

Dr. Gaurav Bartarya

Assistant Professor

School of Mechanical Sciences

IIT Bhubaneswar

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**DATE OF BIRTH: 08-02-1979,****PLACE OF BIRTH: Lucknow, U.P.****ACADEMIC QUALIFICATIONS**

- B.TECH. (PROD. ENGG.) 2000 G.B.PANT UNIV.,
PANTNAGAR
- M.TECH. (MANUFACTURING SCIENCE, 2002 IIT KANPUR
- Ph..D. (MANUFACTURING SCIENCE, Feb.2014 IIT KANPUR
(Ph.D. thesis title “*Experimental and analytical investigations of Finish Hard Turning through Force Modeling and FEM Analysis of Residual Stresses for improvement of the Process Performance*”

TEACHING EXPERIENCE

- Assistant Professor at School of Mech. Sc., IIT Bhubaneswar from July 28, 2017 till date
- Asst. Professor at Mech. Engg. Dept., H.B.T.I.Kanpur (Now HBTU) From 15.02.2007 to 27.07.2017
- Lecturer (re-designated to Asst. Prof. in year 2006) at Mech. Engg. Dept., Thapar Instt. of Engg. & Tech.,(Now Thapar Univ.) Patiala from 10.04.2002 to 14.02.2007.

COURSES TAUGHT**At IIT Bhubaneswar:**

- CAD/CAM ,
- Introduction of Manufacturing Processes Lab
- Casting Welding and Forming Lab

At previous places of work:**UG:**

- Computer Aided Manufacturing
- Manufacturing Science and Engineering
- Management of Production Systems
- Machining Science
- Unconventional Manufacturing Processes
- Manufacturing Processes
- Factory Automation
- Value Engineering
- Elements of Mechanical Engineering
- Mechanical System Design
- Elements of Machine Design

PG:

- Computer Integrated Manufacturing Sys
- Robotics
- Manufacturing Automation
- Production and Operations Management
- Rapid Prototyping and Tooling
- Machine Tool Design
- Numerical Methods and Computer Prog

LIST OF PUBLICATIONS

A) INTERNATIONAL JOURNAL- 09

- 1- Gaurav Bartarya, S.K.Choudhury, 'Effect of Tool Wear on White Layer Thickness and Subsurface Hardness on Hard Turned EN31 Steel', Int. J. of Machining and Machinability of Materials. Vol. 18, Nos. 5/6, 2016. pp 483-500
- 2- Gaurav Bartarya, S.K.Choudhury, "Influence of Machining Parameters on Forces and Surface Roughness during Finish Hard Turning of EN 31 steel", Proc. of IMechE Part B, Journal of Engineering Manufacture, Sage Publishers.U.K., Sep 2014, Vol. 228, pp 1068-1080, DOI: 10.1177/0954405413500492
- 3- Gaurav Bartarya, S.K.Choudhury, "State of the Art in Hard Turning", Int. J. of Machine tools and Manufacture, Vol. 53, Issue 1, 2012 pp. 01-14. DOI:10.1016/j.ijmachtools.2011.08.019
- 4- Gaurav Bartarya, S.K.Choudhury, "A methodology to estimate the forces on the tool insert in finish hard turning", Int. J. of Machining and Machinability of Materials, Vol. 11, No. 3, 2012, pp. 280-296. <http://dx.doi.org/10.1504/IJMMM.2012.046887>
- 5- Gaurav Bartarya, S.K.Choudhury, "Effect of cutting parameters on cutting force and surface roughness during finish hard turning AISI52100 grade steel", Procedia CIRP, Vol. 1, 2012, pp. 674-679, <http://dx.doi.org/10.1016/j.procir.2012.04.116>
- 6- Gaurav Bartarya, S.K.Choudhury, "A regression model for force and surface roughness estimation during hard turning", Advanced Materials Research, Vols.299-300, 2011, pp 1167-1170. doi:10.4028/www.scientific.net/AMR.299-300.1167
- 7- S.K.Choudhury, G.Bartarya, "Role of temperature and Surface finish in predicting tool wear using Neural Network and Design of Experiment", Int. J. of Machine tool and Manufacture, Vol.43, Issue7, 2003, pp. 747-753. DOI:10.1016/S0890-6955(02)00166-9
- 8- Gaurav Bartarya, Himanshu Varma, Pallavi Asthana, Rashmi Kumari, "Role of flank wear in analyzing thermal aspect of orthogonal cutting", International Journal of Applied Engineering Research, Vol. 6 No. 4, 2011, pp. 511-522. ISSN 0973-9769
- 9- Gaurav Bartarya, Aman Sinha, "Prediction of Surface Finish and Flank Wear using Neural Network", MIT International Journal of Mechanical Engineering, Vol.1, No. 1, 2011, pp 61-66. ISSN 2230-7699

