

Curriculum Vitae of Dr. Rajkumar Ohdar

(1) Personal Information

Name : **Dr. Rajkumar Ohdar**
Fathers' Name : **Shri Gajadhar Ohdar**
Nationality : **Indian**
E-mail : rkohdar@yahoo.com; rkohdar@gmail.com
Designation : **Professor**
Department : **Forge Technology, NIFFT, Ranchi-3**
Professional Experience : **27 years 07 months as on April 2018**
Present Address : Dr. R. K. Ohdar, Professor,
Dept. of Forge Technology,
National Institute of Foundry and Forge Technology
(NIFFT), Hatia, Ranchi-834 003, Jharkhand, **INDIA**
Telephone: +91 651 2292081 (O); +91 651 2292053 (R)
8986719859 (M)

(2) Educational Qualification:

Course	Board / University	Year of Passing	Subject	Grade / % of Marks
Matric (10 th)	B.S.E.B., Patna	1980	Phy, Chem, Maths, English etc	78.78% 1 st Div.
I. Sc. (12 th)	St. Xaviers' College, Ranchi, R.U., Ranchi	1982	Phy, Chem, Maths, English etc	69.00 % 1 st Div.
B. E.	University of Roorkee, Roorkee, (now IIT, Roorkee), INDIA	1988	Industrial Engineering	70.33% 1 st Div.
M.Tech.	NIFFT, Hatia, Ranchi	1990	Foundry & Forge Technology	8.0 / 10 1 st Div.
Ph. D.	I.I.T., Kharagpur, India	2005	Engineering	

Ph. D Thesis: “Modelling and Analysis of **Supply Chains** of Indian Manufacturing Companies.”

M. Tech. Thesis: **Simulation of Casting Solidification using Finite Element Method (FEM)**

B. Tech. Thesis: Feasibility study to establish a re-rolling mill of an annual capacity of 2400 MT.

(3) Professional Experience: 24 years 11 months as on July 20, 2015

Sl.No	Duration	Designation	Address
(i)	August 24, 2015 – Till Date	Professor	Dept. of Forge Technology, NIFFT, Ranchi-3, INDIA
(ii)	May 10, 2009 – August 23, 2015. (6 years 3 months)	Associate Professor	Dept. of Forge Technology, NIFFT, Ranchi-3, INDIA
(iii)	May 10, 2006 – May 09, 2009 (3 year.)	Assistant Professor	Dept. of Forge Technology, NIFFT, Ranchi-3, INDIA
(iv)	Feb.12, 2005 – May 09, 2006;	Lecturer	Dept. of Forge Technology,

	(1 year 3 months approx.)	(Sr. Scale)	NIFFT, Ranchi-3, INDIA
(v)	August 02, 1996 – Feb.11, 2005; (8 years 6 months)	Lecturer	Dept. of Forge Technology, NIFFT, Ranchi-3, INDIA
(vi)	22. 06. 1995 – 01. 08. 1996, (1 year 2 months approx.)	Adjunct faculty	Dept. of Forge Technology, NIFFT, Ranchi-3, INDIA
(vii)	22.12. 1994 – 21. 06. 1995. (6 months)	Lecturer (Ad hoc)	Dept. of Forge Technology, NIFFT, Ranchi-3, INDIA
(viii)	01.04. 1990 – 30. 06. 1994. (4 years 3 months)	Production Engineer	Santoshi Ma Iron Foundry Pvt. Ltd., Rourkela, Orissa, INDIA

(4) Research and Publications

a) Journal / Conference Publications	Number of Publications
Book Chapters	: 02
International Journal / National Journal (published)	: 45
International Conference / National Conference / workshop	: 53
Total	: 100

b) The details of articles / books / monographs / research reports published

Enclosed in **Annexure - I**

(c) Other Professional Status:

- Reviewed papers of “International Journal of Production Research” published by Taylor and Francis.
- Reviewed** papers of an International Journal “*Material Science and Engineering A*” published by **Elsevier Science**.
- Reviewed** papers of an International Journal “*Journal of Material Processing Technology*” published by **Elsevier Science**.
- Examined an M. Tech. Thesis of Mechanical Engineering Department, B.H.U., Varanashi.
- Examined a Ph.D. Thesis of Mechanical Engineering Department, NIT, Rourkela.

