

MAMIDALA RAMULU

UNIVERSITY SERVICE:

2008-Present	Search Committee, Edge Director, UW Extension Programs
1998-2004	Senate Committee on Minority Faculty Affairs
1996-1997	Senate Faculty Committee on Educational Outreach
1990-1992	Faculty Senate
1988-1989	College of Engineering UW Branch Campus Planning Committee
1986-present	Graduate Faculty
1980-1981	Student Residences Advisory Committee
1980-1981	Elected Senator to Graduate and Professional Student Senate (GPSS), University of Washington, Seattle, WA 98195, USA

COLLEGE SERVICE:

2003-present	College Promotion and Tenure Committee
2000-2002	BS/MBA Program Committee
2000-present	EDGE (Distance Education) Advisory Board
2000-2003	Electron Microscopy Center Committee
1999-2000	John Fluke Manufacturing Chair, Review Committee
1998-present	Faculty Advisory Board on Women in Engineering
1997-present	College of Engineering Steering Committee on Boeing MS program in Manufacturing
1988-present	Industrial Advisory Board of the Minority Science and Engineering Program
1997-1998	Search Committee, Industrial Engineering Student Advisor
1987-1988	Minority Students Scholarship Committee, College of Engineering
1987-1988	Chairman , College of Engineering Student and Faculty Achievement Awards Committee
1986-1987	College of Engineering "Outstanding Teachers Awards" Committee

DEPARTMENT OF MECHANICAL ENGINEERING COMMITTEES:

2004-2007	MMM Group Co-ordinator
2006-2007	Faculty Awards Committee
2005-2007	Faculty Affairs Committee
2000-2005	Graduate Education Committee
1998-1999	Faculty Search Committee
1998-2003	Departmental Promotion Advisory Committee
1998-present	Co-administer of Fellowships from the A.S.K. Endowed Fund
1996-1998	Group leader , Mechanics, Materials & Manufacturing
1997-present	Chairman , Committee on Albert S. Kobayashi Endowed Scholarship
1997-1998	Graduate Students Admission Committee
1997-present	ME Advisor , Boeing MS program in Manufacturing
1996-2003	Collegial Evaluation of Teaching Effectiveness Committee
1996-2001	Chairman , Collegial Evaluation of Teaching Effectiveness Committee
1996-1997	Search Committee, Instructional Technician
1993 -1995	Undergraduate Education Committee
1991-1994	Collegial Evaluation of Teaching Effectiveness Committee
1989-1993	Faculty Affairs Committee (Chairman)
1991-992	Subcommittee on Merit Review of Full Professors
1990-1991	Faculty Search Committee (Energy and Fluids)
1988-1990	Undergraduate Student Admissions Committee
1987-1988	Secretary to Mechanics and Materials Group
1987-1988	Secretary to Research & Resource Committee
1986-1989	Research and Resource Space Distribution Subcommittee
1985-1989	Research and Resource Committee
1986-1989	Faculty Search Committees (Manufacturing Processes and Design)
1985-1987	MS/MSE, Manufacturing Systems Engineering Degree Program Committee

TEACHING: Subjects Taught (1982-Present):

Undergraduate Courses:

ENGR 210	Engineering Statics
ENGR 220	Introduction to Mechanics of Materials
ENGR 498	Special Topics in Engineering
MEIE 315	Statistical Analysis of Engineering Measurements
ME 304/355	Manufacturing Processes
ME 352	Mechanics of Solids
ME343	Mechanical Behavior of Materials
ME 353	Machine Design
ME 403	Material Removal Processes
ME 409	Introduction to Numerical Control and Computer-aided Manufacturing
ME 434	Advanced Mechanical Engineering Laboratory
ME440	Advanced Strength of Materials
ME 445/459	Fracture of Engineering Materials
ME 469	Applications of Dynamics in Engineering
ME 499	Senior Research Projects

Graduate Courses:

ME 501	Modern Manufacturing Processes
ME 502	Plastic Metal Forming
ME 518	Advances in Manufacturing and Management Seminars
ME 541	Advanced Engineering Materials
ME 542	Topics in Engineering Materials (New Title: Durability/Damage Tolerant Design)
ME 551	Applied Elasticity
ME 559	Applied Fracture Mechanics
ME 560	Advanced Theory of Fracture
ME599D	Nontraditional Machining Processes
ME 599	Special Projects
ME 599P/518	Seminars in manufacturing and Management

Modernized and Updated Mechanics, Materials & Manufacturing Courses:

ME 304	Manufacturing Processes
ME 355	Introduction to Manufacturing Processes
ME 343	Mechanical Behavior of Materials
ME 403	Material Removal Processes
ME 459	Introduction to Fracture Mechanics
ME 502	Plasticity and Metal Forming
ME 541	Fatigue of Materials