BOOK CHAPTERS (03)

- 1- Gaurav Bartarya, S.K.Choudhury, "Surface Integrity Issues in Finish Hard Turning", In: Saleem Hashmi (editor-in-chief), Reference Module in Material Science and Materials Engineering. Oxford: Elsevier; 2016. pp.1-11. Doi: 10.1016/B978-0-12-803581-8.04047-9
- 2- Gaurav Bartarya, S.K.Choudhury, "Tool Wear Progression and Its Effects on Finish Hard Turned Products", In: Saleem Hashmi (editor-in-chief), Reference Module for Material science and Materials Engineering., Oxford: Elsevier; 2016. pp.1-10. Doi: 10.1016/B978-0-12-803581-8.04049-2
- 3- Book chapters on conventional machining, and non conventional machining for the course of "Advanced Manufacturing Technology" for the distance learning programme launched by TIET, Patiala.

B) INTERNATIONAL CONFERENCES: (20)

- 1- **Gaurav Bratarya**, S.K.Choudhury, "Modeling of Cutting Forces considering Chip-Tool Interaction and Flank Wear in Finish Hard Turning" 2nd CIRP Intl. conf. on Process Machine Interactions, June 10-11, 2010, Univ. of British Columbia, Vancouver, **CANADA**.
- 2- **Gaurav Bartarya**, S.K.Choudhury, "Modeling the forces in finish hard turning considering tool flank wear", Proc. of 3rd Intl. and 24th National AIMTDR Conf., Dec.13-15, 2010, Andhra University College of Engineering (A), Visakhapatnam, pp81-86
- 3- **Gaurav Bartarya**, Himanshu Varma, Pallavi Asthana, Rashmi Kumari, "Role of flank wear in analyzing thermal aspect of orthogonal cutting", Proc. of Int. Conf. on Emerging Trends in Mech. Engg, Feb.24-26, 2011, Thapar Univ., Patiala, India (paper # MF205)
- 4- **Gaurav Bartarya**, Kunal Saurabh, "Finite Element Modeling of Stress Distribution in Honed Edge Tool during Hard Turning", Proc. of the 5th Intl. Conf. on Advances in Mechanical Engineering (ICAME-2011), June 06-08, 2011, S.V.N.I.T., Surat, India, pp 621-625.