(5) Academic Activities

(a) Teaching involvement in M. Tech, B. Tech, and A.D.C. Courses

Sl No.	Course Title	PG / UG Level	Currently Teaching
1.	Industrial Engineering & MRP	B.Tech. III, ME	#
2.	Industrial Engineering & Management	B.Tech. III, MME	#
3.	Industrial Engineering & Operations Research	M. Tech. ME & FFT	
4.	Industrial Engineering	ADC Foundry & Forge	#
5.	Manufacturing Systems Engineering	M. Tech. , ME	

6.	Forge Technology	B. Tech. IV, MME	
7.	Technology of Ferrous Forging	M. Tech., FFT	#
8.	Forge Technology	M. Tech., FFT	
9.	Forging Die Design & Manufacture	M. Tech., ME & FFT	#
10.	Metal Working Technology	B. Tech., III ME	
11.	Free Forging Design and Technology	M. Tech. FFT	
12.	Modern Forging Technology	ADC, Forge	
13.	Metal Shaping Processes	ADC, Foundry & Forge	
14.	Workshop Practices	B. Tech. I, MME	#
15.	Near-net Shape Process	M. Tech. FFT	#
16.	Recent Trends in Forging Technology	ADC, Forge	#
17.	Quality Control & T Q M	M. Tech., ME	

Currently teaching these subjects

(b) The Details of Short Term Courses Attended:

S No	Title of Training Courses
1	A course in “PRODUCTION MANAGEMENT” held at National Institute of Industrial Engineering, NITIE, Mumbai, March 03, 1997 to March, 07, 1997 (One Week).
2	A course on “Neuro-Fuzzy systems and their industrial applications” held at I.I.T., Kanpur, September 07, 1997 to September 11, 1997 (One Week).
3	Third SERC School on Reliability, Availability and maintainability (RAM) Engineering in Manufacturing sponsored by the DST, New Delhi and offered by I.I.T., Kharagpur during June 08 to June 20, 1998 (Two Weeks).
4	Short-term course in “Rapid Response manufacturing” sponsored jointly by The Institution of Engineers (India), Ranchi Local Centre and The Department of Production Engineering, B.I.T., Meshra, Ranchi on 23 rd & 24 th September 2000. (Two days)
5	AICTE-ISTE Winter School (refresher course) on “Rapid Design and Manufacturing: CAD/CAM/ RP/RT/CE/RE”, in the Deptt. Of Mechanical Engineering, IT BHU, Varanasi, during December 27, 2003 to January 6, 2004 (Two Weeks).
6	Short-term Course on “Advances in Hot Forging Technologies” at Engineering Staff College of India (ESCI), Hyderabad-500032 during December 01 – 03, 2004 (Three Days)
7	Short-term course on “Internetworking” at I.I.T., Kharagpur during April 11 – 16, 2005 (One Week).
8	Integrated course on Multivariate Data Analysis Level I (MVA I) & Design of Experiments (DoE) at NIFFT Hatia, Ranchi during June 27 – 30, 2006 (Four Days).
9	A training programme on “Uni-Graphic software” held at NIFFT, Ranchi during February 11-19, 2008 (Nine Days)
10	Short-term Course on “DEFORM S” held at Scientific Forming Technology Centre (SFTC), Ohio, USA from September 30, 2008 to October 03, 2008.

