

BIO-DATA



1. a). **Name** : **Dr. Rutash Mittal**
b). **Father's Name** : **Sh. Kewal Kumar Mittal**
c). **Address Present** : **Assistant Professor (15600-39100, AGP of 8000)**
Department of Mechanical Engineering
Malout Institute of Management & Information
Technology, Malout
Green Field Enclave, Near New Grain Market
Malout-152107, Punjab (India)
Mobile : 9876333349
E-mail : rutashmittal@gmail.com

2. a). **Date of Birth** : **19-05-1981** b). **Age** : **35 Years 9 Months**
c). **Category** : **General** d). **Sex** : **Male**

3. **Field of specialization**

High temperature exposure of welded joints, Metallurgy, Welding & Joining Techniques, Surface Engineering

4. **Academic Achievement and Awards**

- Got Merit Scholarship in 10th class with certificate from Secretary, School Education, Punjab
- Letter of Appreciation from Deputy Commissioner, Shri Muktsar Sahib on Akshay Urja Diwas on 20.8.2007
- Got overall 5th rank during B. Tech. Course at GZSCET, Bathinda
- Achieved 2nd Rank in M. Tech. studies at Punjab Engg. College (PEC), Chandigarh
- Got Young Scientist Scholarship from DST/SERB in May 2016.

5. **Educational Qualification**

S.No	Name of the Degree	Year	Board/University/Institute	% age of Marks & Division
1.	High school 10 th	1996	Punjab School Education Board, Mohali	88.8% Got First Rank in District and selected for scholarship
2.	10+2	1998	C.B.S.E/ DAV College, Chandigarh	77.4%
3.	B.Tech. (Mechanical Engineering)	2002	Punjab Technical University, Jalandhar (GZSCET, Bathinda)	70.97% 5 th Rank in College
4.	M.E. (C.I.M)	2004	Panjab University, Punjab Engg. College (PEC), Chandigarh	74.2% 2 nd Rank
5.	Ph.D.	2016	Punjabi University, Patiala Topic : STUDIES ON DISSIMILAR METAL WELDMENTS EXPOSED TO ELEVATED TEMPERATURE	July 2016

6. Employment Record (From Present to Past):

Organization	Period		Designation
	From	To	
Malout Institute of Management & Information Technology, Malout, Punjab	27-06-2006	Contd.	Assistant Professor
R.I.M.T. Institute of Engineering & Technology, Mandigobindgarh, Punjab	18-07-2005	26-06-2006	Lecturer
G.T.B.K.I.E.T, Chhapiawali, Malout	01-08-2004	15-07-2005	Lecturer
B.C.E.T, Ludhiana	10-12-03	31-07-04	Lecturer

7. Invited Lectures/Expert Lecture/Online Edusat Lecture:

S.N.	Title of Lecture/ Academic Session	Title of Conference/Seminar etc	Date(s) of the event	Organised by	Whether International / National
1.	Session Chair	Latest Developments in Materials, Manufacturing and Quality Control	19-20 February, 2015	Giani Zail Singh PTU Campus, Bathinda	National
2.	Session Chair	Latest Developments in Material, Manufacturing & Quality Control	12-13 February, 2016	Giani Zail Singh Campus, Bathinda	International
3.	Session Chair	4 th International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering	25-27 Feb., 2016	Organized by Society of Materials and Mechanical Engineers (SOMME), Punjab held at Baba Farid College of Engineering and Technology, Bathinda	International
4.	Expert Lecture Topic : Dissimilar metal weldments exposed to elevated temperature	FDP on Advances in Materials and Manufacturing Technology	18-7-2011 to 22-7-2011	MIMIT- Malout and PTU, Jalandhar	National
5.	Expert Lecture Topic : Corrosion of weldments	FDP on Advances in welding Technology & Surface Engineering	11-7-2012	MIMIT- Malout and PTU, Jalandhar	National
6.	Expert Lecture Topic : Advanced Machine Design	Seminar for Post graduate students of Mechanical Engineering Department of GZSCET, Bathinda	30-03-2013	Mechanical Engineering Department of GZSCET,	National

