

## **RESUME**



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### **Resume Summary:**

- 1) Highest Education: PhD in Mechanical from PEC University, Chandigarh, (Govt. University), in 2014
- 2) ME from PEC University, Chandigarh (Govt. University), in 2005
- 3) GATE Qualified in 2003
- 4) Present Job: Presently working in VJTI college, Matunga, Mumbai as Faculty in Production Engineering department from 7<sup>th</sup> Feb'2025
- 5) Total Exp:23 years (Teaching, 18 years and Industry, 5 years)
- 6) Paper published: Int. Journal: 31(among which 2 SCI journals and 8 Scopus journals), Int. Conference: 14, National Conference: 10
- 7) Organized one Int. Conference as Convener in 1-2 June'2018

### **Detailed Resume:**

### **WORKING EXPERIENCE**

#### **ACADEMIC:**

Presently working in VJTI college, Matunga, Mumbai as a Faculty in Production Engineering department from 7<sup>th</sup> Feb'2025

#### **INDUSTRY:**

1. Worked with Gun And Shell Factory, Cossipore, Kolkata (Indian Ordnance Factory, Defence Factory, Government of India) as Trainee Apprentice from 2<sup>nd</sup> June'1997 to 1<sup>st</sup> June'1998 in Tool Room, Heat Treatment, Inspection and QC, Planning, Production, Surface coating, Metal Finishing, Drawing and Design, Purchase and Inventory Control department.

2. Worked with M/s Machine -O-Techno, Sodepur (WB) from April 2002 to August 2003 as a Supervisor in quality control and fabrication department. The company was the manufacture of various Machines and Boiler.
3. Worked with M/s Roy Techno, Burdwan (WB) from Aug 1998 to April 2002 as a Shop Manager in Fabrication Department. The company was a big Manufacturer of body of TATA And Ashok Leyland bus and Trucks.

#### **PROFESSIONAL QUALIFICATION**

- 1) **Ph.D**, from PEC University of Technology (Formally, Punjab Engineering College, PEC Chandigarh) Govt. of U.T of Chandigarh, (2014) in Mechanical Engineering, specialization in Laser Machining.
- 2) **Master in engineering (M.E)**, (Specialization: Industrial Materials and metallurgy), 2003–2005, from Punjab Engineering College, Chandigarh (PEC), Govt. of U.T of Chandigarh (Punjab University), with 1<sup>st</sup> Division.
- 3) **Qualified GATE in 2003 in Mechanical Engineering** conducted by IIT-Madras with 85.14 percentile (All India Rank 3831).

#### **SHORT TERM COURSES / WORK SHOPS / QIP ATTENDED**

- 1) Completed short term course (“Research Scheme in Mechanical Engineering”), organized by Dinabandhu Choturam University, Murthal, Sonapat Govt. of Haryana, from 20-24 Jan’09.
- 2) Completed short term course (“Faculty Development Programme’09”), organized by Lingaya’s University, Haryana, from 8th-10th July’09.
- 3) Wipro Mission 10X faculty development programmed from 27<sup>th</sup> Sept’2011 to 1<sup>st</sup> Oct’2011
- 4) Completed QIP short term course (“Manufacturing techniques and Quality excellence”), organized by IIT Roorkee, from 09-13 July’2012.
- 5) Completed QIP short term course (“Hydraulic Jets and Plumes”), organized by Department of Civil Engineering, IIT Bombay, from 14-18 Jan’2013.
- 6) Completed short term course (“Faculty Development Programme’13”), organized by Dronacharya Group of Institutions, Greater Noida from July’2013 to August’2013.
- 7) Participated in the workshop’ Statistical product and service solutions organized by HCL at Dronacharya Group of institutions Greater Noida