- 5- **Gaurav Bartarya**, S.K.Choudhury, “A regression model for force and surface roughness estimation during hard turning”, Int. Conf. on Materials and Manufacturing, Liaoning Univ. of Technology Liaoning Jinzhou, China, Sep. 7-9, 2011(#D080).
- 6- **Gaurav Bartarya**, S.K.Choudhury, “Effect of cutting parameters on cutting force and surface roughness during finish hard turning AISI52100 grade steel”, Paper no. 157, 5th CIRP Conf. on High Performance Cutting, 4-7 June, 2012,ETH Zurich. **Switzerland**.
- 7- Kunal Saurabh, **Gaurav Bartarya**, “Finite element modeling of stress distribution in PCBN tool during hard turning”, Proc. of Intl. Conf. on Material Processing and Characterization, March 8-10, 2012, Hyderabad, India.
- 8- **Gaurav Bartarya**, S.K.Choudhury, “Influence of machining parameters on forces and surface roughness during finish hard turning AISI 52100 grade steel”, Proc. of 4rd Intl. and 25th National AIMTDR conf., Dec.14-16, 2012, Jadavpur Univ., Kolkata pp.293-298
- 9- **G.Bartarya**, K.C.Sadhukhan, S.B.Yadaw, “Comparative Analysis of Surfaces Produced during Machining of Various Fiber Reinforce Plastic Composites”, Proc. of 4rd Intl. and 25th National AIMTDR conf., Dec.14-16, 2012, Jadavpur Univ., Kolkata pp.193-198
- 10- **G.Bartarya**, V.K.Tiwari, J.Ramkumar, “Effect of AWJM Process Parameters on Form accuracy and Taper during Machining Kevlar Epoxy Composite”, Proc. of 4rd Intl. and 25th National AIMTDR conf., Dec.14-16, 2012, Jadavpur Univ., Kolkata pp.525-530
- 11- **G. Bartarya**, Monika Srivastava, “Surface Modelling and Tool Path Generation for CAD/CAM Applications”, 3rd International Conference on Production and Industrial Engineering CPIE-2013, March, 30-31, 2013, NIT Jalandhar, pp 189-191
- 12- **G. Bartarya**, S.K.Choudhury, “Finite Element Analysis of Residual Stresses in Hard turning of AISI 52100 Steel using Worn-out CBN Tools”, Proceedings of 2nd Int. Conf. IRAM 2013, Dec. 16-18, 2013, IIT Indore, pp. 471-477.
- 13- **G. Bartarya**, S.K.Choudhury, “Effect of Tool Wear on White Layer Thickness and Subsurface Hardness on Hard Turned EN31 Steel”, Proc. of 5th Intl. and 26th National AIMTDR conf., Dec.12-14, 2014, IIT Guwahati, pp.854-1 to 854-6
- 14- **G. Bartarya**, G. Kumar, J. Ramkumar, “An Experimental Study of Forces and Strain in Single Point Sheet Incremental Forming of Aluminum”, Proc. of 9th Intl. Conf. on Conference on Precision, Meso, Micro and Nano Engineering, Dec. 10-12, 2015, IIT Bombay. (Submission no.126)
- 15- **Rajneesh Sagar**, G.Bartarya, A.K. Singh, “On the Performance of Dyneema HB 80 Fiber Reinforced Polymer Composite: Effect of Curing Temperature”, Proc. of Int. Conf. on Advanced and Agile Manufacturing Systems, Dec 28-29, 2015 KNIT, Sultanpur, pp 244-248
- 16- **Vishal Saxena**, Gaurav Bartarya, “Tool Path Generation for a Free form Surface Generated using Bezier Surface Patches for Reverse Engineering”, International Conference on Innovations and Developments in Mechanical Engineering (IDME’17), KNIT Sultanpur, March 25-27, 2017,pp 105-109.
- 17- **Gaurav Bartarya**, S.K.Choudhury, “A Finite Residual Element Stress Analysis of Vibration Assisted Hard Turning of AISI, 52100 Steel”, Proc. of Intl. Conf. on Design Materials and Manufacturing concerns in production of quality Engineering goods, March 27-29,2017, HBTU Kanpur, pp 37-43.
- 18- **Arpit Srivastava** and Gaurav Bartarya, “A Review on Issues in Machining of Nickel Based Alloys”, Proc.of Intl. Conf. on Design Materials and Manufacturing concerns in production of quality Engineering goods, March 27-29,2017, HBTU Kanpur, pp 368-374.
- 19- **Jitendra Kumar Verma** and Gaurav Bartarya, “A Review of Machining of Steels in Minimum Quantity Lubrication Conditions”, Proc. of Intl. Conf. on Design Materials and Manufacturing concerns in production of quality Engineering goods, March 27-29,2017, HBTU Kanpur, pp 404-410.
- 20- **Namit Singh Bhadauria**, Gaurav Bartarya, “Finish Hard Turning of EN31 Steel Using Minimum Quantity Lubrication: Surface Integrity Analysis”, Int. Conf. on Technological and Managerial strategies for next generation transformation, Mangalmay Group of Institutions, Greater Noida, ISBN: 978-93-86432-66-7

C) National Conferences: (18)

