Profile Page

Research Interests:

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

Other Profile Links:

Google Scholar Link:

Google Scholar Click Here

Journal Publications:

Year	Journal	Publication
2021	Journal of Composite Materials,	Failure analysis of 3D woven spacer sandwich composites with woven
	Volume 55, issue 24, pages	cross-links and face sheet thickening under compressive and flexural
	3471-3481	loading
2020	Composites Part B: Engineering,	Ghanshyam Neje, Bijoya Kumar Behera, Influence of cell geometrical
	Volume 182, 107659	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,	Ghanshyam Neje, Bijoya Kumar Behera, Comparative analysis of
	Issue 11, Pages 4885-4898	mechanical behavior of 3D woven spacer sandwich composites with
		single and double level structures
2019	The Journal of The Textile	Ghanshyam Neje & Bijoya Kumar Behera, Geometrical modeling of 3D
	Institute, Volume 110, Issue 5	woven spacer fabrics as reinforcement for lightweight sandwich
		composites
2019	Composites Part B: Engineering,	Ghanshyam Neje, Bijoya Kumar Behera, Investigation of mechanical
	Volume 160, Pages 306-314	performance of 3D woven spacer sandwich composites with different cell
		geometries
2018	Applied Composite Materials,	Ghanshyam Neje and Bijoya Kumar Behera, Lateral compressive
	Volume 25, Issue 4, pp 725–734	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	Prashant Kumar and Ghanshyam Neje, Design of
	Pradesh Textile Technology Institute Kanpur	structural health monitoring sensor using textile
		materials
2020	AIAA SciTech 2020 Forum, American Institute of	Firat Turgut, Arda Koycu, Hulya Cebeci, Ghanshyam
	Aeronautics and Astronautics	Neje, Bijoy K. Behera, Elif Ozden-Yenigun,
		Hierarchical CNTs grown multifunctional 3D woven
		composite beams for aerospace applications

