

CURRICULUM VITAE

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Education

Ph. D. 2010-2014	KARABÜK UNIVERSTY Graduate School of Natural and Applied Sciences / Department of Mechanical Education (Ph.D.) <u>Thesis Title:</u> Investigation of the effects of cryogenic treatment parameters on fatigue life and grindability of AISI 52100 steel <u>Supervisor:</u> Prof. Dr. Halil DEMİR <u>Co-Supervisor:</u> Prof. Dr. Adem ÇİÇEK
Master 2005-2009	AFYON KOCATEPE UNIVERSTY Graduate School of Natural and Applied Sciences / Department of Mechanical Education (M.Sc.) <u>Thesis Title:</u> Modelling of machining of AISI 316L stainless steel using finite element method <u>Supervisor:</u> Prof. Dr. Kubilay ASLANTAŞ
Undergraduate 2001-2005	DUMLUPINAR UNIVERSTY Simav Technical Education Faculty / Department of Mechanical Education (B.Sc.)

Positions & Employment

Assistant Professor 2014	DÜZCE UNIVERSITY / Technology Faculty / Department of Manufacturing Engineering
Research Assistant 2008-2014	DÜZCE UNIVERSITY / Tech. Education Faculty / Department of Mechanical Education

Graduate Theses Supervised

Master Theses

1. Mustafa KARABATAK, Effect to machinability of AISI D2 cold work tool steel of deep cryogenic treatment, DÜZCE UNIVERSITY (Resuming)
2. Aysun TAKMAZ, The optimization with Taguchi method of the effect of machinability of the cryogenic process applied to the cutting tools, DÜZCE UNIVERSITY (Resuming)

Tasks in Projects

1. Effect to Machinability of AISI D2 Cold Work Tool Steel of Deep Cryogenic Treatment, Project Coordinator, 26/11/2015 (Resuming) (National)
2. Investigation of Effects on Machinability of Cryogenic Process Applied Cutting Tools in Hot Machining of Hard Machining Materials, Researcher, 18/12/2013 - 29/12/2015 (National)

3. Investigation of Effects of Cryogenic Treatment on Surface Quality and Tool Life in Machining of AISI H13 Hot Work Tool Steels, Researcher, 28/04/2011 - 13/03/2015 (National)
4. Investigation of the Effects of Cryogenic Treatment Parameters on Fatigue Life and Grindability of AISI 52100 Steel, Researcher, 16/01/2012 - 15/11/2013 (National)
5. Rotor-Bearing System: Modeling, Experimentally Analyzing, and Utilizing Non-Traditional Optimization Techniques, Researcher, 08/04/2010 - 13/03/2015 (National)
6. Implementation of a Part Recognition Based Process Planning System to a CNC Machine Tool, Researcher, 09/05/2008 - 17/04/2015 (National)

Lessons*

Undergraduate

Semester	Lesson Name	Hours
(2015-2016)	Graduation Thesis	4
(2015-2016)	Workplace Training	4
(2015-2016)	Metal Cutting Principles	3
(2015-2016)	Computer Aided Drawing	4
(2015-2016)	Computer Aided Design	4
(2015-2016)	Basis Manufacture Processes	6
(2014-2015)	Workplace Training	4
(2014-2015)	Metal Cutting Principles	3
(2014-2015)	Computer Aided Drawing	4
(2014-2015)	Computer Aided Design	4
(2014-2015)	Basis Manufacture Processes	6

Graduate

Semester	Lesson Name	Hours
(2015-2016)	Machining Theory	3
(2015-2016)	Cad/Cam Applications	3
(2014-2015)	Machining Theory	3

* The last two years

Publications

Articles Published in Journals Indexed by SCI (SCI & SSCI & Arts and Humanities):