- 8) Participated one day 'NEN successful leadership workshop' organized by National Entrepreneurship Networkwork (NEN) on 25<sup>th</sup> January'2014 at Jagannath Institute of Management (JIM), Nehruplace, New Delhi.
- 9) Completed two weeks workshop on Fluid Mechanics, conducted by IIT Kharagpur, from 20-30 May'2014.
- 10) Participated two days e-Seminar on 'Step 2 Research' organized by department of Computer Science, AmalJyothi College of Engineering, Kanjirappally in association with ISTE Kerala section and CSI cochin chapter during 19<sup>th</sup>-20<sup>th</sup> September'2014 at Dronacharya Group of Institutions, Greater Noida.
- 11) Participated five days webinar on 'Climate change and Disaster Management' organized by department of Mechanical Engineering, National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh during 17<sup>th</sup>-21<sup>st</sup> November'2014 at Dronacharya Group of Institutions, Greater Noida.
- 12) Participated 2-weeks Faculty Development Program (FDP) on 'Failure Effect Analysis (FEA)' organized by department of Mechanical Engineering, Dronacharya Group of Institutions, Greater Noida, during 2<sup>nd</sup>-15<sup>th</sup> May'2015
- 13) Participated 2-weeks ISTE Workshop on 'Environmental Studies' organized by Indian Institute of Technology, Bombay (IIT-Bombay) and funded by NMEICT during 2<sup>nd</sup>-12<sup>th</sup> June'2015 at Dronacharya Group of Institutions, Greater Noida.
- 14) Attended 39th Annual Meeting and seminar On 23 Oct'2017, at Institution of Engineers (India) Durgapur Local centre
- 15) Participated in a short term course on " Micro Fabrication and Hybrid Machining" under TEQIP-III (MHRD) during 12-16 March'2018 at Punjab Engineering College, Chandigarh (PEC Chandigarh), Government of U.T. Chandigarh.
- 16) Completed one week QIP short term course ("Finite Element Methods"), organized by Department of Civil Engineering, IIT Bombay, from 20-24 May'2019.
- 17) Completed one week QIP short term course ("Basics of Formability, Damage and their Numerical Simulation"), organized by Department of Mechanical Engineering, IIT Bombay, from 2-6 December'2019.
- 18) Completed one week ATAL STTP- FDP short term course ("Digital Twin Based predictive maintenance for Industry 4.0 using Machine Learning Techniques"), organized by VJTI, Mumbai, from 4-9 December'2023.
- 19) Completed one week FDP on Entrepreneurship in ICT college, Govt. of Maharashtra, Matunga, Mumbai from 24 Mar'2025 – 28 Mar'2025

### **SPECIAL ACTIVITY**

- 1) Invited by Bangladesh Parliament, Dhaka in 2009 and discussed about the development of Economy, Education, Mechanical Engineering, Agriculture etc. of two countries invited by Ministry of Education, Bangladesh.
- 2) Participated as Session Chair in International conference on 'Innovative Trends in Mechanical, Material, Manufacturing, Automotive, Automobile and Aeronautical Engineering" (ITMMMAAAE-2014), 15-16 Feb'2014 (KrishiSanaskriti, Jaharlal Nehru University, New Delhi)
- 3) Participated one day NEN workshop on Entrepreneurship held on 25<sup>th</sup> Jan'2014 at Jagannath Institute of Management Studies (JIMS), Nehru Place, New Delhi.
- 4) Qualified iTEP examination for English proficiency test, held on 15<sup>th</sup> Dec'2014.

### **MEMBERSHIP OF PROFESSIONAL BODY**

- 1) Associate Member of The Institution of Engineers, India (IEI), Membership No: AM095144-5
- 2) Life Member of Indian Society for Technical Education (ISTE), Membership No: LM78792
- 3) Nominated as Chartered Engineer by The Institution of Engineers, India (IEI), Membership No: AM095144-5
- 4) Member of International Association of Engineers (IAENG), Membership No: 105181