1. Ajai Singh Rana, Gaurav Bartarya, "Operation sequencing for rotational components using genetic algorithm", Proc. of National Conf. on recent development in mechanical Engineering Oct 31-Nov.1, 2003., TIET, Patiala, pp-417-423
2. Sunil Luthra, Gaurav Bartarya, B.L.Sethi "Optimal selection of machining parameters for multi-pass turning", Proc. of National Conf. on recent development in mechanical Engineering Oct 31-Nov.1, 2003, TIET, Patiala, pp-459-465
3. Livharleen Kaur Sandhu, Gaurav Bartarya, Aman Sinha, "Optimized gripper sequencing for robotic assembly using Genetic Algorithm", Proc. of A conf. on Computer Aided Design and Manufacturing: A Global Perspective. April 8-9, 2005, TIET, Patiala Paper reference no. CCADM 126 (Conference CD)
4. Ajit Pal Singh, Gaurav Bartarya, "A work-centre initiated dispatching algorithm for AGVs using the bidding concept" Proc. of A conf. on Computer Aided Design and Manufacturing: A Global Perspective. April 8-9, 2005, TIET, Patiala, Paper reference no. CCADM 138 (Conference CD)
5. Gurpreet Singh, Gaurav Bartarya, "Operation sequencing and machine parameter selection for rotational components using genetic algorithm and expert system", Proc. of 2nd National Conf. on Recent Developments in Mechanical Engineering, Nov. 10-11, 2006, TIET Patiala, pp 218-227
6. Shalu Thakur, Gaurav Bartarya, , Sandeep Sharma "Solving job shop scheduling problem using constraint logic programming", Proc. of 2nd National Conf. on Recent Developments in Mechanical Engineering, Nov. 10-11, 2006, TIET Patiala, pp 228-237.
- 7- Gaurav Bartarya, Aman Sinha, "Prediction of Surface Finish and Flank Wear using Neural Network", Proc. of the National Conf. on Advances in Mechanical Engineering"(NCAME 2009), Moradabad Institute of Technology, Moradabad, Feb. 28 and March1, 2009, pp 446-455.
- 8- Gaurav Bartarya, V.K.Jadon, Gagnesh Sharma, "A Finite Element Thermal Analysis of Carbide Insert for Flank Wear Monitoring during Turning", Proc. of the National Conf. on Emerging Trends in Mechanical Engineering"(ETME 2009), MMMEC, Gorakhpur, Oct. 12-13, 2009, pp 85-93
- 9- Gaurav Bartarya, Kunal Saurabh, "Finite element analysis of hard turning by using ANSYS/Implicit", Proc. of National conf. on Emerging trends in Mechanical Engineering (ETME 2011) IIMT, Greater Noida., April 7-8, 2011, pp 38-41.
- 10- V.K.Tiwari, Gaurav Bartarya, J Ramkumar, "Effect of Cutting Parameters on feature accuracy during Machining Kevlar Epoxy Composite using AWJM" Proc. of IE National seminar on Advances in materials and material selection in design, IE Kanpur Chapter, Aug. 24-25, 2012, pp. 69-80
- 11- Arpit Srivastava, Gaurav Bartarya, "Thermal Analysis of Machining of Nickel Based Superalloy", Proceedings of the National conference on Emerging trends in Mechanical Engineering, HBTI Kanpur, Feb 15-16, 2014 pp.79-86
- 12- Susheel Kumar, Gaurav Bartarya, "A Review on Machining of Al/SiCp-Metal Matrix Composites", Proceedings of the National conference on Emerging trends in Mechanical Engineering, HBTI Kanpur, Feb 15-16, 2014 pp.71-78
- 13- Govind Kaishoreaya, Gaurav Bartarya, "An Analytical Modelling of Forces During Drilling of Kevlar Epoxy Composite ", Proceedings of the National conference on Emerging trends in Mechanical Engineering, HBTI Kanpur, Feb 15-16, 2014 pp. 87-94
- 14- Vishal Saxena, Gaurav Bartarya, "Free Form Surface Modeling for Reverse Engineering", Proceedings of the National conference on Emerging trends in Mechanical Engineering, HBTI Kanpur, Feb 15-16, 2014, pp. 165-170
- 15- Vishal Saxena, Gaurav Bartarya, "Modeling of Free Form Surfaces using Bezier Surface Patch for Reverse Engineering", Proceedings of National Conference on Innovations in Materials, Design and Manufacturing, MED, HBTI Kanpur, March 27-28, 2015, pp. 280-285
- 16- Arpit Srivastava, Gaurav Bartarya, "Thermal Aspects in Machining of Superalloy", Proceedings of National Conference on Innovations in Materials, Design and Manufacturing, MED, HBTI Kanpur, March 27-28, 2015 pp. 326-334
- 17- Gaurav Kumar, Gaurav Bartarya, "Single Point Incremental Forming: A Review", Proceedings of National Conference on Innovations in Materials, Design and Manufacturing, MED, HBTI Kanpur, March 27-28, 2015 pp.235-343
- 18- Namit Singh Bhadauria, Gaurav Bartarya, Machining of Hardened Steel using Minimum Quantity

Lubrication to improve Tool life", National conference on Advances in Materials, Design and Manufacturing, Allenhouse Institute of Technology Kanpur, January 30-31, 2016, pp 137-144.

Editorial work (Conf. Proceedings.)

