

RESUME

Dr. Md. Asif Equbal

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OBJECTIVE

To Pursue a Challenging Position in a Reputed Organization Offering Good Career Growth and to Utilize my Academic Skills and Intelligence for Achievements at Work.

RESEARCH INTEREST

Supply Chain	Supply Chain Performance Measurement
Multi-Criteria Decision Making	Additive Manufacturing Technology & Its Applications
Soft Computing Techniques	Statistical Process Control

TEACHING INTERESTS

Engineering Mechanics	Thermodynamics
Mechanics of Solids	Refrigeration & Air Conditioning
Manufacturing Technology	Material Science
Industrial Engineering	Additive Manufacturing Technologies

EDUCATION & HONOURS

- ✓ **Ph.D.** in Manufacturing Engineering (Supply Chain Management), August 2018
National Institute of Foundry and Forge Technology (NIFFT), Hatia, Ranchi under Faculty of Engineering, Ranchi University, Ranchi, India.

Dissertation Title: *Study on Supply Chain Performance Measurement in Indian Context.*

- ✓ **M. Tech** in Manufacturing Engineering, 2010
National Institute of Foundry and Forge Technology (NIFFT), Hatia, Ranchi under Ranchi University, Ranchi, Jharkhand, India.

Overall CGPA: 8.08/10 (*Topper of the Branch*)

Thesis Title: *Study of Wear Characteristics of A Fused Deposition Modelling Processed ABS Parts*

- ✓ **B.Sc. Engineering** (IV Year Degree Course) in Mechanical Engineering, 2007
R.P. Sharma Institute of Technology, Patna under Magadh University, Bodh Gaya, Bihar, India.

Overall Percentage: 76% (*First Class Distinction*)

Thesis Title: *Design of an Air-Conditioning Unit for the Computer Laboratory.*

PROFESSIONAL EXPERIENCE

✓ **12 Years and 6 Months**

<i>Organization With address</i>	<i>Post Hold</i>	<i>From</i>	<i>To</i>	<i>Duration</i>
Department of Mechanical Engineering, Cambridge Institute of Technology, Ranchi Jharkhand : 835103	Lecturer (Level 9)	23rd February 2011	16 th March 2011	<i>24 Days</i>
Department of Mechanical Engineering, Cambridge Institute of Technology, Ranchi Jharkhand : 835103	Assistant Professor (Level 9)	17 th March 2011	31 st March 2012	<i>1 Year 15 Days</i>
Department of Mechanical Engineering, Cambridge Institute of Technology, Ranchi Jharkhand : 835103	Assistant Professor (Level 10)	01 st April 2012	31 st October 2018	<i>6 Year 7 Months</i>
Department of Mechanical Engineering, Cambridge Institute of Technology, Ranchi Jharkhand : 835103	Assistant Professor (Level 11)	01 st November 2018	30 th September 2021	<i>2 Year 11 Months</i>
Department of Mechanical Engineering, Cambridge Institute of Technology, Ranchi Jharkhand : 835103	Associate Professor (Level 13 AI)	01 st October 2021	04 th August 2023	<i>1 Year 10 Months</i>
Gaya College of Engineering, Gaya, Bihar : 823003	Associate Professor (Level 13 AI)	25 th September 2023	Till Date	<i>Continue...</i>