				Bathinda	
7.	Expert Lecture Topic : Computer aided design for machines	Seminar for Post graduate students of Mechanical Engineering Department of GZSCET, Bathinda	06-04-2013	Mechanical Engineering Department of GZSCET, Bathinda	National
8.	EDUSAT online Lecture on Details of Manufacturing Machines delivered through Directorate of Technical Education, Chandigarh	EDUSAT online Lecture	Feb., 2013	Directorate of Technical Education, Chandigarh	National
9.	EDUSAT online Lecture on Manufacturing Processes delivered through Directorate of Technical Education, Chandigarh	EDUSAT online Lecture	April, 2013	Directorate of Technical Education, Chandigarh	National
10.	EDUSAT online Lecture on welding and Welding Processes delivered through Directorate of Technical Education, Chandigarh	EDUSAT online Lecture	April, 2014	Directorate of Technical Education, Chandigarh	National
11.	EDUSAT online Lecture on Fe C Diagram, TTT Diagram and Heat Treatment Processes delivered through Directorate of Technical Education, Chandigarh	EDUSAT online Lecture	Feb., 2014	Directorate of Technical Education, Chandigarh	National

8. Publications:

(a) Research Papers Published in International Journals

S. N.	Title with page no.	Journal name with year/month/vol.	ISSN / ISBN No.	Whether peer reviewed. Impact factor, if any
1.	Microstructural and Mechanical properties of dissimilar T91/347H steel Weldments, pp. 76-86.	Journal of Materials processing Technology, June 2015/ Vol. 220	ISSN:0924-0136	Yes, (Thompson Reuter Impact factor of 2.36)
2.	Oil-Ash Corrosion Resistance of Dissimilar T22/T91 Welded Joint of Super Heater Tubes, pp. 670-682.	Journal of Materials Engineering & Performance, Feb., 2015, Vol. 24, No. 2	Print ISSN:1059-9495 online:1544-1024	Yes, (Thompson Reuter Impact factor of 1.094)
3.	Study of corrosion behavior of SA213T91 Boiler steel in the environment of air and Na ₂ SO ₄ -60% V ₂ O ₅ at 900°C, pp. 58-63.	International Journal of Research in Mechanical Engineering & Technology (IJRMET) July- 2013/ Oct./ Vol. 3, No. 2	2249-5762 (online) 2249-5770 (Print)	Yes, Thomson Reuters Indexed Journal

4.	Comparative study on corrosion behaviour of SA213T22 and SA213T91 Steels in molten salt Environment of Na ₂ SO ₄ -60% V ₂ O ₅ , pp. 19-26.	Asian Review of Mechanical Engineering, July-Oct., 2013/ Vol. 2, No. 3	2249-6289	Yes
5.	Microstructural and Mechanical Characterization of different zones of T91/T22 Weldment, pp. 45-49.	International Journal of Surface Engineering & Material Technology, July-Dec., 2014, Vol. 4, No. 2,	ISSN: 2249-7250 (print)	Yes
6.	Studies on Microstructural Properties of GTAW Weldment of ferritic steels, pp. 158- 166.	Materials Forum (Published by Institute of Materials Engineering Australasia Ltd), 2016, Vol. 38		Yes
7.	Mechanical and Metallurgical aspects of Dissimilar Metal Welds A Review	International Journal of applied Engineering Research ,2015, Vol. 10 No.54	Online ISSN 0973-9769, Print ISSN 0973-4562	Yes
8.	Comparative Evaluation of Impact Strength of Dissimilar Metal Weld between T91 and 304SS Prepared by SMAW and GTAW Techniques	Indian Journal of Science and Technology, October 2016, Vol. 9(39)	ISSN (Print) : 0974-6846 ISSN (Online) : 0974-5645	Yes

8(b) Research Papers Published/Presented in National and International Conferences

1. **Mittal, R.**, and Belokar, R. M. (2006), “New Systems/ Changes in Manufacturing/ CIM,” In Proceedings of National Conference on CAD, at NITTTR Chandigarh on 23-25 March, 2006
2. **Mittal, R.** (2006), “New Systems in Computer Integrated Manufacturing” in Proceedings of COIT at RIMT-IET, Mandigobindgarh, Punjab
3. **Mittal, R.**, Goyal, L. and Sidhu, B. S. (2007), “An Analysis and study of the cold spray process and its coatings” in Proceedings of National Conferences on Advances in Materials and Manufacturing Technology at Punjab Engineering. College, Chandigarh on September 21-22, 2007.
4. **Mittal, R.** and Bhagla, S., (2008), “ Next Generation Manufacturing Systems: Reconfigurable and Intelligent Machines in Proceedings of 3rd National Conferences on Recent Developments in Mechanical Engineering at Thapar University, Patiala on November 14-15, 2008
5. **Mittal, R.**, Vivek, Singla, N. and Garg, H.,(2009), “Global Warming: Challenges and Solutions” in the proceedings of 4th National Conferences on Innovative Developments in engineering Applications, at Bhai Gurdas Institute of Engineering & Technology, Sangrur on March 26-27, 2009.
6. Vivek, **Mittal, R.**, Singla, N. (2009), “Role of Engineering Materials in Biomedical Sciences” in the proceedings of 4th National Conferences on Innovative Developments in Engineering

Applications, at Bhai Gurdas Institute of Engineering & Technology, Sangrur on March 26-27, 2009.