1. Editor: Proc. of Intl. Conf. on Design Materials and Manufacturing Concerns in Production of Quality Engineering Goods, March 27-29, 2017, HBTU Kanpur,
2. Asst. Editor, Proceedings of National Conference on Innovations in Materials, Design and Manufacturing, MED, HBTI Kanpur, March 27-28, 2015
3. Editor: Proc. of the National conference on Emerging trends in Mechanical Engineering, HBTI Kanpur, Feb 15-16, 2014,
4. Chief Editor, Proc. of 2nd National Conf. on Recent Developments in Mechanical Engineering, Nov. 10-11, 2006, TIET Patiala,
5. Editor, Proc. of A conf. on Computer Aided Design and Manufacturing: A Global Perspective. April 8-9, 2005, TIET, Patiala (Conference CD)
6. Editor, Proc. of National Conf. on Recent Development in Mechanical Engineering, Oct 31- Nov.1, 2003., TIET, Patiala,

INVITED LECTURES

- 1- Invited lecture on "Performance control of finish hard turning of steels", April 11, 2017, Indus Institute of Technology and Management, Bilhaur, Kanpur.
- 2- Invite lecture on "Finish Hard Turning Issues: Investigation and Control" in a workshop on Advanced Manufacturing Processes and Quality Management" on 25 Feb 2016. Integral University, Lucknow.
- 3- Invited lecture on "Experimental and Analytical Investigations in Hard Turning", FDP on Manufacturing Science and Technology, Azad Institute of Technology, Jan 15, 2016
- 4- Invited lecture on "Finish Hard turning: Process and Research Issues", FDP on Manufacturing Science and Technology, Azad Institute of Technology, Jan 15, 2016
- 5- Invited lecture on "Six Sigma Concepts at a glance", in a 'Refresher course for Junior Works Managers(JWMs)' at Ordinance Factories Institute of Learning, Kanpur, May 21.2015
- 6- Invited lecture on "Six Sigma Concepts", in a course on 'TPM & TQM' at Ordinance factories Institute of Learning, Kanpur, May 6.2015
- 7- Invited lecture on "Introduction to Work Study: Time, Motion & Methods Study", in a course on 'Time and Motion Study' at Ordinance factories Institute of Learning, Kanpur, April 15, 2015
- 8- Invited lecture on "Time study techniques", in a course on 'Time and Motion Study' at Ordinance factories Institute of Learning, Kanpur, April 15, 2015
- 9- Invited Talk on "Surface integrity solutions for hard turning" at the 2nd Conference on "Advances in Electrical & Information Communication Technology (AEICT-2015)", April 11-12, 2015 PSIT Kanpur on April 12, 2015
- 10- Invited lecture on "Six Sigma- measure Phase", in a course on Six Sigma at Ordinance factories Institute of Learning, Kanpur, Jan. 29. 2015
- 11- Invited lecture on "Introduction to Six Sigma", in a course on Six Sigma at Ordinance factories Institute of Learning, Kanpur, Jan. 28. 2015
- 12- Invited Talk on "Review of issues in hard turning" at National Student Conference on Advances in Electrical & Information Communication Technology (AEICT 2014), April 12-13, 2014. PSIT Kanpur on April 13, 2014
- 13- Invited Lecture on "Role of private sector in Engineering Education" in TEQIP sponsored FED on Engineering Education Opportunities, Challenges and Future Directions, March 9, 2014. HBTI Kanpur
- 14- Lecture on "Basic Metrology" for the candidates of J.K.Foundation at IIT Kanpur, Jan. 12, 2014
- 15- Keynote lecture on "Manufacturing Automation: An introduction" in CEP on "Manufacturing Automation" organized by DMSRDE, Kanpur on Nov.14, 2011
- 16- Keynote lecture on "Machining of Hard Materials", in TEQIP sponsored FDP on Advances in Engineering Materials held at HBTI Kanpur on March 18, 2009
- 17-Keynote lecture on "Role of Advanced Machining Processes in today's manufacturing world" in

- Seminar on Non-Traditional Machining under SAP of UGC held at TIET, Patiala on March 17, 2006
- 18-Lectures on “Machining” for students from University of Waterloo, Canada under TIET-UW training Program (Feb 13, 2006- April 10, 2006)
- 19-Lectures on “Machining” for the Employees of Godrej-Boyce under Godrej-TIET training Program in Oct-Nov. 2005

Session Chair

- 1- Chaired a technical session on “Micro manufacturing” in 9th Intl. Conf. on Conference on Precision, Meso, Micro and Nano Engineering (*COPEN⁹*), Dec. 12, 2015, **IIT Bombay**.