### **PAPER PUBLICATION IN JOURNALS AND CONFERENCES**

#### **INTERNATIONAL JOURNALS:**

1. Ghosal A, et. al. 'Fiber Laser Machining Of 10 Volume % Aluminium-Alumina Composite Material', International Journal of Engineering Science and Management, Vol. 1, Issue 1, February'2011, pp 50, ISSN 2231-3273
2. Ghosal A, et. al. 'An analysis of laser machining process of aluminium-10weight % alumina composite material', International Journal of Engineering Science and Management, Vol. 2, Issue 1, Jan-June'2012, pp 28, ISSN 2231-327
3. Ghosal A, et. al. 'Optimization of ytterbium fiber laser parameters based on response surface methodology, during machining of 5mm thick en353 steel', International Journal of Engineering Science and Management, Vol. 2, Issue 2, July-Dec'2012, pp 75-80, ISSN 2231-3273

4. Ghosal A, et. al. 'Response Surface Method based Optimization of Ytterbium Fiber Laser Parameter during machining of Al/10wt% Al<sub>2</sub>O<sub>3</sub>-MMC', 'International Journal of Optics and Laser Technology', Elsevire publication, Vol 46, 2013, pp 67-76. (SCI Journal), impact factor 2.75
5. Ghosal A, et. al. 'An experimental investigation for optimization of Ytterbium Fiber Laser parameter during machining of Al/5 wt%Al<sub>2</sub>O<sub>3</sub>-MMC', IGI Global Publication, International Journal of Surface Engineering and Interdisciplinary Materials Science', (published from Portugal) Vol 1 (2), pp 32-34, June-Dec'2013. (SCI journal)
6. Ghosal A, et. al. 'Ytterbium Fiber Laser parameter optimization during drilling of Al/15 wt%Al<sub>2</sub>O<sub>3</sub>-MMC', International Journal of Engineering Science and Management, Vol. 3, Issue 1, Jan-June'2013, PP 24-29, ISSN 2231-3273
7. Ghosal A, et. al. 'Modeling of Ytterbium Fiber Laser Parameters during Micro Machining of Al-15 wt% Al<sub>2</sub>O<sub>3</sub> MMC,' Elsevire Publication, Procedia Engineering, Volume 90, Dec'2014, Pages 704–709
8. Ghosal A, et. al. 'Heat Model Analysis during Machining of Al-Al<sub>2</sub>O<sub>3</sub>-MMC by Ytterbium Fiber Laser A Review', International Journal of Engineering Science and Management, Vol. 4, Issue 1, Jan-June'2014, PP 61-67, ISSN 2231-3273
9. Ghosal A, et. al.' 'A 3- Wheels Electric Car for Physically Disabled People', International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-3, Issue-11, April 2014, pp-96-97
10. Ghosal A, et. al. 'Modified Conventional Air Cooling System to Enhance Air Cooling' International Journal of Engineering and Technical Research (IJETR) ISSN: 2321-0869, Volume-2, Issue-4, April 2014, pp182-183
11. Ghosal A, et. al. 'A Review on Power Generation in Thermal Power Plant for Maximum Efficiency' International Journal of Advanced Mechanical Engineering, ISSN 2250-3234, Special issue, Volume 4, Number 1 (2014), pp. 1-8
12. Ghosal A, et. al. 'Electricity Generation from Waste Water of High Raise Building', International Journal of Advanced Engineering and Nano Technology (IJAENT) ISSN: 2347-6389, Volume-1, Issue-5, April 2014, pp 29-32
13. Ghosal A, et. al. 'Ajaatshatru"- A New Technology in Indian Army', International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-3, Issue-11, April 2014, pp77-78
14. Ghosal A, et. al. 'A Review of Solar Air Conditioning System', International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-4, Issue-7, December 2014, pp60-61
15. Ghosal A, et. al. 'Ocean Thermal Energy Conversion Power Plant', International Journal of Research in Engineering & Advanced Technology, Volume 2, Issue 6, Dec-Jan, 2015 (IJREAT) ISSN: 2320-8791, Impact factor 1.479, pp16-22