PUBLISHED PAPERS IN REFEREED JOURNALS

- ✓ *Pranav Ravindrannair, Azhar Equbal, Md Asif Equbal, Kuldeep K. Saxena and Md. Israr Equbal, "Grey Based Taguchi Method for Multi-response Optimization of FSW of Aluminium AA 6061 Alloy" International Journal of Interactive Design and Manufacturing (IJIDeM), 2023.*
<https://doi.org/10.1007/s12008-023-01557-5> (SCID)
- ✓ *Jai Prakash, Azhar Equbal, Pranav Ravindrannair, Md Asif Equbal and Md. Israr Equbal, "Optimizing The Machining Parameters During Turning Of EN 31 Steel Using Tin + Al2O3 + Ticon Coated Tungsten Carbide Tool" Materials Today: Proceedings, pp. 1-6, 2023.*
<https://doi.org/10.1016/j.matpr.2023.04.473> (SCOPUS)
- ✓ *Azhar Equbal, Md Asif Equbal, Md. IsrarEqubal, Pranav Ravindrannair, Zahia A. Khan, Irfan Anjum Badruddin, Sarfaraz Kamangar, Vineet Tirth, Syed Javed and M.I.Kittur, "Evaluating CNC Milling Performance For Machining AISI 316 Stainless Steel With Carbide Cutting Tool Insert", Materials, vol. 15(22), pp. 1-15, 2022.*
<https://doi.org/10.3390/ma15228051> (SCID)
- ✓ *Azhar Equbal, Mohammad Ali, Md Asif Equbal, S.C.Srivastava, Zahia A. Khan and Md. IsrarEqubal, "Characteristics Of Conventional And Microwave Sintered Iron Ore Preform" Materials, vol. 15(7), pp. 1-16, 2022.*
<https://doi.org/10.3390/ma15072655> (SCID)
- ✓ *Azhar Equbal, Md Asif Equbal, Zahid A. Khan, Irfan Anjum Badruddin, Mohamed Bashir Ali Bashir and Hussein Alrobei, "Investigating The Dimensional Accuracy Of The Cavity Produced By ABS P400 Polymer-Based Novel EDM Electrode" Polymers, vol. 13(23), pp. 1-14, 2021.*
<https://doi.org/10.3390/polym13234109> (SCID)

- ✓ **Md Asif Equbal**, Azhar Equbal, Archana Kumari and Rajkumar Ohdar, “A Comprehensive Model For Supply Chain Performance Measurement: Application In The Coal Beneficiation Plant Of Steel Manufacturing Company” Industrial Engineering and Engineering Management (IEEM), IEEE Xplore, pp. 1401-1406, 2018.
<https://doi.org/10.1109/IEEM.2017.8290123> (IEEE XPLORE/SCOPUS)
- ✓ Azhar Equbal, **Md Asif Equbal**, Anoop Kumar Sood, R Pranav and Md Israr Equbal, “A Review And Reflection On Part Quality Improvement Of Fused Deposition Modelled Parts” IOP Conference Series: Materials Science and Engineering 455 (2018) 012072.
<https://doi.org/10.1088/1757-899X/455/1/012072> (SCOPUS)
- ✓ Md Israr Equbal, Azhar Equbal, **Md Asif Equbal**, and R Pranav “Optimization Of Forging Parameters Of 35c8 Steel Using Grey Relational Analysis” International Journal of Microstructure and Materials Properties, vol. 13(3/4), pp. 198-212, 2018.
<https://doi.org/10.1504/IJMMP.2018.096144> (SCOPUS)
- ✓ **Md. Asif Equbal** and Rajkumar Ohdar, “A Comprehensive Supply Chain Performance Measurement And Evaluation (CSPME) Methodology” International Journal of Mechanical and Production Engineering Research and Development, vol. 7(2), pp. 1-18, 2017.
Paper id : IJMPERDAPR20171 (SCOPUS)
- ✓ Azhar Equbal, Md Israr Equbal, Anoop Kumar Sood and **Md Asif Equbal**, “A Comparative Study On Electroplating Of FDM Parts” International Journal of Technology, vol. 8 (5), pp. 930- 938, 2017.
<https://doi.org/10.14716/ijtech.v8i5.875> (SCI)
- ✓ Azhar equbal, Anoop Kumar Sood, Abdul Razzaq Ansari and **Md. Asif Equbal**, “Optimization Of Process Parameters Of FDM Part For Minimizing Its Dimensional Inaccuracy” International Journal of Mechanical and Production Engineering Research and Development, vol. 7(2), pp. 57-66, 2017.
Paper id : IJMPERDAPR20176 (SCOPUS)
- ✓ **Md. Asif Equbal** and Rajkumar Ohdar, “Supply Chain Performance Measurement: A Review And Reflection” Applied Mechanics And Materials, Trans Tech Publications, Switzerland, vol. 813-814, pp.1208-1216, 2015.
<https://doi.org/10.4028/www.scientific.net/AMM.813-814.1208> (SCOPUS)
- ✓ Anoop Kumar Sood, **Md. Asif Equbal**, Vijay Toppo, R K Ohdar and S S Mahapatra, “An Investigation On Sliding Wear Of FDM Built Parts” CIRP Journal of Manufacturing Science and Technology, vol. 5(1), pp. 48-54, 2012.
<https://doi.org/10.1016/j.cirpj.2011.08.003> (SCI)
- ✓ **Md. Asif Equbal**, Anoop Kumar Sood, R K Ohdar and S S Mahapatra, “Prediction Of Dimensional Accuracy In Fused Deposition Modeling (FDM): A Fuzzy Logic Approach” International Journal of Productivity and Quality Management, vol. 7(1), pp. 22-43, 2011.
<https://doi.org/10.1504/IJPQM.2011.03773> (SCOPUS)

