

Raj L. Desai
Professor & Chair, McCoy School of Engineering
Midwestern State University
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EDUCATION

MBA, University of Texas, Permian Basin (UTPB), Odessa, TX.
Doctor of Industrial Technology, University of Northern Iowa, Cedar Falls, IA.
M.S., Electrical Engineering, Texas A&M University, College Station, TX.
B.E., Electronics Engineering, Bangalore University, Bangalore, India.

RECENT ACADEMIC APPOINTMENTS

2015-Present Chair, McCoy School of Engineering, Midwestern State University

- Teach in ABET accredited engineering program (8 faculty & 4 staff)
- Started new online BAAS Technology (TECH) & BS Industrial Technology Programs
- Proposed new Electrical Engineering & MS Industrial Technology Programs

2011–2015 Chair, Undergraduate Studies, College of Business and Engineering, UTPB

- Developed and taught in BSIT & BAAS online degree program (90 students)
- Assisted in development of online Management & Marketing BBA Programs

2009 – 2011 Chair, Dept. of Engineering & Technology, School of Business, UTPB

- Started Mechanical Engineering Program in 2009 (250 students)
- Started Petroleum Engineering Program in 2011 (300 students)

2004 – 2009 Coordinator, Industrial Technology Program, School of Business, UTPB

- Started Industrial Technology Program in 2004
- Started Engineering Transfer Program in 2006
- Coordinated two million dollar building renovation in 2007

RECENT OTHER POSITIONS

1997 (June-August) Summer Faculty Intern, IBM, Research Triangle Park, North Carolina

- Assisted with development of a new network computer.

RECENT COURSES TAUGHT

Now Teaching: Intro to Engineering, Engineering Graphics, Electric Circuits, Solid Modeling, & Intro to Engineering Design.

Recent Courses Developed and Taught: Quality, Safety, Managing Technology, Innovation (Entrepreneurship), Manufacturing Technology, Project Management, Environmental Technology, Energy Technology, Facilities Design, Technology & Society, Production Planning & Control, Construction Technology, Supply Chain Management, and Petroleum Fundamentals.

New Courses Developed: Resource Planning, Product Development, Managing Change in Industry, Industrial Organizational Change, Competition and Innovation, Communication in Industry, Design for Manufacturing, Global Production, and Research Methods in Industry.

MEMBERSHIPS IN PROFESSIONAL SOCIETIES

Texas Computer Education Association (TCEA), International Association of Innovation Professionals (IAOIP), Council on Undergraduate Research (CUR), Society of Automotive Engineers (SAE), and Sigma Beta Delta.

RECENT PROFESSIONAL SERVICE

2017-Present Wichita Falls Chamber of Commerce, Manufacturer's Group.
2017-Present Reviewer for Academic Leadership Journal; Journal of Engineering Technology; International Journal of Innovation Science; & Journal of Engineering Education.
2018-2024 Wichita Falls ISD Engineering Advisory Committee.
2016-2023 Host for TCEA Area 9 Robotics Competition on MSU Campus.

RECENT UNIVERSITY SERVICE

2021 - 2022 University Enrollment & Retention Task Force
2018 - Present Judge, ideaMSU, Dillard College of Business Administration
2018 - 2022 Environmental Health, Safety and Risk Management Committee
2017 – Present Campus Security Authority (CSA), BAAS Advisory Committee
2016 - Present Chair, School of Engineering, Faculty & Staff Search Committee
2015 – Present Reviewer, Undergraduate Research at MSU Texas

RECENT REFERRED PUBLICATIONS

- Desai, R. 2025, Innovative Graduate Technology Program for Upward Mobility, International Journal of Multidisciplinary Comprehensive Research.
- Desai, R. 2022. Service Learning Projects to Improve Senior Citizen Mobility, International Journal of Multidisciplinary Research and Growth Evaluation.
- Desai, R. 2022. Model Online Industrial Technology Programs, Journal of Multidisciplinary Engineering Science and Technology.
- Desai, R. 2021. Technology Programs for the Working Professional, Journal of Environmental Science, Computer Science and Engineering & Technology.
- Desai, R. 2020. Planning, Developing, and Implementing Service Learning Projects. Journal of Innovative Ideas in Engineering and Technology.
- Desai, R. 2019. Implementing 3D Printing in the Curriculum. Journal of Quality Management Systems, Applied Engineering, and Technology Management.
- Desai, R. 2019. Adapting to Change: Designing Collapsible Products for Space Optimization. Journal of Quality Management Systems, Applied Engineering, and Technology Management.
- Desai, R. 2018. Project Based Innovation to Improve Pallet Recycling. American Journal of Engineering Research, Volume 7, Issue 3.

- Desai, R. 2017. Teaching Innovation to Freshman Engineering Students. Journal of Quality Management Systems, Applied Engineering, and Technology Management, Volume 7, Issue 2.
- Desai, R. 2016. Online Education for the Working Professional. International Journal of New Technologies in Science and Engineering, Vol. 3, Issue 1, January 2016, ISSN 2349-0780.