16. Ghosal A, et. al. 'Efficient Hybrid vehicle', International Journal of Innovative Research in Technology (IJIRT) ISSN: 2349-6002, Volume-1, Issue-9, Feb'2015, pp37-40
17. Ghosal A, et. al. 'Advance Aerospace Materials', International Journal of Innovative Research in Technology (IJIRT) ISSN: 2349-6002, Volume-1, Issue-9, Feb'2015, pp41-42
18. Ghosal A, et. al. 'Advanced Marine propulsion for effective Marine drive', International Journal of Innovative Research in Technology (IJIRT) ISSN: 2349-6002, Volume-1, Issue-9, Feb'2015, pp43-47
19. Ghosal A, et. al. 'Hydro electric power generation – A Review', International Journal of Innovative Research in Technology (IJIRT) ISSN: 2349-6002, Volume-1, Issue-9, Feb'2015, pp53-54
20. Ghosal A, et. al. 'Importance of specific speed in Turbine for effective power generation', International Journal of Innovative Research in Technology (IJIRT) ISSN: 2349-6002, Volume-1, Issue-9, Feb'2015, pp55-56
21. Ghosal A, et. al. 'Cutting tools for efficient cutting', International Journal of Innovative Research in Technology (IJIRT) ISSN: 2349-6002, Volume-1, Issue-9, Feb'2015, pp51-52
22. Ghosal A, et al. 'Optimization parameter during Laser machining of 2mm thick Al/Al<sub>2</sub>O<sub>3</sub> MMC', International Journal of engineering Research in Mechanical and Civil Engineering, Vol. 2, Issue-7, July 2017, pp 93, ISSN 2456 – 1290
23. Ghosal A et.al, 'Machining parameters optimization during machining of Al/5 wt% alumina metal matrix composite by fiber laser', American Institute of Physics, Vol.1851, Issue-1 020082 (2017); 20 June'2017, doi: <http://dx.doi.org/10.1063/1.4984711>
24. Ghosal A et al, 'Optimization parameter during Laser machining of 2mm thick Al/Al<sub>2</sub>O<sub>3</sub> MMC', Research and Application of Functional Material Journal, Material science forum, Vol 900, ISSN1662-9760, pp.121-126, published from Switzerland, 2017, trans Tech Publications.
25. Ghosal A, et. al. 'YTTERBIUM FIBER LASER PARAMETERS OPTIMIZATION BASED ON R.S.M, DURING MACHINING OF 5MM THICK EN353 STEEL' "International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)", Page 1291-1298, special issue-7, Vol.-8, Oct.2018, Scopus Indexed, Trans Stellar Publications, ISSN(P):2249-6890, ISSN(E):2249-8001, <http://www.tjprc.org/conference-archives.php>

