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**BIO-DATA**

**Name & Designation:** Dr. Amandeep Singh, Assistant Professor (Sr. Scale)

**Institution**: Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, Punjab-India.

**Academic Qualifications:**

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| **Class/**  **Degree** | **Institution** | **University/Board** | **Year of Passing** | **Marks Percentage** |
| PhD  Mechanical Engineering | IKG Punjab Technical University Jalandhar, India | IKG Panjab Technical University, Jalandhar, India | 2018 | NA |
| M.Tech  Mechanical Engineering | Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib. | IKG Panjab Technical University, Jalandhar, India | 2011 | 68% |
| B.Tech. Mechanical Engineering | Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib. | Panjab Technical University, Jalandhar, India | 2004 | 71.2% |
| Diploma Mechanical Engineering | P.J.R.Govt. Polytechnic Hoshiarpur. | P S B T Ed. & I T Chd. | 2001 | 66.4% |
| Matric | Govt. High School Jhawar, Gurdaspur | P S E B Mohali | 1996 | 84% |

**Work Experience:**

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| **Positions Held** | **Name of Institute** | **Period** | **Scale of Pay** |
| Assistant Professor | BBSB Engineering College, Fatehgarh Sahib (Punjab) India | 10.02-2005-  Till Date | (15600-7000-39100) |

**Administrative Experience:**

Performed duty as HOSTEL WARDEN **at** B. B. S. B. ENGG. COLLEGE FATEHGARH SAHIB for more than 3 Years.

**Sponsored Project**

Completed research project entitled “Design and Development of Magnesium Metal Matrix Composites by Stir Casting Technique” under Research Promotion Scheme (RPS) by AICTE New Delhi, (2013), worth **Rs. 21,90,000/-**.

**International Journal Articles**

1. **Singh A.,** and Bala N. (2019), “Synthesis and comparative sliding wear behavior of stir cast Mg and Mg/Al2O3 metal matrix composites,” Materials Research Express, 6(7), pp. 1-15 (SCI-Impact Factor 1.15).
2. **Singh A.,** and Bala N. (2017), “Fabrication and Tribological Behavior of Stir Cast Mg/B4C Metal Matrix Composites”, Metallurgical and Materials Transanctions A, Vol. 48(10), pp. 5031-5045. (SCI-Impact Factor-1.875).
3. **Singh A.,** and Bala N. (2017), “Evaluation of Microstructural and Mechanical Behavior of Some Magnesium Metal Matrix Composites”, Advanced Materials Manufacturing & Characterization, Vol. 7(2), pp. 38-43.
4. **Singh, A.,** and Bala, N., (2017), “Review on Wear Behaviour of Magnesium Matrix Composites”, International Journal of Engineering Research & Technology, Vol. 5(5), pp. 1-5, ISSN: 2278-0181.
5. **Singh A.,** and Bala N. (2017), “Study of Mechanical Behavior of Alumina Reinforced Magnesium Metal Matrix Composites”, International Journal of Surface Engineering and Material Technology, accepted for publication.
6. Satinder Singh, **Amandeep Singh** (2015) Synthesis of Nano sized SiC Powder, International Journal of Engineering Research & Technology,” Vol. 4(9), pp-856-859.
7. Bhavdeep Sharma, Baljinder Ram and **Amandeep Singh** (2014), “experimental investigation of mechanical properties of friction stir processed aluminium alloy 7075 by taguchi method”, Journal of Emerging Trends in Engineering, Sciences and Technology, Vol.1(1), pp. 32 – 42. (ISSN: 1355-2511)
8. Lakhvir singh, Baljinder Ram and **Amandeep Singh** (2013), “Optimization of process parameter for stir casted aluminium metal matrix composite using Taguchi Method”, IJRET-International Journal of Research in Engineering and Technology, Vol. 2(8), pp. 250 – 278. (eISSN: 2319-1163).
9. **Singh, A**., Ratol, J.S., Bala, N., V.(2012), “Effect of welding parameters on Tensile Behaviour of friction stir welded joints of AA6082 and AA5083 alminium alloys”Int. Journal of Surface engineering and Material technology,pp-16-23

**International/National Conference Publications**

1. **Singh, A**., Bala, N., (2017), “Review on Wear Behavior of Magnesium Matrix Composites,” International Conference on ESDST at BBSB Engg College Fatehgarh Sahib. Jan. 2017.
2. **Singh, A**., Bala, N., (2012), “Review of recent Studies in magnesium matrix composites fabricated by stir casting” International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering ([AFTMME-2012](http://ptuconferences.com/aftmme2012/)),October 5-7, at PTU,Jalandhar,India pp-360-366.
3. **Amandeep Singh**, Baljinder Ram, NirajBala, Dharampal Deepak (2015) Magnesium and its applications in automotive sector: An overview, November 6-7,2015 pp495-502
4. Lakhvir Singh, Lakhvir Singh, **Amandeep singh** (2015) Optimization of Process Parameter For Al/Fly Ash Metal Matrix, National conference on Advances in Mechanical Industrial and Material Engineering 2015,pp- 409-424
5. Satinder Singh, **Amandeep Singh**, NirajBala (2015) Wear Behaviour of Aluminium Matrix Composites Reinforced With Nano Sized Alumina And Silicon Carbide, November 6-7,2015,pp-437-446
6. **Singh, A**., Deo, N.P., Ratol, J.S. (2010), “Experimental Investigations on friction stir welding of AA6082-AA5083 disimmilar Alminium alloys” Proceedings of National Conference on Futuristic Trends in Mechanical Engineering “FTME–2010” Ludhiana, October 29-30, 2010 pp 313-319

