**Mrs. Sushmita Dash**

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| **Name** | : | **Mrs. Sushmita Dash** |
| **Designation** | : | **Assistant Professor** |
| **Phone No.** | : | **+91-8895435809****+91-6371071188** |
| **Email Id** | : | gungunsushmita@mail.com |
|  |  | sushmita\_me@gita.edu.in\_ |

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* **Qualification**

Ph.D. cont. (Thesis submitted, Mechanical Engineering, KIIT University, M. Tech. (Mechanical System Design), B.E. (Mechanical Engineering).

* **Specialization**

Design and Manufacturing

* **Experience**

14 years

* **Subject Teaching**

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| --- | --- | --- |
| **Under Graduate Level** | : | Design of Machine Elements, Mechanics of Solid/Material, Introduction to Composite Materials, Engineering Materials, Basic Mechanical Engineering, Mechanical Measurement and Reliability, Thermodynamics, Disaster Management, Programming for Problem Solving using Python. |
| **Post Graduate Level** | : | Analysis and Performance of Composite Materials, Fatigue and creep, Material Handling, Finite Element Analysis.  |

* **Research Area**

Functionally Graded Material (FGM), Laminated composite structures/Curved structures, Smart (SMA, PZT and Magneto strictive material) Composite Structures, FEM, Machining, Optimization

* **Research Guidance**

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| **M. Tech. Candidates** | : | 02 Nos. (Continuing) |  |

**Awards and Honors **

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| **Sl. No** | **Name of the Award/****Medals** | **Name of the Research work for which the Award/Medal is WON** | **Date/****Month/****Year of award** | **Name of Awarding Organization** |
| 1. | Research Excellence Award-2022 | Finite Element Solution of stress and flexural strength of Functionally graded doubly curved sandwich shell panel. | 2022 | Institute of Scholars (InSc) |
| 2. | Best Faculty Award | International Research Awards on Science Technology and Management. | 14th& 15th May 2022 | INSO |

**Patents **

|  |  |  |  |  |
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| **Sl. No** | **Title**  | **Application Number** | **Type** | **Status** |
| 1. | A Novel Spring Design Method for Vehicular Suspension System | 202131046126 | Utility | Published/2021 |
| 2. | A smart Automatic Tap Indicator | 202231003134A | Utility | Published/2022 |

* **Members of Professional Bodies**

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| --- | --- |
| The Institute of Engineers (India) | M-147628-3 |
| Institute of Research Engineers and Doctors (IRED) | SNM2021111719 |
| Indian Society for Technical Education (ISTE) | LM-52036 |
| International Association of Engineers (IAENG) | 168376 |
| South Asia Institute of Science and Engineering (SAISE) | 20160407001 |
| Universal Association of Mechanical and Aeronautical Engineers (UAMAE) | AM10100057127 |
| The American Institute of Aeronautics and Astronautics (AIAA) | 737906 |
| International Association of Advanced Materials (IAAM) | 816231911794 |
| The International Academy of Science and Engineering for Development (IASED) | 51050247 |
| Institute for Engineering Research and Publication (IFERP) | PMIN93618702 |
| Institute of Scholars (InSc) | 20222REA88 |

* **Publications**
1. **Dash, S**., Mehar, K., Sharma, N., Mahapatra, T. R., Panda, S. K. (**2019**) Finite element solution of stress and flexural strength of functionally graded doubly curved sandwich shell panel, **Earthquake and Structures, Vol. 16 (1), pp. 55-67, DOI: 10.12989/eas.2019.16.1.055, SCIE (IF: 1.309)**
2. **Dash, S**., Mehar, K., Sharma, N., Mahapatra, T. R., Panda, S. K. (**2018**) Modal analysis of FG sandwich doubly curved shell structure, **Structural Engineering and Mechanics, Vol. 68 (6), pp. 721-733, DOI: 10.12989/sem.2018.68.6.721, (IF: 2.91) SCI**
3. Patro, S., Mahapatra, T. R**.**, **Dash, S**. and Murty, B. K. (2021) Artificial intelligence techniques for fault assessment in laminated composite structure: a review, **E3S Web Conf., 309 (2021) 01083, DOI: https://doi.org/10.1051/e3sconf/202130901083, SCOPUS**
4. Roy, R. S**., Dash, S**., Mahapatra, T. R., Mishra, D. and Jaypuria, S. (2021) Cutting Performance Analysis of Surface Textured Tools in Dry Turning: Optimisation of process parameters, **E3S Web Conf., 309 (2021) 01164, DOI: https://doi.org/10.1051/e3sconf/202130901164, SCOPUS**
5. Ranjan, S., Khan, R., **Dash, S.,** Mahapatra, T.R., Panda, S.K. (**2019**) Thermo-elastic free vibration analysis of functionally graded flat panel with temperature gradient along thickness, **IOP Conference Series: Materials Science and Engineering, 2019, 577(1), 012123 (IF: 0.39) (SCOPUS)**
6. **Dash, S**, Sharma, N, Mahapatra, T. R., Panda, S. K. and Sahu, P (**2018**) Free vibration analysis of functionally graded sandwich flat panel, **IOP Conf. Series: Materials Science and Engineering, Vol. 377 (1) 012140, doi:10.1088/1757-899X/377/1/012140, (IF: 0.39) (SCOPUS)**
7. Mahapatra, T. R**.**, Mehar, K., Panda, S. K., Dewangan, S. and **Dash, S.,** (**2017**) Flexural Strength of Functionally Graded Nanotube Reinforced Sandwich Spherical Panel, **IOP Conference Series: Materials Science and Engineering, Vol. 178, (012031) DOI: 10.1088/1757-899X/178/1/012031, (IF: 0.39) (SCOPUS)**
8. Mahapatra, T. R., Panda, S. K. and **Dash, S.,** (**2016**) Effect of hygrothermal environment on the nonlinear free vibration responses of laminated composite plates: A nonlinear finite element micromechanical approach, **IOP Conf. Series: Materials Science and Engineering 149, 012151 DOI: 10.1088/1757-899X/149/1/012151, (IF: 0.39) (SCOPUS)**
9. Mahapatra, T. R., Dewangan, S., **Dash, S**. and Panda S. K. (**2017**), Flexural Behavior of Functionally Graded Sandwich Plates, **International Journal of Research in Mechanical Engineering and Technology, Vol. 7 (1), pp. 25-29**.
10. **Dash, S.**, Mahapatra, T. R., Mishra,D., Panda R.C,. **(2021),** Finite Element Analysis of Natural Frequencies of Layered Composite Plate in Thermal Environment, **Design Engineering, ISSN:0011-9342, Issue:8, pp.4597-46099 (SCOPUS).**
* **International/ National Conference Participated**