JOURNAL and BOOK REVIEWER

International Journals

1. Wear, Elsevier Science.(01 assignment)
2. International Journal of Precision Engineering and Manufacturing, Springer Publications (07assignments)
3. International Journal of Internet Manufacturing and Services (IJIMS), Inderscience Pub. UK (02 assignments)
4. IJMachE,part B: Journal of Engineering Manufacture, Sage publishers (05 assignments)
5. JMachE,part C: Journal of Mechanical Engineering Science, Sage Publishers (01assignment)
6. IJMachE,part E: Journal of Process Mechanical Engineering., Sage Publisher (01 Assignment)
7. International Journal of Machining and Machinability of Materials. Inderscience Pub., U.K.(01 assignment)
8. Neural Computing and Applications, Springer, U.K. (01 assignment)

Book :

1. 4 book chapters of “Machining and Tool Engineering” by N.K.Mehta, Publisher Tata McGraw Hill

CONFERENCES/SEMINAR/EVENTS ORGANIZED

Event	Title	Place	Dates	Capacity
International Conference	Design, Materials and Manufacturing Concerns in Production of Quality Engineering goods	HBTU Kanpur	March 27-29, 2017	Organizing Secretary
Training Prog.	Computer Aided Engineering for Vehicle Development	HBTU Kanpur	Jan 17-18, 2017	Dy. Coordinator
Training Prog.	Reverse Engineering and 3D printing Technologies	HBTU Kanpur	Jan 5-7, 2017	Dy. Coordinator
State Level Seminar	State level faculty Interaction Seminar	HBTU Kanpur	June 8-9, 2015	Member, Prog. Committee
National Conference	Innovations in materials design and manufacturing	HBTU Kanpur	March 27-28, 2015	Dy. Coordinator
National Conference	Emerging Frontiers in Mechanical Engineering	HBTU Kanpur	Feb. 15-16, 2014	Organizing Secretary
FDP	Curriculum development and evaluation methods	HBTU Kanpur	July 1-6, 2013	Coordinator
FDP	Advances in Engineering Materials	HBTU Kanpur	March 16-21, 2009	Dy. Coordinator
National Conference	II nd National Conference on Recent Developments in Mechanical Engineering (NCME-2006)	TIET, Patiala	Nov. 10-11, 2006	Coordinator
National Conference	A conference on Computer Aided Design and Manufacturing: A Global Perspective (CCADM 2005)	TIET, Patiala	April 8-9, 2005,	Organizing Secretary
National	National Conference on Recent	TIET,	Oct. 31 and	Joint Secretary

Conference	Developments in Mechanical Engineering (NCME-2003)	Patiala	Nov. 1, 2003	
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STUDENT EVENT ORGANIZED:

At previous work place

Organised Various Inter-college and Intra-college Technical and Cultural festivals like Odyssey and Mecharnival in past 10 years at HBTU Kanpur

ACADEMIC AND ADMINISTRATIVE RESPONSIBILITIES

At previous work place

Shouldered various responsibilities like Associate Dean Academic Affairs, Member, Training and placement Cell, Warden Final year hostel and Asst. Superintendent Examinations, Faculty Convener, Cultural sub council, faculty Convener AME etc. in past 10 years

PROJECTS handled at HBTU Kanpur

Sponsoring Agency	Title of project	Amount of grant/Status	Period	Co-investigators
World bank TEQIP I	Development of cart mounted sugar cane crusher with high performance and hygiene	0.60 lac (Completed)	2007-08	Sh. J. Bhaskar Assoc. Prof., MED, HBTU Kanpur
World bank TEQIP II	Development and experimental study of electro-chemical discharge machining (ECDM) setup	2.5 Lac (Ongoing)	2015-16	Dr. S.K.S.Yadav Asst. Prof. MED HBTU Kanpur
World bank TEQIP II	Development of Minimum Quantity Lubrication setup for improved surface integrity during hard turning	1 lac(appox.) Completed	2015-16	--

M.Tech Supervised: Completed: 28, Submitted: 01

B.Tech. projects Supervised: 20

Scholarships and awards:

1. Institute merit Scholarship from 1997-2000 during B.Tech.
2. Teaching fellowship under 'Early Faculty Induction Program' of AICTE New Delhi

(Gaurav Bartarya)