26. Ghosal A, et. al. Optimization of Machining Parameters, Machining of an Aluminium/15wt% Alumina Metal Matrix Composite by Fiber Laser“International Journal of Mechanical and Production Engineering Research and Development (IJMPERD), Page 1329-1333, special issue-7, Vol.-8, Oct.2018, Scopus Indexed, Trans Steller Publications, ISSN(P):2249-6890,ISSN(E):2249-8001, <http://www.tjprc.org/conference-archives.php>
27. Ghosal A, et. al. “Casting of Al/Al<sub>2</sub>O<sub>3</sub> Metal Matrix Composites on Fabricated Stir Casting Setup for Machining by Ytterbium Fiber Laser”,“International Journal of Mechanical and Production Engineering Research and Development (IJMPERD), Page 1355-1363, special issue-7, Vol.-8, Oct.2018, Scopus Indexed, Trans Steller Publications, ISSN(P):2249-6890,ISSN(E):2249-8001, <http://www.tjprc.org/conference-archives.php>
28. Faraz Ahmed, Pushpinder Kumar, Anamika Bhandari,,PravinPatil, Arindam Ghosal,”Finite element analysis based material optimization of a quadcopter body frame,“International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)”, Page 1342-1347,special issue-7, Vol.-8,Oct.2018, Scopus Indexed, Trans Steller Publications, ISSN(P):2249-6890,ISSN(E):2249-8001,<http://www.tjprc.org/conference-archives.php>
29. M Azizur Rahman, M Mustafizur Rahman,Arindam Ghosal, PravinPatil,“Modelling of specific cutting energy for the variation of material removal mechanisms in ultra-precision machining regimes”, “International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)”, Page 1309-1328,special issue-7, Vol.-8, Oct.2018, Scopus Indexed, Trans Steller Publications, ISSN(P):2249-6890,ISSN(E):2249-8001, <http://www.tjprc.org/conference-archives.php>
30. Ghosal A, et. al. “Design Concept of Power Stokings”, ‘Journal of Graphic Era University”,ISSN: 0975-1416(print), 2456-4281(Online), Volume: 6, Issue: 2, 2018, Page: 263-269,www.geujournals.com
31. Ajay Kumar, Ghosal Arindam, Kumar Sudhir,Shashi Prakash Dwibedi, “Grain Size and Viscosity behavior of developed agglomerated fluxes during submerged arc welding”, “Materials Today proceeding”, sciencedirect.com,Elsevire publication, Online 7July’2020.<https://www.sciencedirect.com/science/article/pii/S221478532034443>
32. Maurya S.K., Ghosal A., Manna A. Experimental investigations during fabrication and electrical discharge machining of hybrid Al/(SiC+ZrO<sub>2</sub>+NiTi) MMC, “International Journal of Machining and Machinability of Materials”, 2022, 24(3-4), pp. 215–230, <https://www.scopus.com/authid/detail.uri?authorId=55232271200>

#### INTERNATIONAL CONFERENCES / SEMINARS:



- 1) Ghosal A, et. al. 'comparison the properties of forged steel at different cooling rates', **International** conference on Recent Advances in Material Processing Technology'09, National Engineering College, Kovilpatti, Tamil Nadu, 25<sup>th</sup> - 27<sup>th</sup> February'2009.
- 2) Ghosal A, et. al. 'Nd:YAG Laser cutting of ceramic material', **International** conference on Engineering Education for Sustainable Development'09, World University of Bangladesh, Dhaka, Bangladesh, 19<sup>th</sup> -20<sup>th</sup> December'2009.
- 3) Ghosal A, et. al. 'Bio Diesel: The Substitute of Petroleum Diesel', **International** conference on Advances in Mechanical Engineering'2010, SardarVallabhbhai National Institute of Technology, Surat, Gujrat, 4<sup>th</sup> -6<sup>th</sup> January'2010.
- 4) Ghosal A, et. al. Mehra A 'ELECTRO HANDY- A Vehicle for Physically Disabled People', **International** conference on Automation and Mechanical Systems', Lingaya's University, Faridabad, 21-22 March'2013.
- 5) Ghosal A, et. al. 'A review on power generation in thermal power plant for maximum efficiency', **International conference** on "Innovative Trends in Mechanical, Material, Manufacturing, Automotive, Automobile and Aeronautical Engineering" (ITMMMAAAE-2014), 15-16 Feb'2014 (KrishiSanaskriti, Jaharlal Nehru University, New Delhi)
- 6) Ghosal A, et. al. 'Modeling of Ytterbium Fiber Laser Parameters during Micro Machining of Al-15 wt% Al<sub>2</sub>O<sub>3</sub> MMC,' 10<sup>th</sup> **International conference** on Mechanical Engineering-ICME'2013', 20-21 June'2014 (Bangladesh University of Engineering and Technology, BUET, Dhaka, Bangladesh).
- 7) Ghosal A, et. al. "Optimization Process during Laser Machining of 2 mm thick Al/Al<sub>2</sub>O<sub>3</sub> Metal Matrix Composite", 'International Conference on Mechanical Engineering and Electrical Systems (ICMES-2016)', Indexed by Scopus, Hong Kong, 4<sup>th</sup> -6<sup>th</sup> December'2016, Scopus Indexed.
- 8) Ghosal A, et. al. "Machining Parameters optimization during Machining of Al/ 5 wt% Alumina Metal Matrix Composite by Fiber Laser'International Conference on Thermal Engineering-2016', Indexed by Scopus, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh, 22<sup>nd</sup> -24<sup>th</sup> December'2016, Scopus Indexed.
- 9) Ghosal A, et. al. "Design Concept of a power stockings", 'International Conference on Recent innovation in Electrical Electronics and Communication Sytstems, Graphic Era University, Dehradun-248002 28<sup>th</sup> - 29<sup>th</sup> October'2017
- 10) Ghosal A, et. al. YTTERBIUM FIBER LASER PARAMETERS OPTIMIZATION BASED ON R.S.M, DURING MACHINING OF 5MM THICK EN353 STEEL