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| **Year** | **Name of the International/National Conference** | **Title of the Paper** | **Mode of Presentation** | **Date** |
| 2016 | International Conference on Advances in Materials and Manufacturing Applications. (Icon AMMA), Amrita Vishwa Vidyapeetham University, Bangalore. | Effect of Hygrothermal Environments on the Free vibration of Laminated composite Flat panels: A nonlinear Finite element micromechanical Approach | Offline | 14/07/2016 | 16/07/2016 |
| 2021 | 12th InternationalConference on Material Processing and Characterisation(ICMPC-2021), NITTTR, Chandigarh | Cutting Performance Analysis of Surface Textured Tools in Dry Turning: Optimization of process parameters | Online | 06/10/2021 | 09/10/2021 |

* **Seminar/Conference/ Symposia/ Short term Course organized**

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| **Year** | **Name of the workshop/ seminar/Conference** | **Date** |
| **From** | **To** |
| 2017 | International Conference on Advanced Engineering Functional Materials. (ICAEFM’17)-Convenor | 21/09/2017 | 23/09/2017 |
| 2022 | FDP on Creative Works Using 3D Printing- Co-Convenor | 15/01/2019 | 19/01/2019 |

* **Seminar/ Symposia/ Short term Course Attended**

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| **Year** | **Name of the workshop/ seminar/Short term course** | **Date** |
| **From** | **To** |
| 2016 | All India Seminar on Nano Material and Nano Composite (NMNC-2016) | 29/01/2016 | 30/01/2016 |
| 2018 | AICTE QIP Short term Course on Composite Manufacturing Machining Modeling and Optimization (CMMMO-2019) | 19/02/2018 | 24/02/2018 |
| 2020 | TEQIP-III, BPUT Sponsored FDP on “Industry 4.0 &Robotics” | 17/02/2020 | 22/02/2020 |
| 2020 | TEQIP-III, Sponsored FDP on “Vibrational Analysis and condition Monitoring for Rotating Machines”-IGIT Sarang. | 5/10/2020 | 9/10/2020 |
| 2021 | Cognitive learning Instructor, Foundation Level, Sponsored by BPUT, Training Program | 11/01/2021 | 19/01/2021 |
| 2021 | TEQIP-III, BPUT Sponsored Short term training program on “Artificial Intelligence and its real-world Applications”. | 22/02/2021 | 26/02/2021 |
| 2021 | International workshop on” Structural Equation Model and Confirmatory Factor Analysis using AMOS”, Inspire Softech Solution, Chennai. | 18/12/2021 | 20/12/2021 |
| 2022 | Basic Python Course, CTTC, Ministry of MSME | 16/03/2022 | 16/04/2022 |
| 2022 | Future Ready Contributor Program, Advance Level, Training | 11/04/2022 |  |
| 2022 | International Workshop on” Django web framework (python)”, Inspire Infotech Solution, Chennai | 28/04/2022 | 30/04/2022 |

* **Extra Responsibility**

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| **Sl. No** | **Name of the Assignment or Designation** |
| 1. | Core Team Member for Student Admission  |
| 2. | Hostel Superintendent, Ladies Hostel |
| 3. | Secretary: Students Cultural Society |
| 4. | Coordinator of Departmental NBA, NAAC Accreditation Work |
| 5. | Coordinator, Laboratory Maintenance & Renovation work  |
| 6. | Coordinator, R&D and Consultancy  |
| 7. | Tutor Mentor; Student semester registration |
| 8. | Faculty in Charge (MAT LAB) |

* **Other Information**

**Additional Achievements:**

* 1. Stood first in **International Odissi Dance Festival,**2020 organized by Odissi Research center at UTKAL Ranga Mancha from 26th December to 30th December 2020
	2. **Kala Kamari Samman** at Global Festival of Performing Arts held at Kualalampur, Malaysia 3rd & 4th May 2019.
* **Address for Communication**

|  |  |  |
| --- | --- | --- |
| **Present Address:**N-3/33, IRC Village, NayapalliBhubaneswar, Odisha, India, PIN:751015 |   | **Permanent Address:**N-3/33, IRC Village, NayapalliBhubaneswar, Odisha, India, PIN:751015 |

***Declaration:***

 I do here by declare that all the above-mentioned statements are true and fact to the best of my knowledge & belief. I look forward for a chance to prove my competency and worth.

Date: 30/11/2021

Place: Bhubaneswar, Odisha, India

Sushmita Dash