

Profile Page

Research Interests :

3D weaving, 3D hollow fabrics and their composites, textile reinforced composites

Other Profile Links :

Google Scholar Link :

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Journal Publications :

Year	Journal	Publication
2021	Journal of Composite Materials, Volume 55, issue 24, pages 3471-3481	Failure analysis of 3D woven spacer sandwich composites with woven cross-links and face sheet thickening under compressive and flexural loading
2020	Composites Part B: Engineering, Volume 182, 107659	Ghanshyam Neje, Bijoya Kumar Behera, Influence of cell geometrical parameters on the mechanical properties of 3D integrally woven spacer sandwich composites
2020	Journal of Industrial Textiles	Lekhani Tripathi, Ghanshyam Neje, Bijoya Kumar Behera, Geometrical modeling of 3D woven honeycomb fabric for manufacturing of lightweight sandwich composite material
2020	Polymer Composites, Volume 41, Issue 11, Pages 4885-4898	Ghanshyam Neje, Bijoya Kumar Behera, Comparative analysis of mechanical behavior of 3D woven spacer sandwich composites with single and double level structures
2019	The Journal of The Textile Institute, Volume 110, Issue 5	Ghanshyam Neje & Bijoya Kumar Behera, Geometrical modeling of 3D woven spacer fabrics as reinforcement for lightweight sandwich composites
2019	Composites Part B: Engineering, Volume 160, Pages 306-314	Ghanshyam Neje, Bijoya Kumar Behera, Investigation of mechanical performance of 3D woven spacer sandwich composites with different cell geometries
2018	Applied Composite Materials, Volume 25, Issue 4, pp 725–734	Ghanshyam Neje and Bijoya Kumar Behera, Lateral compressive properties of spacer fabric composites with different cell shapes https://doi.org/10.1007/s10443-018-9729-6

Conference Publications :

Year	Conference	Publication
2021	Sustainable Growth in Textile (SGT-2021), Uttar Pradesh Textile Technology Institute Kanpur	Prashant Kumar and Ghanshyam Neje, Design of structural health monitoring sensor using textile materials
2020	AIAA SciTech 2020 Forum, American Institute of Aeronautics and Astronautics	Firat Turgut, Arda Koycu, Hulya Cebeci, Ghanshyam Neje, Bijoy K. Behera, Elif Ozden-Yenigun, Hierarchical CNTs grown multifunctional 3D woven composite beams for aerospace applications

2018	ECCM18 - 18th European Conference on Composite Materials, Athens, Greece, European Society for Composite Materials & University of Patras, Greece	Firat Turgut, Ghanshyam Neje, Bijoy Behera, Elif Ozden-Yenigun, Hulya Cebeci, Hierarchical carbon nanotubes grown on 3D woven glass fiber preforms for multifunctional structural composites beams
2018	8th World Conference on 3D Fabrics and Their Applications, The University of Manchester, Manchester, U.K.	Ghanshyam Neje and Bijoya Kumar Behera, Compression properties of spacer fabric composites with different cell shapes
2018	8th World Conference on 3D Fabrics and Their Applications, The University of Manchester, Manchester, U.K.	Firat Turgut, Ghanshyam Neje, Bijoy Behera, Elif Ozden-Yenigun, Hulya Cebeci, Growth of high-yield aligned CNTs onto 3D woven preforms for multifunctional structural composites
2016	7th World Conference on 3D Fabrics and Their Applications, ENSAIT, Roubaix (France)	B. K. Behera, Ghanshyam Neje and Manjunath R. N., Design and development of complex 3D woven hollow structures and their composites
2015	International Conference 'Innovation in Textiles' INNOTEX-15, Jawaharlal Nehru Government Engineering College, Sundernagar, Mandi, India	Ghanshyam Neje, Manjunath R. N. and B. K. Behera,
2015	6th World Conference on 3D Fabrics and Their Applications, North Carolina State University (NCSU), Raleigh, NC, USA	B. K. Behera and Ghanshyam Neje, Mechanics of 3D woven spacer fabrics using FEM and mathematical modeling
2015	6th World Conference on 3D Fabrics and Their Applications, North Carolina State University (NCSU), Raleigh, NC, USA	Ghanshyam Neje and B. K. Behera, Modeling of 3D Woven Spacer Fabric with Innovative Cell Shapes and Multiple Layers
2013	5th World Conference on 3D Fabrics and Their Applications, Indian Institute of Technology Delhi	Ghanshyam Neje and B. K. Behera, Design and development of 3D woven spacer fabrics on conventional weaving machine for structural composites

Events Organized :

Category	Type	Title	Venue	From	To	Designation
STC	National	Recent Trends in Textile and Fashion	Department of Textile Technology, Dr. B. R. Ambedkar National Institute of Technology Jalandhar, India	22/06/2020	26/06/2020	Coordinator
STC	National	Textile Testing and Analytical Techniques in Textiles and Fashion	Department of Textile Technology, Dr. B. R. Ambedkar National Institute of Technology Jalandhar, India	27/11/2020	01/12/2020	Convenor
STC	National	Characterisation Techniques in Textiles and Polymers	Department of Textile Technology, Dr. B. R. Ambedkar National Institute of Technology Jalandhar, India	15/12/2020	19/12/2020	Convenor

FDP	National	Apparel Design	Department of Textile Technology, Dr. B. R. Ambedkar National Institute of Technology Jalandhar, India	01/02/2021	05/02/2021	Convenor
Webinar	National	Garment Product Design	Department of Textile Technology, Dr. B. R. Ambedkar National Institute of Technology Jalandhar, India	07/12/2021	07/12/2021	Coordinator

Professional Affiliations :

Designation	Organization
Life Member	Textile Association of India
Associate Member	Institute of Engineers India

PG Dissertation Guided :

Student Name	Dissertation Title	Status	Year	Co-Supervisor
Prashant Kumar	Designs of structural health monitor sensor using different textile materials	Completed	2021	

Patents :

Name	Reg./Ref. No.	Date of Award/Filing	Organization	Status
Geometrical model and fabric production technique for energy absorbing woven structure with multiple structural variants		14/07/2020		Filed

Award and Honours :

Title	Activity	Given by	Year
Distinction in Doctoral Research for the year 2018		Indian Institute of Technology Delhi	2022