1. **Kara Fuat**, Aslantaş Kubilay, Çiçek Adem (2016). Prediction of cutting temperature in orthogonal machining of AISI 316L using artificial neural network. *Applied Soft Computing*, 38, 64-74., Doi: 10.1016/j.asoc.2015.09.034.
2. Çiçek Adem, **Kara Fuat**, Kıvak Turgay, Ekici Ergün, Uygur Ilyas (2015). Effects of Deep Cryogenic Treatment on the Wear Resistance and Mechanical Properties of AISI H13 Hot-Work Tool Steel. *Journal of Materials Engineering and Performance*, 24(11), 4431-4439., Doi: 10.1007/s11665-015-1712-x.
3. **Kara Fuat**, Aslantaş Kubilay, Çiçek Adem (2015). ANN and multiple regression method-based modelling of cutting forces in orthogonal machining of AISI 316L stainless steel. *Neural Computing and Applications*, 26(1), 237-250., Doi: 10.1007/s00521-014-1721-y.
4. Güneş İbrahim, Çiçek Adem, Aslantaş Kubilay, **Kara Fuat** (2014). Effect of Deep Cryogenic Treatment on Wear Resistance of AISI 52100 Bearing Steel. *Transactions of the Indian Institute of Metals*, 67(6), 909-917., Doi: 10.1007/s12666-014-0417-4.
5. **Kara Fuat**, Çiçek Adem, Demir Halil (2013). Multiple regression and ANN models for surface quality of cryogenically-treated AISI 52100 bearing steel. *Journal of the Balkan Tribological Association*, 19(4), 570-584.

6. Çiçek Adem, **Kara Fuat**, Kıvak Turgay, Ekici Ergün (2013). Evaluation of machinability of hardened and cryo-treated AISI H13 hot work tool steel with ceramic inserts. **International Journal of Refractory Metals and Hard Materials**, 41, 461-469., Doi: 10.1016/j.ijrmhm.2013.06.004.
7. Erkan Ömer, Işık Birhan, Çiçek Adem, **Kara Fuat** (2013). Prediction of Damage Factor in end Milling of Glass Fibre Reinforced Plastic Composites Using Artificial Neural Network. **Applied Composite Materials**, 20(4), 517-536., Doi: 10.1007/s10443-012-9286-3.
8. Özgören Yaşar Önder, Çetinkaya Selim, Sarıdemir Suat, Çiçek Adem, **Kara Fuat** (2013). Artificial neural network based modelling of performance of a beta-type Stirling engine. **Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering**, 227(3), 166-177., Doi: 10.1177/0954408912455763.
9. Özgören Yaşar Önder, Selim Çetinkaya, Sarıdemir Suat, Çiçek Adem, **Kara Fuat** (2013). Predictive modeling of performance of a helium charged Stirling engine using an artificial neural network. **Energy Conversion and Management**, 67, 357-368., Doi: 10.1016/j.enconman.2012.12.007.
10. Çay Yusuf, Korkmaz İbrahim, Çiçek Adem, **Kara Fuat** (2013). Prediction of engine performance and exhaust emissions for gasoline and methanol using artificial neural network. **Energy**, 50, 177-186., Doi: 10.1016/j.energy.2012.10.052.
11. Çay Yusuf, Çiçek Adem, **Kara Fuat**, Sağıroğlu Selami (2012). Prediction of engine performance for an alternative fuel using artificial neural network. **Applied Thermal Engineering**, 37, 217-225., Doi: 10.1016/j.applthermaleng.2011.11.019.
12. Ayyıldız Mustafa, Çiçek Adem, **Kara Fuat** (2010). Parametric gear wheel applications in Computer Aided Design. **Journal of the Faculty of Engineering and Architecture of Gazi University**, (25), 643-651.

Articles Published in Other International Refereed Journals:

1. Saruhan Hamit, **Kara Fuat**, Kılıç Abdurrahman (2013). The effect of laboratory practices on learning of shaft critical speed subject in machinery dynamics class. **Asian Journal of Instruction**, 1(1), 1-8.