(C) Paper presented on International Conference

1. **Rajkumar Ohdar**, Md. Israr Equbal and Vinod Kumar, “Die Stress Optimization Using Finite Element and Taguchi Method” , participated and presented at 7th International Conference on Physical and Numerical Simulation of Materials Processing held at Oulu, Finland on June 16-19, 2013 organized by CASR of the University of Oulu, Finland.
2. **R. K. Ohdar**, Israr Equbal and P. Talukdar, “Parametric Optimization of Closed Die Forging Process using FEM and Taguchi Method”, participated and presented at **3rd International Conferences in Thermo-mechanical Simulation and Processing of Steels (SimPro-12)**, during 12-14 December 2012, RDCIS, SAIL, Ranchi, India.
3. **Ohdar, R. K., Singh, N. K. and Kumar, R.**, “Optimization of the Semi-solid Forging Process Parameters of A356 Aluminum Alloy”, participated and presented at **14th International Conferences on Advances in Materials and Processing Technologies**, during 13th – 15th July 2011, Istanbul, Turkey.
4. **R. K. Ohdar**, S. Behera , Israr Equbal and Azhar Equbal, “Process Parameters Optimization for Isothermal Forging of Ti-6Al-4V alloy: A Soft Computing Approach”, participated and presented at **International Conference on Advances in Engineering and Technology (ICAET) 2011**, during May 27-28, 2011 held at E.G.s.Pillay Engineering College, Nagapatinam, Tamilnadu. **(Selected as Best Paper in the Mechanical Group)**
5. **R.K. Ohdar**, R. Shankar and **M.K. Tiwari**, Controlling the properties of Sinterforged Iron Powder Preform: artificial neural network approach", participated and presented at POMS - 99, International Conference on Operation Management in Global Economy, Challenges and Prospects, during December 21-24, 1999, at IIT Delhi.
6. **R. K. Ohdar**, H. N. Tewari, and S. Pasha, “Prediction of sintered density of metal powder perform using artificial neural network”, participated and presented at International Conferences, Silver Jubilee & Annual Technical Meeting on Advances in Powder Materials Processing in Nuclear, Space, Defense & Other sectors, during March 23-25, 1999, Hyderabad, India.

(D) Paper presented on National Conference

1. **R. K. Ohdar**, and V. Toppo Total Productive Maintenance, participated and presented at **National Conference on agile engineering; search for a new path to excellence**, B. I. T. Meshra, Ranchi, India. (1999)
2. **R. K. Ohdar**, “Quality Circles in India perspective for 21st century”, participated and presented at the **38th National Convention on Industrial Engineering, Challenges and opportunities**, December, Mumbai, (1996), India.

(E) Invited Lectures / Presentations for Conference/Symposia

- (i) A technical presentation on “Basics of Supply Chain Management” has been delivered at The Institution of Engineers (India), Jharkhand State Centre, Doranda, Ranchi on July 11, 2010.

- (ii) An invited technical lecture has been delivered on “Forging Process Optimization” at a **Workshop** held at CIT, Tatisilway, Ranchi on November 25, 2013.
- (iii) A technical lecture at the National Workshop on “Recent Trends in Manufacturing” (RTM’ 13) has been delivered on 28th October, 2013 at BIT Mesra, Deoghar Campus.
- (iv) An Invited technical lecture titled “Multi-objective Optimization of Hot Forging Process using Genetic Algorithms and Finite Element Method ” authored by Rajkumar Ohdar and Md Israr Equbal has been presented in the National Seminar on “Emerging Trends in Metal Forming and Heat Treatment” to be held from 23rd – 24th July 2015 at Bangalore.