7. Singla, N., Vivek, Garg, H. and **Mittal, R.** (2009), “Hybrid Welding” in the proceedings of 4th National Conferences on Innovative Developments in Engineering Applications, at Bhai Gurdas Institute of Engineering & Technology, Sangrur on March 26-27, 2009.
8. Singla, N., Vivek, Garg, H. and **Mittal, R.** (2009), “Microstructural Effect on weld Metal for Cold Cracking of HSLA Steel” in the proceedings of 4th National Conferences on Innovative Developments in engineering Applications, at Bhai Gurdas Institute of engineering & Technology, Sangrur on March 26-27, 2009.
9. Goyal, L., **Mittal, R.**, Chawla, V. and Hundal, J. S. (2011), “Comparison of Corrosion behavior of nano structured TiAlN and AlCrN coatings on different substrates,” Proc. of National Conference LASER 2011 at Baba Farid College of Engineering and Technology, Bathinda on 26-27th May, 2011.
10. **Mittal, R.**, Goyal, L. and Sidhu, B. S. (2011), “Some Studies on the Dissimilar Metal Weldments,” Proc. National Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering, 7-8th Oct., PTU, Jalandhar, India, pp. 127-132.
11. Goyal, L., **Mittal, R.**, Chawla, V. and Hundal, J.,S. (2011), “Corrosion behavior of different nano crystalline coatings,” Proc. National Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering, 7-8th Oct., PTU, Jalandhar, India, pp. 307-311.
12. **Mittal, R.** and Sidhu B.S. (2012), “Metallurgical Aspects of Dissimilar Metal Weldments: A Review”, Proc. of the International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering, Punjab Technical University, Jalandhar, Punjab, India, pp. 669–675.
13. Goyal, L., **Mittal, R.**, Chawla, V. and Hundal, J.,S. (2012), “Technological Aspects of Nanostructured coatings-A Review”, Proc. of the International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering, Punjab Technical University, Jalandhar, Punjab, India, pp. 771–776.
14. **Mittal, R.** and Sidhu, B. S. (2014), “A review of Dissimilar Metal Joints used in Industry,” Proc. of National Conference on Latest Developments in Materials, Manufacturing and Quality Control, GZS PTU Campus, 13-14th Feb., Bathinda, India, pp. 57-62.
15. **Mittal, R.**, Sethi, A. and Sharma, B. (2014), “Study of mechanical properties of dissimilar metal weldments” presented at National conference at Universal Institute of Technology, Hansi, Haryana on 21-22 Feb., 2014.
16. **Mittal, R.** and Dhaliwal, N.P.S. (2014), “A review in the field of welding of different materials” in the proceedings of National Conference On Advancements In Simulation Techniques And Experimental Techniques on 20-21st Feb., at Chandigarh University, Punjab
17. **Mittal, R.** and Sidhu, B.S. (2014), “Studies on Microstructural Properties of GTAW Weldment of ferritic steels”, presented in the **Third Biennial International Conference of Combined Australian Materials Societies at University of Sydney**, Sydney, Australia on 26-28th November, 2014, Paper No. A 2.8.
18. **Mittal, R.**, Singh, Surinder and Dhaliwal, N.P.S., (2015), “Mechanical and Metallurgical aspects of Dissimilar Metal Welds A Review” in the proceedings of 2nd National Conference On Advancements In Simulation Techniques And Experimental Techniques at Chandigarh University, Punjab.
19. **Mittal, R.** and Singh, H. and Sidhu, R. S., (2015), “Influence of tool geometry on mechanical properties of friction stir welding of AA6063,” Proc. of National Conference on Latest

Developments in Materials, Manufacturing and Quality Control, GZS PTU Campus, 19-20th Feb. 2015, Bathinda, India, pp. 225-231.

20. **Mittal, R.**, Sethi, A. and Sharma, B. (2015), “Study the effect of various arc welding on dissimilar weldments,” Proc. of National Conference on Latest Developments in Materials, Manufacturing and Quality Control, GZS PTU Campus, 19-20th Feb. 2015, Bathinda, India, pp. 79-81.
21. **Mittal, R.** and Sidhu, B.S. (2016), “Microstructural and Mechanical Properties of Dissimilar Metal Weldment of Ferritic and Austenitic Steels”, presented at INTERJOIN (3rd International Congress & 21 Technical Sessions on Welding and Joining Technologies) held at Gijon, Spain from 17th – 19th May, 2016.
22. **Mittal, R.** and Singh, K (2017), “The effect of lanthanum on microstructure and mechanical properties of stir casted Mg alloy”, to be presented at 7th International Conference of Materials Processing and Characterization to be held at Hyderabad, India from 17th – 19th March, 2017.