, 'International Conference on Mechanical Industrial System Engineering, (ICMISE'2018), Organized by Department of Mechanical Engineering, Graphic Era deemed to be University, Dehradun-248002, 1st -2nd June'2018.

- 11) Ghosal A, et. al. Optimization of Machining Parameters, Machining of an Aluminium/15wt% Alumina Metal Matrix Composite by Fiber Laser 'International Conference on Mechanical Industrial System Engineering (ICMISE'2018), Organized by Department of Mechanical Engineering, Graphic Era deemed to be University, Dehradun-248002, 1st - 2nd June'2018.
- 12) Yogeshkumar Sharma, Sachinkumar Mangla, Pravin Patil, Arindam Ghosal, "Analyzing risks in safety and security of food using Grey relational Analysis, 'International Conference on Mechanical Industrial System Engineering (ICMISE'2018), Organized by Department of Mechanical Engineering, Graphic Era deemed to be University, Dehradun-248002, 1st - 2nd June'2018,
- 13) M Azizur Rahman, M Mustafizur Rahman, Arindam Ghosal, Pravin Patil, "Modelling of specific cutting energy for the variation of material removal mechanisms in ultra-precision machining regimes, 'International Conference on Mechanical Industrial System Engineering (ICMISE'2018), Organized by Department of Mechanical Engineering, Graphic Era deemed to be University, Dehradun-248002, 1st -2nd June'2018.
- 14) Ghosal A, Laser drilling of Al/Al<sub>2</sub>O<sub>3</sub> MMC, International Conference on Emerging trends in Engineering, Management and Science (ICETEMS'2019), Organized by Department of Mechanical Engineering, Graphic Era Hill University, Bhimtal, Nainital, Uttarakhand, 27-28 April'2019

#### **NATIONAL CONFERENCES / SEMINARS:**

- 1) Ghosal A, et. al. 'A study on Failure of a Tractor Bull Pinion Gear', National conference in Advanced Materials and Manufacturing Technology'07, Punjab Engineering College, Chandigarh, 21<sup>st</sup> -22<sup>nd</sup> September'2007.
- 2) Ghosal A, et. al. 'Failure Analysis of a Tractor Bull Pinion Gear', National Conference on Farm Mechanism'08, CMERI, Durgapur, W.B, 26<sup>th</sup> – 27<sup>th</sup> February'2008.
- 3) Ghosal A, et. al. 'Advance Production Technology', National Conference on Automation Trends in Manufacturing Industries: Cutting Edge Technologies and their Impact, The Institution of Engineers (India), Delhi State Centre, New Delhi. 23<sup>rd</sup> – 24<sup>th</sup> May'2008.