(F) Seminar / Workshop Attended

- i. International Workshop on Forging, Heat Treatment and Welding at CMTI, Bangalore, during September 24-26, 2004.
- ii. World Workshop on Foundry, Forge and Forming at National Institute of Foundry and Forge Technology (NIFFT), Hatia, Ranchi, Jharkhand during August 17-18, 2005.
- iii. Workshop on “Technical Education in National Scenario” under TEQIP held on December 20 – 21, 2006 at NIFFT, Ranchi organized by National Institute of Foundry and Forge Technology (NIFFT), Hatia, Ranchi.
- iv. National Seminar cum Exhibition on “Need for Vocational Education & Training in Jharkhand” during September 9 – 10, 2008 at NIFFT, Ranchi organized by National Institute of Foundry and Forge Technology (NIFFT), Hatia, Ranchi.
- v. Energy Conservation Conclave-2012 at National Institute of Foundry and Forge Technology (NIFFT), Hatia, Ranchi, Jharkhand during January 14-15, 2012.
- vi. The 2014 Look East Steel Conference held on March 9, 2014 at Radisson Blu, Ranchi organized by IIF, Ranchi Chapter and National Institute of Foundry and Forge Technology (NIFFT), Hatia, Ranchi.
- vii. A Workshop on “Certified Information Security Specialist” on April 11-12, 2014 at NIFFT conducted by CybreCure Solutions in association with National Institute of Foundry and Forge Technology (NIFFT), Hatia, Ranchi.

(G) Any Other Information

Invited for Guest Lecturer at **Indian Institute of Management (IIM) Ranchi** for teaching a module on '**Soft Computing Techniques**' for the students of 'Executive Program on Business Analytics & Business Intelligence (EPBABI)-2nd batch, in the period, December 23-27, 2013 and January 06 – 10, 2014.

(6) The Details Member of various Administrative Committees of the Institute.

- (i) Centre Incharge, & PI Incharge Josaa 2017 for JEE (Main) Counseling for B Tech. Admission
- (ii) Participating Institute (PI) Administrator, for B. Tech. Admission through JoSAA 2015
- (iii) Nodal Officer, RTI Committee, NIFFT Ranchi
- (iv) Centre Incharge, CSAB 2014 for JEE (Main) Counseling for B Tech. Admission
- (v) Chairman, Central Computer Committee [From September 11, 2013]
- (vi) Convener, Annual Report Preparation Committee 2012-13
- (vii) Member, Campus Maintenance Committee [From May 08, 2011 – May 2012]
- (viii) Head of Department, Forge Technology [From May 01, 2012]
- (ix) Course Coordinator & Centre Superintendent, (B. Tech.) [From June 01, 2011]
- (x) Member, Academic Council, NIFFT, Ranchi
- (xi) Member, Anti-ragging committee
- (xii) Member, Post Graduate Research Council for faculty of Engg., Ranchi Univ., Ranchi
- (xiii) Member, PG Coordination Committee
- (xiv) Member, PG Performance Evaluation Committee
- (xv) Chairman, Transport Committee, [Nov. 2004 to Feb. 2008]
- (xvi) Member, Campus-wide Networking Committee, [July 2004 – June 2010]
- (xvii)** In-charge, Information Technology Centre, [July 2004 – June 2010]
- (xviii) Member, E-library committee
- (xix) Actively involved in development of **NIFFT Website**,
- (xx) In-charge, CAD Centre [July 2004 – June 2010]
- (xxi)** In-charge, Rapid Prototyping Laboratory [July 2004 – June 2010]
- (xxii) Chairman, Local Purchase Committee, [Nov. 2004 to Feb. 2008]
- (xxiii) Member, Campus Maintenance Committee [two years approx.]
- (xxiv) Member, Campus Cleaning Committee, [Nov. 2004 to Feb. 2008]
- (xxv) Member, NIFFT Alumani Association,
- (xxvi) Member of M. Tech. Course committee as a Tabulator (for three years approx.),

(xxvii) Member of the Industrial Liaison Cell (for one year)

(7) Other Academic Contributions

(A) Experience in Setting up teaching & Research Laboratories:

(i) Information Technology(IT) Centre:

IT Centre is developed in the year 2004 to fulfill the need of Internet to faculty members, staff and students. This centre has over sixty numbers of PCs. Networking has been done in all laboratories, library, workshop, guest house, director’s bungalow etc. Printing facilities is provided to students. All types of announcements, tenders in our institute website is done from this centre. A complete networking to various hostels and residences for internet connectivity has been planned and will be done from this centre.

