

Full Name of the Faculty	Dr. Heli Amit Shah
Designation	Associate Professor and Dean(R&D)
Email id	helishah.ee@bitseducampus.ac.in
contact number	+91-9904444883
Total Experience	
Teaching (years,months)	10 Years, 01 Month
Research (years, months)	03 Years, 06 Months
Professional Summary	<p>Working as an Associate Professor of Electrical engineering Department and Dean (R&D) of BIT since 2016.</p> <p>Worked at various positions like Paper setter at GTU, Life member of ISTE, Life member of Society of Power Engineers, Life Member of IEEE, Member of e-Yantra Team BIT,</p>
Current Activities	<p>Dean (R&D) at BIT, Looking after Start-up and Innovation activities at BIT</p> <p>Associate Professor of the Electrical Engineering Department-BIT,</p> <p>Member of e-Yantra (an initiative of MHRD) Team of BIT</p>
Specialization Areas	<p>Power Electronics and Drives</p> <p>Automatic Control and Robotics</p> <p>Digital Signal Processing</p>
Subject Taught (UG/PG)	<p>Control System Engineering</p> <p>Signals and Systems</p> <p>Basic Electronics</p> <p>Digital Electronics</p> <p>Advance Power Electronics</p>
Qualifications	<p>Ph. D. (Electrical) - 2015</p> <p>Sardar Vallabhbhai National Institute of Technology, Surat</p> <p>M.E. (Electrical – Automatic Control and Robotics) – 2005</p> <p>Faculty of Technology and Engineering, The M. S. University of Baroda, Vadodara</p> <p>B.E. (Electrical) – 2003</p> <p>Gujarat University, Ahmedabad</p>
Skills	<p>Well versed in simulation software like MATLAB, P-SIM, word processing software like LaTeX,</p> <p>Basics of Arduino microcontroller and its applications,</p> <p>Firebird-V robot and its programming through embedded-C (AVR studio)</p>
Achievements	<p>Gold medal for securing first rank at M.E. (Electrical-ACR) at M.S. University of Baroda - 2005</p>
Research Project Publications	<p>NIL</p> <ol style="list-style-type: none"> 1. “New Three-Dimensional Space Vector based Switching Signal Generation Technique without Null Vectors and with Reduced Switching Losses for a Grid-Connected Four leg Inverter”, IEEE Transactions on Power Electronics, Vol. 31, No. 2, pp. 1026-1035

2. "Reactive Power Compensation in Three Phase Four Wire System Using Shunt Compensator with A Modified Three-Dimensional Space Vector Switching Technique", ACEEE International Journal of Electrical and Power Engineering
3. "A Modified Three-Dimensional Space Vector based PWM Method for Four-Leg Voltage Source Inverter Fed Asymmetrical Two-Phase Induction Motor" at IEEE PEDS 2011, Singapore
4. "Comparative techniques of Switching Signal Generation Techniques for Three Phase Four wire shunt Active Power Filters" at IEEE IEMDC 2011, Canada
5. "Simulation of Three Phase Four Wire Shunt Active Power Filter using Novel Switching Technique" at IEEE PEDES conference 2010

Activities and honours

Appointed as reviewer for papers submitted for IEEE Transactions on Transport Electrification (International Journal with Impact Factor of 4.7)

Grant Received

Rs 100000 worth robotic kits received on successful completion of e-yantra task-based training at IIT-Bombay