- 4) Ghosal A, et. al. 'Biodiesel: The Future Fuel Source', National seminar on Efficient Conversion of new and renewable energy for electricity'08), JNCT, Bhopal, 22<sup>nd</sup>-23<sup>rd</sup> December'2008.
- 5) Ghosal A, et. al. 'Nano science and Nano technology-A modern gateway of research', National conference on Application Specific Trends of Electronic Devices Circuits and Systems'09, Lingaya's Institute of Management and Technology', Faridabad, 6<sup>th</sup> -7<sup>th</sup> February'2009.
- 6) Ghosal A, et. al. 'Parameter Optimization during Ytterbium Fibre Laser Machining of 5mm thick EN353 Steel', NationalSeminar on Material characterization by Ultrasonics,'2012,Amity School of Engineering And Technology, Bijwasan, New Delhi,3<sup>rd</sup> and 4<sup>th</sup> April'2012, pp 85.
- 7) Ghosal A, et. al. "Ytterbium Fiber Laser parameters Optimization during machining of Al/15wt% Alumina-MMC", National conference on "Trend and application of Laser Technology and Optoelectronics", 4<sup>th</sup> April 2013 at (Amity University, Gurgaon).
- 8) Ghosal A, et. al. 'Temperature distribution during machining of Al/15 wt% Al<sub>2</sub>O<sub>3</sub> -MMC by Ytterbium fiber laser', National conference on Advancements and Futuristic Trends in Mechanical Engineering-AFTME'2014, 17-18 October'2014 (PEC University of Technology, formally Punjab Engineering College, Chandigarh)
- 9) Ghosal A, et. al. 'Optimization of Machining parameters during Laser drilling of 5mm thick EN353 steel plate', All India Seminar on Advancements and Trends in Engineering and Technology Management ATETM'2015, 29<sup>th</sup> -30<sup>th</sup> August'2015, The Institution of Engineers (India), Durgapur Local Centre, Durgapur, West Bengal.
- 10) Ghosal A, et. al. 'Laser cutting of composite materials', National conference on recent advances in engineering and technology(NCRAET-17), 16<sup>th</sup> July'2017, National Conference, Pune.

**INTERNATIONAL CONFERENCE ORGANIZED AS A CONVENOR:** Scopus Indexed 1<sup>st</sup> International Conference on Mechanical and Industrial System Engineering (ICMISE-2018), 1<sup>st</sup> – 2<sup>nd</sup> June'2018 at G.E.U, 566/6 Bell Road, Society Area, Clement Town, Dehradun-248002

#### **GUEST LECTURE DELIVERED**

- 1) Invited and delivered a guest Lecture in IET Bhaddal, Punjab on 19 Feb'2018 on "Un conventional Machining Processes"

- 2) Invited and Delivered an Expert Lecture on “Laser Machining of Aluminium-Alumina Metal Matrix Composite” at Punjab Engineering College, Chandigarh (PEC Chandigarh), Government of U.T. Chandigarh on 15<sup>th</sup> March’2018 for a short term course on “ Micro Fabrication and Hybrid Machining” under TEQIP-III (MHRD) during 12-16 March’2018on“Laser Machining”
- 3) Invited and delivered a guest Lecture in Institution of Engineers, India(IEI), Durgapur, West Bengal Centre Punjab as a Keynote speaker in 1 day seminar (14 Oct’2018) on “World Standard Day”
- 4) Invited and delivered a guest Lecture on 9 Apr’2019 in CEC, Landran (Chandigarh University), Mohali, Punjab as a Expert speaker in 2 days seminar (9-10 Apr’2019) on “Laser Machining of Al/Al<sub>2</sub>O<sub>3</sub> composite Material”
- 5) Invited and delivered a guest Lecture on 10 May’2019 in Durgapur Institute of Advanced Technology and Management, Durgapur, in collaboration with Institution of Engineers, Durgapur Local Centre,W. B., as a Expert speaker in 2 days seminar “Efficiency Enhancement through green technology in Manufacturing” (10-11May’2019) on “Unconventional Machining”

#### **COMPUTER LITERACY**

- ❖ Certificate on **Auto CAD** from Regional Computer Centre, Jadavpur University, Kolkata, West Bengal, India.
- ❖ Certificate on MS word from Micro soft.
- ❖ Certificate on MS Office, FoxPro, HTML, DHTML, Internet from State Youth Computer Training Centre, Government of West Bengal, Burdwan, India
- ❖ Certificate on C, C++, Latex, Linux, from Spoken Tutorial project IIT Bombay, funded by National Mission on Education through ICT, MHRD, Govt. of India.