

DEVARSHI KASHYAP

PhD, Mechanical Engineering (Pursuing)
Indian Institute of Technology Guwahati

 #9, Palash Path, Guwahati,
Assam-781024, India
 k.devarshi@iitg.ac.in
dvrshi@gmail.com
 +91 8486198086

Experience

Assistant Professor

January 2018- Till date

Department of Mechanical Engineering, Assam Engineering College, Guwahati, Assam

Educational Qualification

PhD (Mechanical Engineering) (Thesis Submitted)

July 2013-

Department of Mechanical Engineering, Indian Institute of Technology Guwahati, Assam, India

Thesis Title: Development of Porous and Patient-Specific Shape Memory Polymer Composites as an Embolic Agent for Endovascular Embolization

M. Tech (Manufacturing Technology)

July 2011 – June 2013

Department of Production Engineering, National Institute of Technology, Tiruchirappalli, Tamil Nadu, India

Thesis Title: Investigation on surface finish and performance analysis of micro textured tools in machining of Ti-6Al-4V under cryogenic conditions.

B. Tech (Mechanical Engineering)

Department of Mechanical Engineering, Rajasthan Technical University, Rajasthan, India

July 2006-May 2010

List of Publications

Journals

1. Devarshi Kashyap, Kishore Kumar Padi, S Kanagaraj, 4D printed porous radiopaque shape memory polyurethane for endovascular embolization. *Additive Manufacturing* 24 (2018); 687-695. <https://doi.org/10.1016/j.addma.2018.04.009>
2. Devarshi Kashyap, Surendra Gaur, S Kanagaraj, Development of hybrid shape memory polyurethane composites for endovascular applications. *Materials Today Communications* 22 (2020); 100751-100643. <https://doi.org/10.1016/j.mtcomm.2019.100751>

Book Chapter

1. Devarshi Kashyap, S Kanagaraj, Injectable biomaterials for endovascular applications, in: Anandhan Srinivasan, Sri Bandyopadhyay (Eds.), *Advances in Polymer Materials and Technology*, CRC press, 2016: pp. 641-658, <http://dx.doi.org/10.1201/9781315371054-35>
2. Devarshi Kashyap, Charan Mukundan, S Kanagaraj, Manufacturing and characterization of shape memory polymer and composites, in: Kishore Debnath, Inderdeep Singh (Eds.), *Primary and Secondary Manufacturing of Polymer Matrix Composites*, CRC press, 2017: pp. 43-74. <https://doi.org/10.1201/9781351228466-3>
3. Devarshi Kashyap, Vaibhav Jaiswal, S Kanagaraj, Biomaterials for biomedical devices and implants, in: Vimal Katiyar, Raghendra Gupta, Tabli Ghosh (Eds.), *Advances in Sustainable Polymers: Processing and Application*, *Materials Horizons: From Nature to Nanomaterials*, Springer, 2019: pp. 85-109. https://doi.org/10.1007/978-981-32-9804-0_5

International Conferences attended

1. Devarshi Kashyap and S. Kanagaraj, 3D Printed custom shaped radiopaque shape memory composites as embolic materials for the treatment of cardiovascular malformation, World Congress on Cardiac Sciences, November 2018. (Poster)
2. Devarshi Kashyap and S Kanagaraj, 3D printed shape memory polyurethane foam for endovascular embolization, 6th Asian Biomaterials Congress (ABMC6), October 2017. (Oral)
3. Devarshi Kashyap and S. Kanagaraj, Shape memory polymers for morphing wings, International Workshops, Conferences and Expo for Military and Marine Applications (IWCEM 2016), June 2016. (Oral)
4. Devarshi Kashyap and S. Kanagaraj, Development of nano-barium sulfate filled shape memory polymer composite for endovascular embolization, Indo-Australian conference on biomaterials, tissue engineering, drug delivery system and Regenerative medicine (BiTERM-2016), April 2016. (Poster)
5. Devarshi Kashyap and S. Kanagaraj, Influence of nano BaSO₄ particles on the mechanical properties of shape memory polyurethane for the endovascular applications, Indo-Australian conference on biomaterials, tissue engineering, drug delivery system and Regenerative medicine (BiTERM-2015), February 2015. (Oral)

National Conferences attended

1. Devarshi Kashyap and S. Kanagaraj, Radiopaque shape memory polymers for minimally invasive embolization, National conference on Emerging Biomaterials (NCEB-2016), October 2016. (Oral)

Awards

1. Awarded **Prof S. Rajeswari award for best presentation:** Devarshi Kashyap and S. Kanagaraj; Radiopaque shape memory polymers for minimally invasive embolization.; National conference on Emerging Biomaterials (NCEB-2016), October 2016.

Skills

Solidworks, CATIA, Microsoft Visio

Sponsored Research Work

Project Title	Worked as	Funding Agency	Amount	Co - Principal investigator	Duration
Development of novel endotracheal tube holder for better management in invasive ventilation	Principal investigator	NPIU - MHRD	₹17,00,000	S Kanagaraj, IITG Dr. Apurba Kumar Borah, Narayana Hospitals	1.5 years Sep 2019 - March 2021

Training/Workshops

Short Term Course (STC) attended:

S No.	Title of the Course	Organizer	Course Duration
1	Project Management	Department of Mechanical Eng., AEC Guwahati	1 week (3-7 February 2020)
2	Quality and Quality Engineering	Department of Mechanical Eng., AEC Guwahati	1 week (3-7 December 2019)
3	Advancement in Mechanical Engineering	Department of Mechanical Eng., GIMT Guwahati	1 week (23-27 September 2019)

4	Advanced Pedagogy & Digital Tool for TEQIP Faculty Members	IITKgp Kharagpur	1 week (01-05 July, 2019)
5	Clean Energy Technologies	Centre for Energy, IITG, Guwahati	1 week (10-14 June 2019)
6	Current status and requirements of Biomedical Devices	Department of Mechanical Eng., IITG, Guwahati	1 week (25-29 March 2019)
7	Recent Advancements in Welding and Allied Processes	Department of Mechanical Eng., AEC Guwahati & PSG College of	2 weeks (13-24 August 2018)
8	Faculty Induction Workshop	Continuing Education Cell & Centre for Educational Technology, IITKgp Kharagpur	1 week (06-10 February, 2018)
9	3D printing: A disruptive technology of this era	IITB, Bombay	2 days

Conference/Workshop/Seminar attended:

S No.	Title	Organizer	Course Duration
1	Additive Manufacturing 2013	Additive Manufacturing Society of India	2 days
2	National workshop on advanced probing technique in TEM	IITG, Guwahati	2 days
3	Extended Rheology Characterization	Anton Paar/ IITG, Guwahati	1 day

Conference/Workshop/Seminar organized:

S No.	Title	Course Duration
1	TEQIP III sponsored Hands-on workshop on Internet of Things (IOT)	24 th – 26 th February 2020
2	TEQIP III sponsored Faculty Development Program on 3D printing	25 th – 29 th November 2019
3	TEQIP III sponsored Workshop on ANSYS	29 th October to 9 th November 2019.
4	TEQIP III sponsored seminar on creativity in design and innovation at the grass root level	17 th February 2018
5	TEQIP III sponsored seminar on Environment, Air pollution and Noise	23 rd February 2018
6	TEQIP III Hands on Workshop on Fundamentals of MATLAB	3 rd – 6 th April 2018