- ✓ **Md. Asif Equbal, Anoop Kumar Sood, R K Ohdar and S S Mahapatra**, “Prediction And Analysis Of Sliding Wear Performance Of Fused Deposition Modeling (FDM) Processed ABS Parts” Proceeding of Institute of Engineers Part J., Journal of Engineering Tribology, vol. 224(12), pp. 1261-1271, 2010.
<https://doi.org/10.1243/13506501JET835> (SCI)
- ✓ **Anish Kumar, Md Asif Equbal, Bateshwar Prasad and Mukesh Kumar Sahu**, “Analysis Of The Crack In Thick Pressure Vessel” International Journal of Technology and Engineering Sciences (IJTES), vol. 3(1), pp. 24-30, 2023.
- ✓ **Azhar Equbal, Shahid Akhtar and Md Asif Equbal**, “A Reflection on the Use of Additive Manufacturing in Nephrology for Education and Surgical Planning” Apollo Medicine, vol. 17(4), pp. 264-266, 2020.
[DOI:10.4103/am.am.101.20](https://doi.org/10.4103/am.am.101.20) (PEER REVIEWED)
- ✓ **Md Israr Equbal, Azhar Equbal, Md Asif Equbal, and Rajkumar Ohdar**, “Effect of temperature and strain rate of the hot deformation of V micro alloyed steel on flow stress” International Journal of Materials Forming and Machining Processes (IJMFMP), vol. 6(1), pp. 40-52, 2019.
<https://doi.org/10.4018/IJMFMP.2019010103> (PEER REVIEWED)
- ✓ **Azhar Equbal, Md. Asif Equbal and Anoop Kumar Sood**, “Electroplating of FDM Parts: A comparison via two different routes” Advanced material proceedings, vol. 2 (7), pp. 414-419, 2017.
<https://doi.org/10.5185/amp.2017/702> (PEER REVIEWED)
- ✓ **Azhar Equbal, Anoop Kumar Sood, Md. Asif Equbal and Md. Israr Equbal**, “An Investigation on material removal rate of EDM process: A Response surface methodology approach” International Journal of Mechanical, Aerospace, Industrial, Mechatronic and Manufacturing Engineering, vol. 11(4), pp. 845-850, 2017.
<https://doi.org/10.5281/zenodo.1130985> (PEER REVIEWED)
- ✓ **Md. Asif Equbal and Rajkumar Ohdar**, “Supplier Selection and Evaluation of Supplier Link in Supply Chain Management” International Journal of Management and Applied Science, vol. 2(11), pp. 6-10, 2016.
<https://iraj.doionline.org/dx/IJMAS-IRAJ-DOIONLINE-6252> (PEER REVIEWED)
- ✓ **Azhar Equbal, Md. Asif Equbal and Anoop Kumar Sood**, “Metallization on FDM processed parts using electroless procedure” Procedia of Material science, Elsevier publication, vol. 6, pp. 1197-1206, 2014.
<https://doi.org/10.1016/j.mspro.2014.07.193> (PEER REVIEWED)