(ii) CAD Centre: This Centre is developed for the design and simulation of manufacturing purposes, particularly, foundry and Forge technology related processes. The centre is helpful for carrying out the routine practical and project work of M.Tech., B.Tech., ADC courses. **Twenty numbers of workstations** are installed in this Centre.

The following software are installed in this Centre:

- (a) The solid modeling software – Unigraphics – 5 users; Ideas – 5 users
- (b) Forging Simulation Software: DEFORM – 5 users
- (c) Casting Simulation Software: ProCast – 5 users
- (d) Analysis Software: NASTRAN – 5 users

(iii) Rapid Prototyping Laboratory:

A fused deposition based Machine (FDM) is procured and installed in the Rapid prototyping Laboratory. RP Magic software is also installed in a separate workstation in this laboratory. This laboratory is utilized for the demonstration/ practical classes and project works of M. Tech. and B. Tech. students. One Ph.D. student is also doing his research work in this lab. under my supervision.

(B) Short Term Course / Refresher Courses Organized / Conducted

S. No.	Title of refresher course	Duration	Hours
1.	Recent trends in open die forging technology. (Course No.: 258)	1 week	As Course

			Director
2.	Recent Advancement in die forging technology. (Course No. : 259)	1 week	2 hrs.
3.	Closed Die forging and Trouble shooting. (Course No. : 278)	1 week	2 hrs.
4.	Technology of open die forging and Heat Treatment. (Course No.: 285)	1 week	2 hr.
5	371: Technology of Forging and Heat Treatment	One Week	4 hrs
6.	Design and manufacture of forging dies and tools. (Course no. : 272)	1 week	2 hrs.
7.	Forging Technology: Today and Tomorrow. (Course No.: 288)	1 week	2hrs.
8.	A Special Course on Forging Technology for SCRA Students has been conducted from April 20, 2015 to April 24, 2015 and May 04, 2015 to May 08, 2015	2 weeks	As per schedule
Unit Based Program at Durgapur Steel Plant			
1	Recent Trends in Open Die Forging Technology	18-20 August, 1997	

(C) Number of Projects and Seminar Supervised

Course	No. of Projects	No. of Seminars
M. Tech.	16	16
M. Phil.	04	-
B. Tech.	30	40
ADC	20	35

List of Projects in Master of Technology (M. Tech.) and M.Phil.

S. No.	Title of Projects in M. Tech.
1	Effect of Forging Process Parameters on the Mechanical Properties of Medium Carbon Steel, (2013-15): Md Talha
2	Study of Forging Parameters of Automotive Parts by using Finite Elements Simulation, (2013-15): Mr Rajeev Ranjan
3	Simulation Study of an Alloy Steel Forging using DEFORM Software, (2012-14): Mr Ujjwal Kumar
4	Multi Objective Optimization of Forging of an Automotive Component, (2011-13): Mr. Ajit Kumar
5	Modeling and Analysis of Supply Chain Performance Measurement System (2011-13): Md. Khalid Anwar
6	Study the Process Parameter Optimization of Forging of Automotive Component (2010-12): Amrendra Kumar Amar
7	Simulation Study of Forging of Front Axle Beam (2010-12): Annuj Kumar
8	Study of forging behaviour of Titanium alloy: A soft computing approach, Student: (2010-11); Md Azhar Equbal