9. M.Tech Thesis Guided/guiding:

Guided 04 M. Tech thesis and 07 in progress.

10. Subjects Taught

(Graduate Level) : Engineering Drawing, Elements of Mechanical Engineering, Computer Graphics, Strength of Material, Machine Drawing, Manufacturing Processes-I, Engineering Material & Metallurgy, Manufacturing Processes-II, Computer Added Design & Manufacturing, Heat Transfer, Fluid Machinery and CAD/CAM.

(Postgraduate Level): Operations Management (IE-503), Simulation of Industrial System (IE-504), Material Management (IE-510), Production & Inventory Control (IE-508), Industrial Automation (IE-519), Advanced Heat and Mass Transfer (MME- 503), Advanced Machine Design (MME-505), Computer aided Design, Operations Management (MME-508), Computer aided Manufacturing and Projects-1 and 2.

11. Seminars/Short Term Courses/Workshops attended

S.No	From	To	Host Institute / Industry	Sponsored by	Name of the Course/workshop
1.	26-12-05	30-12-05	Department of Mechanical Engineering, National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh	NITTTR, CHANDIGARH	CNC Technology
2.	27-03-06	31-03-06	Department of Mechanical Engineering, Indian Institute of Technology(IIT), Delhi	AICTE, New Delhi ,Indian Institute of Technology(IIT) DELHI	Practices in Mathematical Modeling
3.	13-06-06	16-06-06	National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh	NITTTR, Chandigarh	Renewable Energy Based Technologies
4.	09-07-07	13-07-07	QIP Center, Indian Institute of Technology(IIT) Roorkee	AICTE, New Delhi ,Indian Institute of Technology(IIT) Roorkee	Product Design and Development

5.	06-07-09	10-07-09	QIP Center, Indian Institute of Technology(IIT) Roorkee	AICTE, New Delhi ,Indian Institute of Technology(IIT) Roorkee	Computational Fluid Dynamics
6.	20-07-09	01-08-09	Central Library, MIMIT-Malout	AICTE, New Delhi	Library Automation Networking & Digitization
7.	19-10-09	30-10-09	MIMIT-Malout	DST New Delhi & EDI-1 Ahmedabad	Faculty Development Programme
8.	19-7-10	28-7-11	PTU, Jalandhar	Ministry of sports and youth affairs and PTU, Jalandhar	NSS training and orientation programme
9.	18-7-11	22-7-11	MIMIT-Malout	PTU, Jalandhar	Advances in Materials and Manufacturing Technology
10.	25-7-11	29-7-11	MIMIT-Malout	PTU, Jalandhar	Pedagogical Importance of Comm. Skills & Personality development
11.	09-1-2012	13-1-12	MIMIT-Malout	PTU, Jalandhar	Introduction to MATLAB & its Applications
12.	21-5-2012	1.06.2012	Department of Mechanical Engineering, Shaheed Bhagat Singh State Technical Campus, Moga Road, Ferozepur, Punjab	AICTE New Delhi	Multi-Criteria Optimization Tools in Research
13.	04.06.2012	08.06.2012	MIMIT-Malout	PTU, Jalandhar	Cloud Computing
14.	09.07.2012	13.07.2012	MIMIT-Malout	PTU, Jalandhar	Advances in welding Technology & Surface Engineering
15.	19.11.2012	23.11.2012	Applied Science Department, National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh	National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh	NANOMATERIALS : Characterization & Applications
16.	17.12.2012	21.12.2012	Department of Applied Science & Humanities, Shaheed Bhagat Singh State Technical Campus, Moga Road, Ferozepur, Punjab	TEQIP (Phase –II)	Engineering Materials
17.	03.06.2013	07.06.2013	Department of Rural development, National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh	National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh	Innovative approach to skill development and employment generation in India
18.	8.7.2013	12.07.2013	Computer Science Department, MIMIT Malout	National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh	.Net Technologies