**FDPs/ Workshops/ Seminars**

* + Attended two week Staff Development programme on “Lean Manufacturing: Today and Tomorrow” from December 08, 2008 to December 19, 2008 at BBSBEC, Fatehgarh Sahib.
  + Attended one national Seminar on “Vision 2020” on June 20, 2008 at DBEC Mandi Gobindgarh.
  + Attended one week Faculty Development programme on “Machine Design” from July 5, 2010 to July 9, 2010 at BBSBEC, Fatehgarh Sahib
  + Attended three day Faculty Development programme on “Emotional intelligence for organization excellence” from July 12, 2010 to July 14, 2010 at BBSBEC, Fatehgarh Sahib
  + Attended two day Faculty Development programme on “Human Values” from July 16, 2010 to July 17, 2010 at BBSBEC, Fatehgarh Sahib
  + Attended one week Faculty Development programme on “Dale Carnegie Faculty Empowerment Programme” from July 19, 2010 to July 23, 2010 at BBSBEC, Fatehgarh Sahib.
  + Attended one week Mission 10X workshop supported by Wipro from July 19, 2010 to July 23, 2010 at BBSBEC, Fatehgarh Sahib.
  + Attended three day programme on “Secrets of Guru” from Dec.14, 2010 to Dec. 16, 2010 supported by ISO certified company Seed at BBSBEC, Fatehgarh Sahib.
  + Attended one week Faculty Development programme on “Industrial Automation & Robotics” from July 12, 2012 to July 18, 2012 at BBSBEC, Fatehgarh Sahib.
  + Attended one week Faculty Development programme on “Advances in Mechanical engineering” from March 23, 2015 to March 27, 2015 at Bahra Faculty of Engineering, Patiala.
  + Attended one Month internship programme in June 2017 at IIT, Ropar.
  + Attended one day workshop on “Sustainable Manufacturing” on March 19, 2019 at IIT, Ropar.

**M. Tech. Thesis guided as co-guide (year wise): =8**

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| **S. No.** | **Name of student** | **Tittle of Thesis** | **Year of thesis** |
| 1. | Lakhvir Singh | To study the mechanical behavior of aluminum based metal matrix composite reinforced with alumina | 2013 |
| 2. | Lakhvir Singh | Production and mechanical characterization of AL/Fly ash metal matrix composites by stir casting technique | 2013 |
| 3. | Bhavdeep Sharma | Experimental investigation of mechanical properties of friction stir processed aluminium alloy 7075 | 2014 |
| 4. | Chamanjeet singh | Fabrication of Magnesium based composite using friction stir processing | 2014 |
| 5. | Onkar singh | To study the effect of friction stir processing on mechanical properties of AL 5251 alloy | 2014 |
| 6. | Gurdeep Singh | To study the effect of friction stir processing on mechanical properties and microstructure of AA5251/B4C based composite | 2015 |
| 7. | Parminder Singh | Fabrication and mechanical characterization of Al/B4C based metal matrix composites by stir casting technique. | 2015 |
| 8. | Satinder Singh | Fabrication and wear testing of nano and micro carbides/oxides reinforced aluminium based metal matrix composites. | 2015 |

**Membership of Professional Bodies/Societies**:

(i) Life Member ISTE (National).

(ii) Member of IAENG International Association of Engineers Member No: 101325.

**Course Taught:**

1. Engineering Graphics And Design
2. Machine Drawing
3. Design of Machine Elements 1
4. Design of Machine Elements 2
5. Manufacturing Processes 1
6. Manufacturing Processes 1

**Foreign Visit:**

Attended International Multi Conference of Engineers and Computer Scientists from 19-MAR-

2008 to 21-MAR-2008 at The Regal Kowloon Hotel Tsimshatsui/ Hongkong.

**Other Activties:**

* Organizing Secretary of one day workshop on Mining held at BBSBEC Fatehgarh Sahib in 2019. (Sponsered by IEI India).
* Organized quiz competition, teachers day, Freshers party etc.
* Performed duty as Observer and Centre Supdt during university Examinations.
* Head examiner in PTU evaluation center.
* Performed duty in time table committee of the department.
* Convener of admission process.
* Lab Incharge Fluid Machinery lab.
* Member review committee during national conference and all India seminar.

Personal information

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D.O.B: 20, December, 1981

Status: Married

Place: Patiala (Dr. Amandeep Singh)