9	Optimization and Analysis of Die Design Parameters of Crank Shaft Forging using FEM Simulation. (2009-10; Mr Gulson Kalundia)
10	Optimization and Die Design and Die Stress Analysis of “Connecting Rod” by using FEM Simulation. (2009-10; Md. Israr Eqbal)
11	Feasibility Study of the Manufacturing of Railway Axle Forging. (2008-09- Md Miftahuddin)
12	Computer-Aided prediction of Forging property of Ti-alloy .(2008; Student: Mr. Deepak Kumar)
13	Optimization of process parameters of Rapid prototype component. (2008; Student: Mr. Prashant Shekhar)
14	Flow Stress evaluation in Hot Forging: A Neural Network Approach. (2007; Student: Mr. Rahul Kumar)
15	Design and development of connecting rod forging. (2006; Student: Amol T. Godghate)
16	Studies on some aspects of moulding sand property control using Artificial Intelligence (2005; Student : Nagurbabu Noorbhasha)
17	Application of Neural Network to control the properties of CO ₂ Sand System. (2001; Student: Mr. K.S.Rao)
18	Controlling the properties of CO ₂ sand system using Neural Network. (2001; Student: Mr. B. Srinivas)
19	Computer-Aided process planning of prismatic parts using Neural Network. (2000; Student: Mr.Vijay Toppo)
20	A study of forgeability of Niobium Micro alloyed forging steel in the AS-Forged and Q&T Conditins. (2000; Student: Mr. S.N.Rao)
21	Solidification Simulation of Metals and Alloys using Finite Element Methods. (2000; Student: Mr. R.K.S.Devarapalli)
22	Total Quality Management in ferrochrome production. (1999; Student: Mr. B. Sarangi)
23	Study the process parameters of metal powder perform forging using Neural Network. (1999; Student: Md. S. Pasha)
24	Forging of Thermit Casting. (1997; Student: O.Raja Sekhar Reddy)
M. Phil. Guidance	
25	Supply Chain Performance Measurement Modelling (2006; Mr. K. Niranjana, Enrolment No: A6A6692723; M.Phil.-Management)
26	Self Distributed Management System (2008; Mr. Ashit Kumar Mahapatra; Registration No: A6M1150097; M. Phil.- Computer Science)
27	College Information System (2008; Mr. Prakash Kumar; Registration No: M. Phil.- Computer Science)

(C) List of Ph.D. Scholars under my Guidance

	Ph.D. Guidance	Status
1	Study on Parametric Optimization of Fused Deposition Modelling (FDM) Process (2011; Dr Anoop Kumar Sood; Roll No: 507ME012)	Degree Awarded
2	Studies and Optimization of the Semi-solid Forging Process Parameters of A356 Aluminium Alloy (2014; Dr Randhir Kumar)	Degree Awarded
3	Modeling and Analysis of the Forging Behaviour of the Conventional Ti-6Al Alloy (SANKAR BEHERA; (Registration No. - 000017/2005)	To Submit
4	“Studies on Parametric Optimization of Alloy Steel Forging” (Md Israr Eqbal: 2011-	Degree Awarded
5	“Study on Supply Chain Performance Measurement in Indian Context” (Md Asif Eqbal: 2011-	To Submit
6	“A Study on Various Aspects of Reverse Supply Chain Implementation in Indian Industries” (Mr Ashish Kumar: 2012 -	Cont...
7	“OPTIMIZATION OF PARAMETERS INFLUENCING ENERGY CONSERVATION IN POWER SECTOR USING SOFT COMPUTING TECHNIQUES” (Mr Amar Kumar: 2012 -	Cont...

8. (A) RESEARCH / Consultancy Projects Carried Out/ On Going

S. No.	Nature of consultancy work	Name of firm / corporation
1.	Ring compression test on rolling oil (2007-08)	RDCIS, Ranchi
2.	Hot Workability test and forging of Si-Cr-Ni-Mo steel. (2007-08)	RDCIS, Ranchi
3.	Consultancy for setting up Forging Plants (2008-09)	M/S Macnally Bharat Forge Limited.
4.	Consultancy and Training on Casting and Forging Technology for 4 days at Indore	VE Commercial Vehicles Ltd. (A Volvo Group and Eicher Motors joint venture), 102, Industrial Area 1, Pithampur-454775, India.
5.	To conduct Forging Practical of Students of 3 rd year & 1 st year of Central University of Jharkhand along with the other faculty members.	Central University of Jharkhand

(B) Member of Professional Bodies.