19.	02.12.2013	13.12.2013	Computer Science Department, MIMIT Malout	National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh	Cyber Security and Forensics
20.	21.4.2014	02.05.2014	Computer Science Department, MIMIT Malout	National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh	Network Security and Firewall
21.	23.6.2014	27.6.2014	MIMIT Malout	ISTE New Delhi and PTU, Jalandhar	Coding Theory and its applications
22.	16.6.2014	20.6.2014	MIMIT Malout	ISTE New Delhi and PTU, Jalandhar	Introduction to LAB View and its applications
23.	17.8.2015	21.8.2015	Department of Rural development, National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh	National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh	Operationalisation of NSQF, Community college and other skill development schemes of GOI through ICT
24.	20.7.2015	31.7.2015	Computer Science Department, MIMIT Malout	National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh	Vulnerabilities in cyberspace and adopting security policies
25.	01.6.2015	05.6.2015	MIMIT-Malout	PTU, Jalandhar	Automation and digital library
26.	01.04.2015		PTU, Jalandhar	PTU, Jalandhar	Workshop on Mechanical Engineering
27.	24.2.2016		Guru Nanak Dev Thermal Plant, Bathinda	Society of Materials and Mechanical Engineers (SOMME)	One day National Workshop on Thermal Spray Technology at Guru Nanak Dev Thermal Plant, Bathinda organized by SOMME
28.	29.6.2016		Society of Materials and Mechanical Engineers (SOMME)	Society of Materials and Mechanical Engineers (SOMME)	One day National Workshop on Thermal Spray Technology at Confederation of Indian Industries (CII) organized by SOMME

12. Membership of Professional Bodies/Societies

- Life Member of **Indian Society for Technical Education [I.S.T.E.]**, New Delhi having Membership Number: LM80402
- Member of **The Institution of Engineers** with Membership Number: M-148721-8
- Life Member of **Punjab Academy of Sciences, Patiala** having Membership Number: L-1389
- Founder Member of Society of Materials and Mechanical Engineers (SOMME), Punjab
- Member of International Association of Engineers (IAENG) with membership number: 139928

13. Administrative Responsibilities:

1. Faculty Incharge **ISTE (Indian society for technical education)**, at MIMIT Malout from Oct 2008 to 30.09.2014.
2. **Co-ordinator N.S.S** at MIMIT Malout from 1.8.2009 to 15.9.2011.
3. **Co-ordinator** Departmental Training & Placement Cell from Aug 2008 to 30.9.2014.
4. **Depty supdt.** of University Exams at MIMIT Malout in DEC 2006- JAN 2007.
5. **Suptd.**, University Exams at MIMIT Malout in DEC 2015- JAN 2016.
6. **Observer** in CET-2008, CET-2009 and CET-2010 Exam. Conducted by PTU, Jalandhar.
7. **Chief Coordinator** for Eklego-09 (National level Technical festival) hosted by MIMIT.
8. **Presiding officer in** Punjab Zila Parishad and Panchayat Samities Elections held in May 2008 and May 2013.
9. **Presiding officer** in Parliament Elections and Vidhan Sabha Elections held in May 2009, Feb., 2011 and Feb., 2017
10. **Technical Editor** of College Magazine **MIMITIANS** (campus Publication) for 2010 , 2011, 2013
11. **Convener** of the committee to select best student to be nominated for ISTE best student award.
12. University Observer for PTU Examination in 2010,2011, 2014 and 2015
13. Worked as **Master Trainer** in Census 2011 appointed by Govt. of India, attended training at Muktsar Head quarter and have imparted training to around **75 College lecturers.**
14. **Presiding officer** in Punjab Assembly Elections held in Feb. 2012.
15. **Chairman**, Department Research Committee (**DRC**) of the Regional Centre of the University.
16. **In charge** *Central Workshop* and *M.Tech. Regional Centre* at MIMIT Malout since 01.10.2014
17. **Warden Boys Hotel** at MIMIT Malout since 01.10.2014
18. **Flying Squad Incharge** for University Examinations 2016-2017 appointed by the University.

14. Name and Address of Referees:

- Dr. Buta Singh Sidhu, Dean Academics, M.R.S. Punjab Technical University, Bathinda, Punjab, India. Mobile: 9501109002, Email: butasidhu@yahoo.com
- Dr. Jasbir Singh Hundal, Registrar, M.R.S. Punjab Technical University, Bathinda, Punjab. Mobile: 8871200251, Email: jshundal@yahoo.com
- Dr. Satya Prakash, Professor Emeritus, Metallurgical and Materials Engineering Department, Indian Institute of Technology (IIT), Roorkee, Utrakhnad, India, Ph: 09837394220, Email: truthfmt@iitr.ernet.in
- Dr. Jaskaran Singh Bhullar, Principal, Malout Institute of Management and Information Technology, Malout, Punjab Ph: 09356737037, Email: bhullarjaskarn@rediffmail.com

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

Dr. Rutash Mittal

Assistant Professor

Mechanical Engineering Department

In charge Central workshop and

M.Tech. Regional Centre

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