

FACULTY PROFILE



NAME	Syed Amir Iqbal.
E-MAIL	cid@neduet.edu.pk
DESIGNATION	Professor & Chairman
ROOM NO.	3 (Ground floor IMD Building)
PHONE NO.	99261261-68
EXTENSION	2410 & 2361
EDUCATION	<ul style="list-style-type: none">• Ph.D.(Mechanical Engineering) School of MACE, The University of Manchester United Kingdom. Thesis title: Experimental and Finite Element Modelling of High Speed Machining process: Establishing integrity of model inputs.• M.E.(Mechanical Engineering) NED University of Engineering & Technology Major in Manufacturing Systems Achieved a CGPA of 3.91 out of 4.0• B.E.(Mechanical Engineering) NED University of Engineering & Technology Achieved 81% marks.
RESEARCH INTEREST	<ul style="list-style-type: none">• Finite Element Modelling and Analysis• High speed machining process• Metal cutting processes• Metal forming processes• Cutting tool coatings
EXPERIENCE (Teaching/Research/Industrial)	<ul style="list-style-type: none">• Full time 1998 - till date NED University of Engg. & Tech. Karachi, Pakistan

	<p>Department of Mechanical / Industrial and Manufacturing Engineering In the capacity of Lecturer to Professor Engaged in teaching of undergraduate level classes. Supervising undergraduate projects</p> <ul style="list-style-type: none"> • 1994 – 1998 Pakland Cement Ltd, Karachi, Pakistan Engaged in maintenance activities of heavy mechanical plant. • Part Time 2005 - 2008 Teaching Assistant School of MACE, The University of Manchester. Engaged in performing labs and marking under- and post-graduate lab reports.
<p>PUBLICATIONS</p>	<p>1.S. A. Iqbal, P. T. Mativenga and M. A. Sheikh. (2007) "Characterization of the Machining of AISI 1045 steel over a wide range of cutting speeds-Part 1: Investigation of contact phenomena", 909-916, 221(5), Proc. IMechE Part B: Journal of Engineering Manufacture.</p> <p>2. S. A. Iqbal, P. T. Mativenga and M. A. Sheikh. (2007) "Characterization of the Machining of AISI 1045 steel over a wide range of cutting speeds-Part 2: Evaluation of flow stress models and interface friction distribution schemes", 917-926, 221(5), Proc. IMechE Part B: Journal of Engineering Manufacture.</p> <p>3. S. A. Iqbal, P. T. Mativenga, and M. A. Sheikh. (2008) "Contact length prediction: mathematical models and effect of friction schemes on FEM simulation for conventional to HSM of AISI 1045 steel", 3(1/2), 18-33Int. J. Machining and Machinability of Materials.</p> <p>4 S. A. Iqbal, P T Mativenga and M A Sheikh. (2008) "A comparative study of tool chip contact length of two engineering alloys for a wide range of cutting speeds", paper accepted for publication and appeared online in Intl. J. Advanced Manufacturing Technology.</p> <p>5. S. A. Iqbal, P. T. Mativenga and M. A. Sheikh (2008) "An investigative study of interface heat transfer coefficient for the FE modelling of High Speed Machining process", 1405-1416, 222, Proc. IMechE Part B: Journal of Engineering Manufacture.</p>

	<p>Conference Publications</p> <p>1. S. A. Iqbal, P. T. Mativenga and M. A. Sheikh. "An evaluation of flow stress material models of AISI1045 for high speed machining", 331-336, in proc. 4th International Conference on Manufacturing Research –ICMR-2006, Liverpool, UK.</p> <p>2 S. A. Iqbal, P. T. Mativenga and M. A. Sheikh "A sensitivity study of the effects of interface heat transfer coefficient on FE modelling of machining process for a wide range of cutting speeds", 675-682, in porc. 6th International Conference on Manufacturing Research – ICMR-2008, Brunel University, Middlesex, UK</p>
TAUGHT COURSES	<ul style="list-style-type: none"> • Engineering Drawing • Machine Design • Computer Aided Design (CAD) • Advanced Manufacturing Processes. • Finite Element Analysis • Statistical Quality Control • Automated Manufacturing Systems
PROFESSIONAL MEMBERSHIPS	Pakistan Engineering Council(PEC)
AWARDS AND HONORS	<ul style="list-style-type: none"> • Attended and presented a research paper titled "An evaluation of flow stress material models of AISI 1045 for High Speed Machining", in 4th International Conference on Manufacturing Research, held at Liverpool John Moores University, Liverpool, UK, in 2006. • Actively participated in The University of Manchester, International Development Division Telephone Conversion Campaign for Pakistan, held in July-August 2006. • Attended and successfully completed a workshop titled "Developing Postgraduate Manager – Postgraduate Skills Training Workshop", held at The University of Manchester, conducted by Engineering and Physical Sciences Research Council (EPSRC), UK in June 2006. • Awarded Best University Teacher Award for the Year 2008 by Higher Education Commission (HEC) of Pakistan.