- (i) Associate Member, Institution of Engineers (AMIE)
- (ii) Member, Institute of Indian Foundry (MIIF)
- (iii) Life Member, Indian Institute of Metal (LMIIM)

ANNEXURE I:

A) Published Papers in Refereed Journals	
Sl No	Name of the Paper
1	R. K. Ohdar and P. K. Ray, "Performance Measurement and Evaluation of Suppliers in Supply Chain: An Evolutionary Fuzzy-based Approach", <i>Journal of Manufacturing Technology Management, Vol-15, No - 8, pp 723-734, (2004)</i>
2	Anoop Kumar Sood, R.K. Ohdar, S.S. Mahapatra, "Improving dimensional accuracy of fused deposition modelling processed part using grey Taguchi method", <i>Materials and Design, 30, 4243-4252, (2009)</i>
3	Anoop Kumar Sood, R.K. Ohdar, S.S. Mahapatra, "Parametric appraisal of mechanical property of fused deposition modelling processed parts", <i>Materials and Design, Vol 31, 287-295, (2010)</i>
4	R. K. Ohdar and S. Pasha, "Prediction of the process parameters of metal powder performs forging using artificial neural network (ANN)", <i>Journal of Material Processing Technology, 132, 227-234, (2003)</i>
5	Md. Israr Equbal, P. Talukdar, Vinod Kumar, R.K.Ohdar, "Deformation Behavior of Micro-Alloyed Steel by Using Thermo Mechanical Simulator and Finite Element Method", <i>Procedia Materials Science journal, Vol. 6, pp. 674 - 681 (2014).</i>
6	Md. Israr Equbal, Randhir kumar, Mohammad Shamim, R.K. Ohdar, "A grey-based Taguchi

