

Name : AMITAVA MANDAL
Date of Birth: 07.06.1960

Academic Performance:

| Examination Passed/Degree | Board/University | Year of Passing | Division /Class |
|---------------------------|------------------|-----------------|--|
| B.Tech (Mech. Engg.) | I.I.T.Delhi | 1983 | I |
| M.Tech.(Prod.Engg.) | I.I.T.Delhi | 1986 | CGPA 9.75/10 (Class is not awarded) |
| PhD. | I.I.T.Delhi | 1993 | - |

Industrial & Teaching Experience

| Name of the organization | Designation | Period of service | |
|--------------------------|--------------------------------|-------------------|-----------|
| | | From | To |
| O.N.G.C | A.E.E.(Mech.) | Aug',1983 | July,1984 |
| B.E.M.L | Development Engineer (R&D) | June,1986 | July,1987 |
| N.I.F.F.T | Assistant Professor ,M.E.Dept. | June,1993 | Feb.,2005 |
| N.I.F.F.T | Professor,M.E.Dept | Feb.,2005 | - |

Subjects taught:

1. Welding Technology (B.Tech & M.Tech.)
2. Finite Element Method and Applications(B.Tech.& M.Tech.)
3. Modern Methods of Manufacture (B.Tech.)
4. Modern Machining Processes (M.Tech.)
5. Industrial Engineering & M.R.P. (part of) (B.Tech.)
6. Computer Aided Engineering (part of) (M.Tech.)
7. CNC & Programming (M.Tech)
8. Advanced Welding Technology (B.Tech)
9. Non Traditional Machining (M.Tech.)

PhD. Guidance - 3

M.Tech. Project Guidance - 28

Research Areas: Design of experiments, Nontraditional machining, mathematical modeling, welding

Publications

Journal – 30
Conference/seminar - 9

Some of the Other Academic Activities

Curriculum Development

1. Prepared the DPR for starting B.Tech in Mechanical Engineering – submitted to AICTE (2006)

2. Prepared the DPR for starting B.Tech in Mechanical Engineering& M.Tech in CAD/CAM – submitted to AICTE (2007)
3. Developed the Course structure and detailed syllabi of B.Tech in Manufacturing Engineering – it has been adopted by management (2012-13).
4. Ordinances and Regulations of Master of Technology (M. Tech.) and PhD Programmes were prepared and have been adopted by management (with major contribution from Dr.G .Rajamohan) (2011-12)
5. Developed the Course structure and detailed syllabi of M.Tech in Manufacturing Engineering – it has been adopted by management (2008-09). Revised course structure and detailed syllabi of M.Tech in Manufacturing Engineering is also developed (with major contribution from Dr.G .Rajamohan)(2013-14)
6. Prepared a concise DPR for introduction of B.Tech. Course in Mechanical Engineering. It is submitted to MHRD in July, 2012.

Laboratories Developed:

1. Welding Laboratory

Machines Procured

1. Eutectic –Castolin SMA power source along with attachments for Stick electrodes & TIG torch. (1995)
2. Air Plasma Arc Cutting unit (1995)
3. Submerged Arc Welding machine (1996)
4. Oxy-acetylene Spray Coating unit (1996)
5. Pug (oxy-acetylene) Cutting machine (1996)
6. Pulse MIG welding (KEMPI) (2007)
7. BX-41 Olympus Microscope + digital Camera (2007)
8. LM-700 LECO Microhardness Tester (2007)
9. Analysis Five Pro- Image Analysis Package (2008)
10. DT-800 Data logger (2007)
11. Polishing Equipment (2007)
12. Abrasive Cutter (2007)
13. Abrasive Belt Grinder (2007)

2. CAD/CAM Laboratory

Software Packages Procured.

1. CSM.NASTRAN, CSM.GENSA & FEMAP(1999)
2. MICROSTATION MODELER(1999)
3. ESPIRIT(1999)
4. QUEST (1999)
5. MATLAB (09 modules)(2001)
6. MSC. MENTAT & MSC.MARC (2002)
7. MSC Tokens (2007)
8. DEFORM -3D(2007)
9. Intel Visual Fortran(2007)
10. Design Expert (2014)

Hardware Procured

1. High end computer (2001)
2. Computer Workstations (2007)

3. Modern Machining Laboratory

Electrochemical Machining unit (2005)

Equipment procured for other laboratories

Machine Shop: Dynamometer for cutting force measurement.

Computer Center:

1. FEM software package – NISA along with a server. (1999)
2. Involved in purchase of LAN Systems in Computer Center as one of the indenters.(1994)
3. Involved in installation of LAN Systems in Computer Center (II) (2007)

Metrology Laboratory

1. Hommel T-8000 Roughness +contour (2008)

Short Term Courses/Unit Based Courses:

1. Contributed in a number of short term courses on Metrology and Dimensional Inspection & Material Characterization Testing And Quality Assurance as faculty member.
2. One of the members in the unit based course organized at RDCIS, Ranchi, 17-19, June, 2004.
3. Conducted one short term course (5 days) for industry on Introduction to Finite Element Method and its Application to Forging Industries, 2005.

Some of the administrative assignments:

1. Course Coordinator & Centre Superintendent for B.Tech. Courses for five years till 1.1.2002
2. Hostel Warden 1.1.2002 -2004
3. Additional charge of Chief Hostel Warden November,2003-30.06.2004
4. Chairman, Committee for facilitating purchase November,2003
5. Incharge ,Training & Placement Cell July,2004- June,2007
6. Chairman, NIFFT NIWAS Nov.,2005-July,2006
7. Head, DASH August, 2006- July,2007
8. Chairman Purchase Committee October, 06-January,08, August,09- July,15
9. Head, Manufacturing Engineering Department August, 08 – July,11
10. Chairman, Academic Affairs June,2011- 03.12.12
11. Dean (Academic) 04.12.12- 15.12.14
12. Chairman, Screening Committee for MACP July,2013
13. Chairman, Committee for framing Rules and Regulations for Vacation Leave for Faculty members – framed and implemented, 2008
14. Framed rules and regulations for CPDA for faculty members implemented in 2012
15. Recruitment rules for non-faculty position October, 2018