PRESENTATIONS/PAPERS IN THE CONFERENCE PROCEEDINGS

- ✓ **Jai Prakash, Azhar Equbal, Pranav Ravindrannair, Md Asif Equbal and Md. Israr Equbal**, Optimizing the machining parameters during turning of EN 31 steel using TiN + Al₂O₃ + TiCN coated tungsten carbide tool, International Conference on Recent Advancements in Materials, Design and Manufacturing (ICRAMDM -22), **10th December 2022**, Mechanical Engineering Section, University Polytechnic, AMU, Aligarh.

- ✓ *Md Asif Equbal, Azhar Equbal, Archana Kumari, Rajkumar Ohdar*, A comprehensive model for supply chain performance measurement: Application in the coal beneficiation plant of steel manufacturing company, Industrial Engineering and Engineering Management (IEEM), IEEE International Conference, **10th – 13th December 2017**, Singapore, IEEE TEMS Hong Kong Chapter.
- ✓ *Azhar Equbal, Md Asif Equbal, Anoop Kumar Sood, R Pranav and Md Israr Equbal* A Review and Reflection on Part Quality Improvement of Fused Deposition Modelled Parts, IOP Conference Series, Second international conference on Advancements in Aeromechanical Materials for Manufacturing (ICAAMM 2018), **13th- 14th July, 2018**, Hyderabad, Telangana, India.
- ✓ *Md Asif Equbal, Azhar Equbal, Parwez Alam and Md Israr Equbal*, An Investigation on material removal rate of EDM process: A Response surface methodology approach, Second international conference on mechanical and manufacturing engineering, **6th - 7th April, 2017**, Enathur, Kanchipuram, India.
- ✓ *Md Asif Equbal, and Rajkumar Ohdar*, Supplier Selection and Evaluation of Supplier Link in Supply Chain Management. International Conference on Recent Innovations in Science, Engineering, Technology and Management (ASAR-ICRISETM-2016), **17th-18th September, 2016**, Hyderabad, India.
- ✓ *Md. Asif Equbal, Azhar Equbal and Anoop Kumar Sood*, Analysis of material removal rate of electric discharge machining (EDM) using response surface methodology, National seminar on Convergence of science and technology (NSCST), **19th - 20th Feb, 2016**, C.I.T Tatisilwai, Ranchi, India.
- ✓ *Azhar Equbal, Md. Asif Equbal, Md. Shamim and Anoop Kumar Sood*, Electroplating of FDM parts: A comparison via two different routes, International Conference on Materials Science and Technology, **1st-4th March, 2016**, University of Delhi, Delhi, India.
- ✓ *Md. Asif Equbal and Rajkumar Ohdar*, Supply Chain Performance Measurement: A Review and Reflection. International Conference on Mechanical and Manufacturing Engineering (ICMME 2015). **2nd-3rd April, 2015**, Kanchipuram, Tamil Nadu, India.
- ✓ *Azhar Equbal, Md. Asif Equbal and Anoop Kumar Sood*, Metallization on FDM processed parts using electroless procedure, International conference on material processing and characterization, **9th - 10th March, 2014**, GRIET, Hyderabad, India.

CHAPTER IN BOOK

- ✓ *Azhar Equbal, Md Asif Equbal*, Wearing Behaviour of Electrodes during EDM of AISI 1035 Steel, pp. 101-112, Chapter 5 in *Advanced Manufacturing Methods Smart Processes and Modeling for Optimization (2022)*, CRC Press, Taylor & Francis Group Boca Raton, London, New York.
ISBN: 978-0-367-37089-3 (hbk) *ISBN: 978-1-032-32636-8(pbk)*
ISBN: 978-0-367-82238-5 (ebk) <https://doi.org/10.1201/9780367822385>
- ✓ *Azhar Equbal, Shahid Akhtar, Md Asif Equbal and Anoop Kumar Sood*, Application of Machine Learning in Fused Deposition Modeling: A Review, pp. 445-463, Chapter 22 in *Materials Forming, Machining and Tribology, Fused Deposition Modeling Based 3D*

Printing(2021), Springer, Nature, Switzerland.