RECENT REFERRED PROCEEDINGS

- Desai, R. 2025, Improving Retention in STEM Programs, 2025 ASEE-GSW Conference, UT Arlington, March, 2025
- Desai, R. 2024, Projects for Waste Reduction in an Intro to Engineering Course, 2024 ASEE-GSW Conference, Canyon, March, 2024
- Desai, R. 2023. Online 2 + 2 + 2 Technology Programs for Upward Mobility, Industrial Engineering and Operations Management (IEOM) Conference, Houston, June, 2023.
- Desai, R. 2019. Innovative Designs for Space Optimization. ASEE Gulf Southwest Annual Conference Proceeding.
- Desai, R. 2018. Projects for Pallet Recycling in a Solid Modeling Course. ASEE Gulf Southwest Annual Conference Proceeding.
- Desai, R. 2017. Innovative Projects by Freshmen Engineering Students. International Conference on Industrial Engineering & Technology Management Conference Proceeding.
- Desai, R. 2017. Teaching Innovation to Freshmen Engineering Students. ASEE Gulf Southwest Annual Conference Proceeding.
- Desai, R. 2016. Online Technology Education for the Working Professional. ASEE Gulf Southwest Annual Conference Proceeding.

RECENT REFERRED PRESENTATIONS

- Desai, R. 2025, Improving Retention in STEM Programs, 2025 ASEE-GSW Conference, UT Arlington, March, 2025
- Desai, R. 2024, Projects for Waste Reduction in an Intro to Engineering Course, 2024 ASEE-GSW Conference, Canyon, March, 2024
- Desai, R. 2023. Online 2 + 2 + 2 Technology Programs for Upward Mobility, Industrial Engineering and Operations Management (IEOM) Conference, Houston, June, 2023.
- Desai, R. 2021. Robot Programming to Simulate Warehouse Logistics, International Mechatronics Conference, Oklahoma State University, Oklahoma City, Sept., 2021.
- Desai, R. 2021. Technology Programs for the Working Professional, International Mechatronics Conference, Oklahoma State University, Oklahoma City, Sept., 2021.
- Desai, R. 2021. Technology: Out with the Old and In with the New, American Studies Association of Texas Conference, Midwestern State University, Wichita Falls, November, 2021.
- Desai, R., Innovative Designs for Space Optimization. ASEE Gulf Southwest Annual Conference, March 2019.
- Desai, R., Innovative Projects Using Recycled Pallets. ASEE Gulf Southwest Annual Conference, April 2018.
- Desai, R., Innovative Projects by Freshmen Engineering Students. International Conference on Industrial Engineering & Technology Management Conference, April 2017.

- Desai, R., Online Technology Education for the Working Professional. ASEE Gulf Southwest Annual Conference, March 2016.

RECENT PROFESSIONAL DEVELOPMENT ACTIVITIES

- Attended presentation on Intellectual Property Law on April 24, 2025.
 - Visited Westlake Pipe & Fittings, Wichita Falls, on April 11, 2025.
 - Completed CSA and Title IX Training on March 28, 2025.
 - Attended online courses training on “ADA Compliance for PowerPoints” on March 24, 2025.
 - Attended presentation on Nonprofit Board Essentials presented by the Center for Nonprofit Management & Leadership on March 4, 2025.
 - Attended General Counsel Supervisory Training on February 8, 2024.
 - Attended a presentation on Texas Power Grid by Mike Hoke, Director, Public Engagement, Texas Public Utilities Commission on November 7, 2023.
 - Attended TLRC September workshop, “Empowering Educators: Navigating AI in the Classroom” on October 19, 2023.
 - Attended UT RGV Latina THRIVE Summit, May 18-19, 2023.
 - Attended “First Year Mustangs Adventure” faculty mentors training on April 22, 2023.
 - Attended “Assessment Overview Training” on Wednesday, April 19, 2023.
 - Visited Magic Aire in Wichita Falls on Friday, April 14, 2023.
 - Attended “Emergency Preparedness” presentation on September 27, 2022.
 - Completed Chemical Hygiene Plan Training on August 27, 2022.
 - Completed CSA and Title IX Training on March 19, 2022.
 - Attended online “Next Generation Manufacturing Workshop” from July 12 - 15, 2021.
 - Attended ABET Institutional Representative Webinar on August 18, 2020.
 - Attended NSULA “Risk-Mitigation” virtual workshop on July 28, 2020.
 - Attended “Creating a Service Learning Designated Course” on January 15, 2020.
 - Visited Pratt & Whitney in Wichita Falls on August 22, 2019.
 - Visited Toyota Manufacturing Plant in San Antonio on July 25, 2019.
 - Visited H.E.B. Distribution Center in San Marcos on July 24, 2019.
 - Visited WPT Power in Wichita Falls on May 15, 2019 to discuss a senior design project.
 - Attended Senior Design presentation at Howmet Aerospace on May 9, 2019.
 - Attended Water Quality Monitoring Training on January 16, 2018.
 - Attended Wichita Falls Chamber Economic Development Meeting on August 9, 2017.
 - Attended Dr. Ray Perryman’s Economic Development presentation on August 3, 2017.
 - Completed “Preparing Online Instructors” course on June 6, 2016.
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