | Investigator Details | Title | Year | Status (Filed/Grante | Details |
|-------|----------------------|-------|------|-------------------------|---------|
|-------|----------------------|-------|------|-------------------------|---------|

| | | | | | |
|---|---|---|---|----|---|
| | | | | d) | |
| 1 | - | - | - | - | - |

Books Published

| S. No | Title | Name of the Publisher | ISBN/ISSN Number |
|-------|-------|-----------------------|------------------|
| | - | - | - |

Research Grants Received

| S. No | Program | Duration | Funding Agency | Grant Amount |
|-------|---------|----------|----------------|--------------|
| 1. | - | - | - | - |

Details of Workshop / STTP / FDP / Seminar / Conferences Organized

| S. No | Title | Type | Duration | Level (State/National/ International) | Sponsoring Agency |
|-------|---|---------------------|----------|---------------------------------------|-----------------------|
| 01 | Advances in Measurement and Analysis of Vibration and Noise | Workshop | 2 days | National | SPPU |
| 02 | Lean Six Sigma Yellow Belt | Certificate Program | 3 days | National | Binghamton University |

Contribution as Resource Person

| S. No. | Place/ Organization | Topic | Level(National/Int/ State/Regional) | Date |
|--------|---------------------|----------------------------------|-------------------------------------|--------------------------|
| 1 | ARAI Pune | Evaluation of a Continuum Damage | National | 01-08-2019 to 31-07-2020 |

| | | | | |
|---|--|--|---------------|-----------------------------|
| | | Mechanics Material Model of a Glass Fiber- reinforced Plastic | | |
| 2 | AICTE Training and Learning (ATAL) Academy | Shape Memory Alloy Modelling, its Applications to Wearable Devices and Smart Structures | National | 03/01/2022 to 07/01/2022 |
| 3 | Koncranes | University Thesis Program Phase- I | International | 01/01/2021-31- 03/2022 |
| 4 | Koncranes | University Thesis Program Phase- II | National | 01/04/2022- continue |

Details of Workshop / STTP / FDP / Conferences Attended

| S. N | Title | Type | Duration | Organizer | Sponsoring Agency |
|------|---|-----------|----------------------|---|-------------------|
| 1 | Use of Mathematics in Industry | Work shop | January 3-5, 2019 | Vishwakarma Institute of Information technology, Pune | SPPU |
| 2. | Recent Trends in Solar Thermal Systems and its Scope in India | Seminar | February 21-22, 2019 | AISSMS College of Engg, Pune | SPPU |
| 3. | NDT and its applications in Aerospace | Work shop | February 25, 2019 | AISSMS College of Engg, Pune | ASM |
| 4. | Problem based learning | STTP | 21-30 May 2019 | AISSMS Instt. Of Information Technology, Pune | AICTE |
| 5. | Vision-Mission-PEO-PSO-PO-CO: Framing, Mapping, Assessment and Attainment | FDP | 10-15 June 2019 | AISSMS College of Engg, Pune | ISTE |

Major Professional Responsibilities Handled

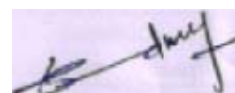
| S. No. | Role and Responsibilities |
|--------|---|
| 1. | Co-ordinator of National Level Workshop |

| | |
|---|---|
| 2 | Department coordinator of NBA criterion 9.0 |
|---|---|

Awards Received

| S. No. | Awards |
|--------|---|
| 1. | Travel award from Department of Biotechnology (DBT) |

Declaration: I hereby declare that all the statement made above are correct to the best of my knowledge and belief.



Dr M M Sayyad
Assistant Professor
Department of Mechanical Engineering
AISSMS COE