	method to optimize hot forging process”, <i>Procedia Materials Science journal</i> , Vol. 6, pp. 1495 – 1504 (2014).
7	R.K. Ohdar, P. Talukdar and Md. Israr Equbal, “Study on Ring Compression Test using Experiments and FE Simulation”, <i>Technology letters journal</i> , under Review.
8	Anoop Kumar Sood, R.K. Ohdar, S.S. Mahapatra, “Experimental Investigation on Wear of FDM Processed Parts”, <i>Advanced Materials Research</i> , Vol 445, pp 883-888 (2012)
9	Sood, A. K., Ohdar, R. K., and Mahapatra, S.S, “Experimental Investigation and empirical Modeling of FDM Process for Compressive Strength Improvement”, <i>Journal of Advanced Research</i> , Vol. 3, pp. 81-90, (2012)
10	Sood, A. K., Equbal, Toppo, V., Ohdar, R. K., and Mahapatra, S.S., “An Investigation on Sliding Wear of FDM Built Parts.”, <i>CIRP Journal of Manufacturing Science and technology</i> , Vol. 5, pp. 48-54, (2012)
11	Rajkumar Ohdar, Sankar Behera, Israr Equbal and Azhar Equbal, “Process Parameters Optimization for Isothermal Forging of Ti-6Al-4V alloy using Taguchi Method and Artificial Neural Network”, <i>CiiT International Journal of Automation and Autonomous System</i> , Vol. 3, No. 11, (2011)
12	Sood, A. K., Ohdar, R. K., and Mahapatra, S.S., “Optimization of FDM Process Parameters”, <i>International Journal of Applied Engineering Research</i> , Vol -6, No-5, pp 871-877(2011)
13	Azhar Equbal, Sankar Behera, Rajkumar Ohdar and Sharda Nand Sinha, “Prediction of Flow Stress of Ti-6Al-4V Alloy Forging: An Artificial Neural Network and Neuro-fuzzy Based Approach”, <i>International Journal of Science and Technology</i> , Vol. 1, No. 2, (2011)
14	Sood A. K., Ohdar, R. K., and Mahapatra, S.S., “Weighted Principal Component Approach for Improving Surface Finish of ABS Plastic Parts Built through Fused Deposition Modeling (FDM) Process”, <i>Journal of rapid Manufacturing</i> ”, Vol. 2, No. 1/2, pp. 4-27, (2011)
15	Sood, A. K., Equbal, A., Ohdar, R. K., and Mahapatra, S.S., “Prediction of Dimensional Accuracy of Fused Deposition Modeling: A Fuzzy Logic Approach”, <i>International Journal of Productivity and Quality Management</i> , Vol 7 (1), pp 22-43, (2011)
16	Tapas Gangopadhyay, Rajkumar Ohdar, Dilip Kumar Pratihari, Indrajit Basak, “Three-dimensional finite element analysis of multi-stage hot forming of railway wheels”, <i>International Journal of Advanced Manufacturing Technology</i> , 53, 301-312, (2011)
17	G. D. Satish, N. K. Singh, R. K. Ohdar, “ Preform optimization of pad section of front axle beam using DEFORM”, <i>Journal of Materials Processing Tech.</i> , Vol -203, pp 102-106, (2008)
18	Ashish Kumar , R. K. Ohdar and Manoj Kumar , “A Dynamic Model Approach for Reverse Logistics in India by Third Party Logistics”, <i>International Journal of Scientific and Engineering Research</i> , Vol. 4, Issue 8, 2013, ,
19	Md. Israr Equbal, P. Talukdar, R. K. Ohdar, “Application of optimization techniques in metal forging- A review and reflection”, <i>International Journal of Scientific and Engineering Research</i> , Vol. 4, Issue 8, 2013. ,
20	Md Israr Equbal, Rajkumar Ohdar, Md. Nadeem Bhat and Suhail Ahmad Lone, “Preform Shape Optimization of Connecting Rod using Finite Element Method and Taguchi Method”, <i>International Journal of Modern Engineering Research (IJMER)</i> , Vol. 2, Issue 6, pp. 4532-4539, (2012).
21	Randhir Kumar, N. K. Singh and Rajkumar Ohdar, “ Optimization of the Process Parameters of Semi-solid Forging of A356 Aluminum Alloys”, <i>International Journal of Engineering Science and Technology</i> , Vol. 4, No. 03, (2012).

22	Rajkumar Ohdar, Md. Israr Eqbal and Vinod Kumar, "Die Stress Optimization Using Finite Element and Taguchi Method", <i>Materials Science Forum</i> , Vol. 762, pp. 319-324, 2013.
23	Asif Eqbal, Anoop Kumar Sood, Vijay Toppo, R.K. Ohdar and S.S. Mahapatra, "Prediction and Analysis of Sliding Wear Performance of Fused Deposition Modeling (FDM) Processed ABS Plastic Parts", <i>Proc. IMechE Part J: Journal of Engineering Tribology</i> , 7(1) 22-43, (2011),
24	Anoop Kumar Sood, R.K. Ohdar, S.S. Mahapatra, "Parametric appraisal of fused deposition modelling process using the grey Taguchi method", <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , Volume 224, Number 1, pp 135-145, (2010),
25	A. K. Rout, K. P. Maity, R. K. Ohdar & S. K. Rath, "Comparison of FEM and Computational modeling with Experiments of Extrusion through Bezier Shaped curved Profile", <i>Journal of Modern Manufacturing Technology</i> , Vol.3 No.1, 91-102 (2011),
26	N. Nagur Babu, R. K. Ohdar and P.T. Pushp, "Application of Intelligent Techniques for Controlling the Green Sand Properties", <i>Metalworld</i> , pp 21-26, (2007)
27	N. Nagur Babu, R. K. Ohdar and P.T. Pushp, "Evaluation of green compressive strength of clay bonded moulding sand mix: neural network and neuro-fuzzy based approaches", <i>International Journal of Cast Metal Research</i> , Vol – 19, No-2, (2006),
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