ISSN 2195-0911

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ISBN 978-3-030-68023-7

ISBN 978-3-030-68024-4 (eBook)

<https://doi.org/10.1007/978-3-030-68024-4>

- ✓ *Azhar Equbal, Md Asif Equbal, Md Israr Equbal and Anoop Kumar Sood*, Multi-Criteria Decision Method for Roughness Optimization of Fused Deposition Modelled Parts, pp. 235-262, Chapter 12 in Additive Manufacturing Technologies From an Optimization Perspective (2019), IGI Global, International Publisher of Information Science and Technology Research.

ISBN13: 9781522591672

EISBN13: 9781522591696)

- ✓ *Azhar Equbal, Md Asif Equbal and Md Israr Equbal*, An Insight On Current And Imminent Research Issues In EDM, pp. 33-54, Chapter 2 in Non-Conventional Machining in Modern Manufacturing Systems (2019), IGI Global, International Publisher of Information Science and Technology Research.

ISBN13: 9781522561613

EISBN13: 9781522561620

- ✓ *Azhar Equbal, Md Asif Equbal and Md Israr Equbal*, Optimization Techniques In Electric Discharge Machining Process, pp. 269-280, Chapter 14 in Industrial Engineering and management practices (2017), (International Edition), Editor: Dr. Ashok G. Matani, International Research Publication House, Delhi, India.

ISBN 978-93-84443-56-6

RESEARCH GUIDANCE AT POST GRADUATION LEVEL (M.TECH)

Name of Student	Topic	Submission Year
Santosh Kumar Paul (11MT017)	Critical Study Of Various Loads On Different Welding Joints	2016
Anish Kumar (20050760001)	Analysis of The Crack In Thick Pressure Vessel	2022
Ram Kishore Prasad (20050760004)	Study of the failure Analysis and Wear Characteristics of Wire Rope	2022
Iliyaz Rahmat (20050760005)	Design Analysis of Scissor Lift	2023
Md Minhaj Ansari (20050760007)	Temperature Analysis of A TIG Welded AISI 304L Stainless Steel	2023
Ayush Raj (20150760102)	Development Of AA7075/Micro Sic Composite Through Permanent Mould Stir Casting Technique And Testing of Its Mechanical Properties	2023
Santosh Kumar Sah (21050760103)	Development Of AA7075/Nano Sic Composite Through Permanent Mould Stir Casting Technique And Testing of Its Mechanical Properties	2023

FACULTY DEVELOPMENT PROGRAMME/WORKSHOP

- ✓ Participated in the faculty development programme on “Recent Advancements in Design and Manufacturing (RADM-2022)” conducted by Mechanical Engineering Section, University Polytechnic, Faculty of Engineering and Technology, *Aligarh Muslim University, Aligarh*, India, during March 22- 26, 2022.