Materials, Athens, Greece, European Society for Composite Materials & University of Patras, Greece 8th World Conference on 3D Fabrics and Their Applications, The University of Manchester, Manchester, U.K. 2018 8th World Conference on 3D Fabrics and Their Applications, The University of Manchester, U.K. 2018 8th World Conference on 3D Fabrics and Their Applications, The University of Manchester, Manchester, U.K. 2016 7th World Conference on 3D Fabrics and Their Applications, ENSAIT, Roubaix (France) 2015 International Conference Innovation in Textiles' INNOTEX-15, Jawaharlal Nehru Government Engineering College, Sundernagar, Mandi, India 2015 6th World Conference on 3D Fabrics and Their Applications, North Carolina State University (NCSU), Raleigh, NC, USA 2016 2017 5th World Conference on 3D Fabrics and Their Applications, North Carolina State University (NCSU), Raleigh, NC, USA 2018 2018 6th World Conference on 3D Fabrics and Their Applications, Indian Institute of Technology Delhi 2019 6th World Conference on 3D Fabrics and Their Applications, North Carolina State University (NCSU), Raleigh, NC, USA 2010 6th World Conference on 3D Fabrics and Their Applications, Indian Institute of Technology Delhi 2011 6th World Conference on 3D Fabrics and Their Applications, Indian Institute of Technology Delhi 2012 6th World Conference on 3D Fabrics and Their Applications, North Carolina State University (NCSU), Raleigh, NC, USA 2018 6th World Conference on 3D Fabrics and Their Applications, Indian Institute of Technology Delhi 2019 6th World Conference on 3D Fabrics and Their Applications, North Carolina State University (NCSU), Raleigh, NC, USA 2010 6th World Conference on 3D Fabrics and Their Applications, North Carolina State University (NCSU), Raleigh, NC, USA 2010 6th World Conference on 3D Fabrics and Their Applications, North Carolina State University (NCSU), Raleigh, NC, USA 2017 6th World Conference on 3D Fabrics and Their Applications, North Carolina State University (NCSU), Raleigh, NC, USA 2	2018	ECCM18 - 18th European Conference on Composite	Firat Turgut, Ghanshyam Neje, Bijoy Behera, Elif
2018 8th World Conference on 3D Fabrics and Their Applications, The University of Manchester, Manchester, U.K. 2018 8th World Conference on 3D Fabrics and Their Applications, The University of Manchester, Manchester, U.K. 2018 2016 2016 2016 2016 2016 2016 2016 2016		Materials, Athens, Greece, European Society for	Ozden-Yenigun, Hulya Cebeci, Hierarchical carbon
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Applications, The University of Manchester, Manchester, U.K. 2018 8th World Conference on 3D Fabrics and Their Applications, The University of Manchester, Manchester, U.K. 2016 7th World Conference on 3D Fabrics and Their Applications, ENSAIT, Roubaix (France) 2016 International Conference 'Innovation in Textiles' INNOTEX-15, Jawaharlal Nehru Government Engineering College, Sundernagar, Mandi, India 2015 6th World Conference on 3D Fabrics and Their Applications, North Carolina State University (NCSU), Raleigh, NC, USA 2016 6th World Conference on 3D Fabrics and Their Applications, North Carolina State University (NCSU), Raleigh, NC, USA 2017 5th World Conference on 3D Fabrics and Their Applications, Indian Institute of Technology Delhi 2018 6th World Conference on 3D Fabrics and Their Applications, Indian Institute of Technology Delhi 2019 6th World Conference on 3D Fabrics and Their Applications, Indian Institute of Technology Delhi 2010 6th World Conference on 3D Fabrics and Their Applications, Indian Institute of Technology Delhi 2011 6th World Conference on 3D Fabrics and Their Applications, Indian Institute of Technology Delhi 2012 6th World Conference on 3D Fabrics and Their Applications, Indian Institute of Technology Delhi			for multifunctional structural composites beams
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Applications, The University of Manchester, Manchester, U.K. 2016		Manchester, U.K.	with different cell shapes
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2016 7th World Conference on 3D Fabrics and Their Applications, ENSAIT, Roubaix (France) 2015 International Conference 'Innovation in Textiles' INNOTEX-15, Jawaharlal Nehru Government Engineering College, Sundernagar, Mandi, India 2015 6th World Conference on 3D Fabrics and Their Applications, North Carolina State University (NCSU), Raleigh, NC, USA 2016 6th World Conference on 3D Fabrics and Their Applications, North Carolina State University (NCSU), Raleigh, NC, USA 2017 5th World Conference on 3D Fabrics and Their Applications, North Carolina State University (NCSU), Raleigh, NC, USA 2018 5th World Conference on 3D Fabrics and Their Applications, Indian Institute of Technology Delhi 2019 5th World Conference on 3D Fabrics and Their Applications, Indian Institute of Technology Delhi applications Inst		Manchester, U.K.	aligned CNTs onto 3D woven preforms for
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2015 International Conference 'Innovation in Textiles' INNOTEX-15, Jawaharlal Nehru Government Engineering College, Sundernagar, Mandi, India 2015 6th World Conference on 3D Fabrics and Their Applications, North Carolina State University (NCSU), Raleigh, NC, USA 2015 6th World Conference on 3D Fabrics and Their Applications, North Carolina State University (NCSU), Raleigh, NC, USA 2016 5th World Conference on 3D Fabrics and Their Applications, Indian Institute of Technology Delhi Conventional weaving machine for structural		Applications, ENSAIT, Roubaix (France)	Design and development of complex 3D woven
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2015 6th World Conference on 3D Fabrics and Their Applications, North Carolina State University (NCSU), Raleigh, NC, USA 2013 5th World Conference on 3D Fabrics and Their Applications, Indian Institute of Technology Delhi Applications, Indian Institute of Technology Delhi Chanshyam Neje and B. K. Behera, Modeling of 3D Woven Spacer Fabric with Innovative Cell Shapes and Multiple Layers Ghanshyam Neje and B. K. Behera, Design and development of 3D woven spacer fabrics on conventional weaving machine for structural		Applications, North Carolina State University	woven spacer fabrics using FEM and mathematical
Applications, North Carolina State University (NCSU), Raleigh, NC, USA Sth World Conference on 3D Fabrics and Their Applications, Indian Institute of Technology Delhi Applications, Indian Institute of Technology Delhi Conventional weaving machine for structural		(NCSU), Raleigh, NC, USA	modeling
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2013 Sth World Conference on 3D Fabrics and Their Applications, Indian Institute of Technology Delhi Conventional Weaving machine for structural		Applications, North Carolina State University	Woven Spacer Fabric with Innovative Cell Shapes
Applications, Indian Institute of Technology Delhi development of 3D woven spacer fabrics on conventional weaving machine for structural		(NCSU), Raleigh, NC, USA	and Multiple Layers
conventional weaving machine for structural	2013	5th World Conference on 3D Fabrics and Their	Ghanshyam Neje and B. K. Behera, Design and
		Applications, Indian Institute of Technology Delhi	development of 3D woven spacer fabrics on
composites			conventional weaving machine for structural
			composites

Events Organized:

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

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

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	Completed	2021	
	different textile materials			

Patents:

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

Award and Honours:

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