New Courses Originated and Taught

ME 409	Introduction to Numerical Control and Computer-aided Manufacturing
ME 501	Modern Manufacturing Processes
ME 518	Advances in Manufacturing and Management Seminars
ME 599E	Nontraditional Machining Processes
ME 599MR	Machining Science and Surface Integrity of Advanced Composites
ME 599	Tooling for Composite Manufacturing

Laboratory Development

ME 304	Manufacturing processes
ME 343	Mechanical Behavior of Materials
ME 409	Numerical Control machining and CAM

Televised / (Web Streaming Videos) Graduate Courses:

ME403	Material Removal Processes (Also broadcasted on the Web)
ME 445/459	Introduction to Fracture Mechanics
ME 501	Modern Manufacturing Processes
ME 502	Plasticity and Metal Forming
ME 518	Advances in Manufacturing and Management Seminars(Broadcasted on the Web)
ME 541	Advanced Engineering Materials
ME 559	Fracture Mechanics-I
ME 560	Advanced Theory of Fracture-II
ME 599MR	Machining Science and Surface Integrity of Advanced Composites

Continuing Education Courses:

EIT Refresher Course on Engineering Dynamics (Winter 1983)
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PHD AND MASTERS THESIS SUPERVISORY COMMITTEE

Member of Supervisory Committee

MS Thesis Committee, 48
PhD Advising Committee, 19
PhD Supervisory Committee, 32

Advisor or Chairman

Independent Research Students: 104

Seniors: 76

Graduate Students: 28

Masters Non-Thesis Students: 38

Graduated: 36

Current: 2

Masters Thesis Students in total **105** (that includes four women and the First American Indian MS in ME and Two Industrial Engineering Students)

Graduated: **99** (Supported Financially: 74/92 in ME)

Current: 5

Withdrawn from University (1988): 1

Doctoral Students: **22**, Currently supporting 3 Financially

Graduated: 13 (Supported Financially)

Current : 8

Withdrawn from University (1991) after PhC: 1

PEDAGOGICAL MEETINGS& ACTIVITIES RELATED WITH EDUCATION:

- *Manufacturing Technology Seminars*, organized by Washington Technology Center, Seattle, November 1985
- *Modern Manufacturing Processes Seminars*, organized by Bellevue Community College, Bellevue, Winter 1986.
- *Numerical Control Machining*, Shoreline Community College Spring and Summer 1986
- *Workshop on Artificial Intelligence in Manufacturing, and Computer Applications in Jig and Fixture Design*, WESTECH '86, Machine Tool Conference, Organized by the Society of Manufacturing Engineering and American Society for Metals, Los Angeles, March 1986.
- National Science Foundation *Workshop on Material Processing and Modern Manufacturing Processes*, Minneapolis, Minnesota, May 1986.
- 81st National Congress of Tau Beta Pi, Engineering Honors Society, Iowa State University, Ames, Iowa, October 13-17, 1988
- *Emerging Trends in NDE*, WESTECH '90, Los Angeles, March 22-26, 1990.
- *Smart Structures* a Tutorial class at 1992 International Congress on Experimental Mechanics, held in Las Vegas, NV, June 3-8, 1992
- *A Workshop on Faculty Mentoring*, Organized by Women in Engineering (WIE), University of Washington, Seattle, April 16, 1997
- *Annual Conference of Women in Engineering*, Organized by Women in Engineering (WIE), University of Washington, Seattle, January, 24 1998

COURSES OR WORKSHOPS CONDUCTED:

- *Introduction to Finite Element Methods* a course was given to Fatigue and Fracture Mechanics Group at Defence Metallurgical Research Laboratory (DMRL), India, Nov-December 1995
(Host: Dr. Malakondaiah, DMRL; Dr. P. Rama Rao, DRDO)
- *Advanced Composites- Challenge in Machining*: a course was given at, Defence Research and Development Laboratory (DRDL), Hyderabad, India, February 1996.
(Host: Rohini Devi, DRDL: Dr. Abdul Kalam DRDO)
- *Fracture Mechanics : Basics and Applications in Process Industries* a Course was given at Indian Institute of Chemical Technology (IICT), India, March 5, 1996
(Host: Deputy Director, IICT)
- *Physics of Abrasive Waterjets* a Course lecture was given in the High Pressure Waterjets Short course held in Hilton Hotel, Minneapolis, MN August 19, 2001
(Host: Dr. M. Hashish , American Waterjet Technology Association)
- *Fracture and Failure Analysis* a Course lecture was given to ASM International Puget Sound Chapter Short course held in Fatigue Technology, Inc, 401 Andover Park East, Tukwila, WA , March 16, 2002
(Host: Dr J. Cotton, ASM Int, Puget Sound)

- *Fundamentals of Fracture Mechanics* a course was given at Defence Metallurgical Research Laboratory (DMRL), India, Dec 2007-February 2008
(Host: Dr. Malakondaiah, Director DMRL)