- ✓ *NPTEL Online Certification Course of Inspection and Quality Control in Manufacturing* (4 Weeks during Jan-Apr 2020).
- ✓ National Workshop on “*Advances in Renewable Energy*” held at **Cambridge Institute of Technology, Tatisilwai, Ranchi**, India, 21-25, March 2016.
- ✓ Short Term Course on “*Application of Advance CAD-CAM in CNC Machining*” held at **Indian Institute of Technology (IIT), Kharagpur**, India, 16-20, March 2017.
- ✓ Short Term course on “*Study on 2D and 3D Modeling in the Field of Mechatronics, Robotics and Engineering Applications*” held at **National Institute of Technology (NIT), Rourkela**, India, 25-27 November 2016.
- ✓ National Workshop on “*Recent Trend in Manufacturing and Welding Technologies*” held at **Cambridge Institute of Technology, Tatisilwai, Ranchi**, India, 19-21 October 2016.
- ✓ Participated in the faculty development programme on “*Achieving Academic Excellence*” at **Indian Institute of Management (IIM), Raipur**, India, held during March 23-28, 2015.
- ✓ National Seminar on “*Time Management*” at **Cambridge Institute of Technology, Tatisilwai, Ranchi**, India on February 20, 2014.
- ✓ National seminar on “*Solid Waste Management*” at **Cambridge Institute of Technology, Tatisilwai, Ranchi**, India, held during September 20-21, 2013.
- ✓ National Seminar cum Exhibition on “*Need for Vocational Education and Training in Jharkhand*” at **NIFFT, Hatia, Ranchi**, India held on September 9-10, 2008.

AWARDS AND HONORS

- ✓ Dr. Bahadur Singh Memorial Research & Innovation Award (**DBSMRIA-2022**) at Cambridge institute of Technology, Tatisilwai, Ranchi.
- ✓ Dr. Bahadur Singh Memorial Research & Innovation Award (**DBSMRIA-2021**) at Cambridge institute of Technology, Tatisilwai, Ranchi.
- ✓ Topper of the batch in Master of Technology in Manufacturing Engineering.
- ✓ Best Teacher’s Award for the year 2011.
- ✓ Worked as Associate HOD, Mechanical Engineering Department, C.I.T, Tatisilwai, Ranchi.
- ✓ Worked as HOD, Mechanical Engineering Department, C.I.T, Tatisilwai, Ranchi.
- ✓ Coordinator of National workshop on Recent Trend in Manufacturing and Welding Technologies held at C.I.T. Tatisilwai, Ranchi, India, 19-21 October 2016.
- ✓ Coordinator of National Workshop on “Advances in Renewable Energy” held at C.I.T. Tatisilwai, Ranchi, India, 21-25, March 2016.

SOFTWARE SKILLS

Operating Systems: Windows XP, Windows 7, 10, Vista.

Scientific Applications: Expert Choice, SPSS, MINITAB.

Technical Drawing: AutoCAD.

Office Applications: Microsoft PowerPoint, Excel, Word.

INDUSTRIAL TRAINING

- ✓ Heavy Engineering Corporation Ltd.
Duration: - 3 Week industrial training at HMBP in the 3rd year of Engineering
- ✓ Tata Steel Washry.
Duration: - 6 Week Practical Training at TATA Steel
 - Got the training of Productivity and Quality Improvement Programme in TATA STEEL Coal Washery
 - Learn the technique of R.O.I delivery to TATA Steel in the chemical related Business
- ✓ Heavy Engineering Corporation Ltd.
Duration: - 1month industrial training at FFP in 3rd semester of M.Tech.

LANGUAGES

English, Hindi, Urdu and Arabic.

PERSONAL SNIPPET

Permanent Address : Hill View Nursing Home Road,
Bariatu Basti, District- Ranchi,
Jharkhand, India, PIN- 834009

Date of Birth : 22 December 1981.

Language's known : English, Hindi and Urdu

Marital Status : Married

Location Preference : Anywhere

REFERENCE

1. Dr. Rajkumar Ohdar
Professor,
Department of Forge Technology,
National Institute of Foundry and Forge
Technology, Hatia,
Ranchi, Jharkhand – 834003,
India
Mobile No.: – 08986719859, 08210574096
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2. Dr. Mukesh Kumar Sahu
Associate Professor & HoD,
Department of Mechanical Engineering,
Cambridge Institute of Technology,
Tatisilwai, Ranchi,
Jharkhand – 835103,
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Mobile No.: – 08877189522, 09907413197
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DECLARATION

I hereby declare that the above information given by me is true to the best of my knowledge.



Dr. Md. Asif Equbal

Place: Ranchi, Jharkhand

Date: 07th November, 2023.