International Conference Proceedings:

1. **Kara Fuat**, "Determination of optimal Johnson-Cook material model for Inconel 718 super alloy in orthogonal turning process", **1st International Conference on Engineering Technology and Applied Sciences (ICETAS'16)**, 21-22 April 2016, Afyonkarahisar, Turkey.
2. **Kara Fuat**, Aslantaş Kubilay "Optimization of cutting forces in orthogonal turning process and selection of material model", **1st International Conference on Engineering Technology and Applied Sciences (ICETAS'16)**, 21-22 April 2016, Afyonkarahisar, Turkey.
3. Saruhan Hamit, Kam Menderes, **Kara Fuat**, "Dynamic behavior analysis of rotor supported by damped rolling element bearing housing", **1st International Conference on Tribology (TURKEYTRIB'15)**, 07-09 October 2015, İstanbul, Turkey.
4. Yücel Emre, Günay Mustafa, Ayyıldız Mustafa, Erkan Ömer, **Kara Fuat**, "Effect to human health of cutting fluids in machining processes and sustainable use", **6th International Advanced Technologies Symposium (IATS)**, 16-18 May 2011, Elazığ, Turkey.
5. Kılıç Abdurrahman, **Kara Fuat**, Çiçek Adem, "Opinion of students related to addition to teaching of CNC application in computer aided manufacturing lesson", **4th International Computer and Instructional Technologies Symposium (ICITS)**, 24-26 September 2010, Konya, Turkey.
6. Kılıç Abdurrahman, **Kara Fuat**, Çiçek Adem, "The effects of CNC applications on student achieve in computer aided manufacturing lesson", **3th International Computer and Instructional Technologies Symposium (ICITS)**, 7-9 October 2009, Trabzon, Turkey.
7. Çiçek Adem, **Kara Fuat**, Saruhan Hamit, Uygur İlyas, "A database system design for machining of 3D solid models in CNC machine tools", **5th International Advanced Technologies Symposium (IATS)**, 13-15 May 2009, Karabük, Turkey.

Articles Published in National Refereed Journals:

1. Saruhan Hamit, Kam Menderes, **Kara Fuat** (2016). Dynamic behavior analysis of rotor supported by damped rolling element bearing housing. **Journal of Polytechnic**, Accepted.
2. Karabatak Mustafa, **Kara Fuat** (2016). Experimental optimization of surface roughness in hard turning of AISI D2 cold work tool steel. **Journal of Polytechnic**, 19(3), 349-355.
3. Kam Menderes, Saruhan Hamit, **Kara Fuat** (2016). Experimental analysis of heat treated shafts dynamic behavior. **Journal of Advanced Technology Sciences**, 5(1), 81-90.

National Conference Proceedings:

1. Karabatak Mustafa, **Kara Fuat**, "Optimization of surface roughness in hard turning of AISI D2 cold work tool steel", **1st National Engineering Research Symposium**, 10-12 September 2015, Düzce, Turkey.

2. Kam Menderes, Saruhan Hamit, **Kara Fuat**, "Experimental analysis of heat treated shafts dynamic behavior", **1st National Engineering Research Symposium**, 10-12 September 2015, Düzce, Turkey.
 3. Aslantaş Kubilay, Uçun İrfan, **Kara Fuat**, "Analysis of parameters affecting chip morphology in orthogonal cutting process", 4th National Machining Symposium, 07-09 November 2013, İzmir, Turkey.
 4. **Kara Fuat**, Aslantaş Kubilay, Çiçek Adem, "Investigating of effect on the chip morphology of coating material in orthogonal cutting process", **2nd National Design, Manufacturing and Analysis of Conference**, 11-12 November 2010, Balıkesir, Turkey.
 5. **Kara Fuat**, Köklü Uğur, "Ergonomically evaluation of the workshop of industrial school in Kütahya", **YAEM 2006: 26th Operations Research and Industrial Engineering Congress**, 3-5 July 2006, Kocaeli University, Kocaeli, Turkey.
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