

Faculty Profile

Name : Dr. Akhilesh Kumar Singh

Designation : Assistant Professor

Qualification : Ph.D

Experience : 9.6 Years

Professional Memberships :

- Life Time Membership with *Indian Welding Society (L01561)*
- *Prerna Society of Technical Education and Research (PRE/RNAST/13-1335)*
- *IJRITCC Journal Editorial Board* Membership No. (*IJRITCC_EB_209*)
- *IAIAR Journal Editorial Board* Membership No. (*INAF17100*)
- *IEEE* Member/Customer No. (*92597099*)



Areas of Interest :

- He is a researcher and research interests in new welding methods & their developments in manufacturing fields.
- Modeling and Optimization of manufacturing & production processes.
- Interest in image processing approaches.

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Address :

Dr. Akhilesh Kumar Singh (Assistant Professor)
Department of Mechanical Engineering
Sasi Institute of Technology & Engineering, Tadepalligudem
West-Godavari, Andhra Pradesh - 534101, India

Academic Background :

Course	Specialization	Name of the Institution	Year of pass
Ph.D.	Welding Technology (Production Engg.)	NIT- Agartala, Tripura (west) in 2017.	2017
P.G.	Manufacturing Technology &	BRCM College of Engg. & Tech., Bahal, Haryana	2011

	Automation		
UG	Mechanical Engineering	BRCM College of Engg. & Tech., Bahal, Haryana	2008
Inter/ Diploma	PCM, English, Phy.Edu.	Army School, Hisar Cantt, Haryana	2004
S.S.C	All Subjects	Army School, Hisar Cantt, Haryana	2002

Professional Experience :

S.No.	Position Held	Name of the Organization	Period
1	Assistant Prof.	SASI Institute of Tech. & Engg., Tadepalligudem, AP	01 Year + Till date
2	Assistant Prof.	BRCM College of Engg. & Tech., Bahal, Haryana	1.3 Years
3	Adhoc Lecturer	BRCM College of Engg. & Tech., Bahal, Haryana	03 Years
4	Trainee Engineer	Insta Exhibition Pvt. Ltd., Vasai (Mumbai)	0.3 Years

Projects Handled:

UG	PG
1	0

List of Conferences attended:

S.No.	Title with page no.	Details of conference Publications	ISSN / ISBN No.	No. of Co-authors and date of publication
1	A Comparative Study on the Different Techniques Utilized on TIG Welding to Weld Grade P91 Steel Plates to Improve BP	Advances in Materials and Manufacturing (ICAMM-17), NIFFT, Ranchi, Jharkhand (India)		2 & 19 th -21 st January, 2017
2	Simple to Formulate a Resourceful Electric Water Vacuum Cleaner	International Conference Sponsored by AICTE on "RTCMC-2012", Om Institute of		1 & 25-26 February 2012

		Technology & Management, Pg-316;		
3	Deformation and fracture mechanism during forging of sintered perform	International Conference Sponsored by IEEE on "ICIT-09", PDM Engg. College, Bahadurgarh, Haryana, India		3 & 18th to 19 June 2009.
4	Control and Monitoring of Behavior of Distractive Mind of Students by Electronic Control System in College & Hostel	National Conference on "NCETEC-2010", BRCM CET, Bahal, Haryana, India		2 & 24-25, Dec.2010
5	Packaging and Dimensioning Technology	National Conference on "RDME-2010", BRCM CET, Bahal, Haryana, India		2 & 19-20, Feb.2010.
6	Non Conventional Energy Sources [Hybrid system (Wind - Solar) For Lighting Application]	National Conference on "RDME-2010", BRCM CET, Bahal, Haryana, India		3 & 19-20, Feb.2010.
7	Sun Tracker Using Hydraulic System	National Conference on "IEDES-2009", BRCM CET, Bahal, Haryana, India		07-08, March 2009.

List of Publications:

S.No.	Title with page no.	Journal	ISSN / ISBN No.	Whether peer reviewed. Impact factor, if
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				any
1	Techniques to improve weld penetration in TIG welding (A review)	Journal of Materials Today: Proceedings, Elsevier Journal		SCOPUS
2	A Study to Increase Weld Penetration in P91 Steel during TIG Welding by using a Backing Medium	Journal of Materials Today: Proceedings, Elsevier Journal		SCOPUS
3	A Study to Increase Weld Penetration in P91 Steel during TIG welding by using Activating Fluxes	IOP Proceedings, IOP Conf. Series: Materials Science and Engineering		SCOPUS
4	Study on the effect of high-temperature ceramic fiber insulating board to weld grade p-91 steel	Journal of Manufacturing Processes		SCI 2.322
5	A Study to Enhanced the Depth of Penetration in Grade P91 Steel Plate Using Alumina as Flux in FBTIG Welding	Arabian Journal for Science and Engineering		SCI 0.865
6	An Approach to Maximize Weld Penetration During TIG Welding of P91 Steel Plates By Utilizing Image Processing And Taguchi Orthogonal Array	Journal of The Institution of Engineers (India): Series C		SCOPUS
7	Weld Bead Geometry Dimensions Measurement Based on Pixel Intensity by Image Analysis Techniques	Journal of The Institution of Engineers (India): Series C		SCOPUS
8	Opinion regarding chemical technology and its applications	J. Chem. Tech. App.		Reputed J.
9	A Study on Effect of Preheating and Post Weld Heat Treatment (PWHT) of Grade P91 Steel	JMSME		Reputed J.
10	Mechanised TIG Welding Gives Consistent Bead Geometry, A Case Study	IJMEE		UGC

List of WORKSHOPS/ SEMINARS/COURSES ATTENDED (Recent First):

1. Two Days National Level Workshop on **“Experimental Techniques in Welding Technology”** organized by Department of Mechanical Engineering, Aditya College of Engineering & Technology, 22nd to 23th Dec. 2017.
2. One Week Faculty Development Program on **“Advances in Manufacturing of composites (AMC-2017)”** organized by Department of Mechanical Engineering, Sasi Institute of Technology & Engineering, West Godavari, Tadepalligudem, Andhra Pradesh, India, 27th Nov. to 2nd Dec. 2017.
3. Two Days National workshop on **“Inventory Management: Challenges and Opportunities”** organized by Department of Production Engineering, NIT - Agartala, Tripura (w), 26th to 27th Sep. 2016
4. Two Days National workshop on **“Advances in Non-Conventional Machining Processes”** organized by Department of Production Engineering, NIT - Agartala, Tripura (w), 09th to 10th May 2016.
5. One Week Short Term Training Program on **“Condition Monitoring of Industrial Machineries”** organized by Department of Production Engineering, NIT - Agartala, Tripura (w), 25th to 29th April 2016.
6. One Day workshop on **“Material Characterization using Electron Back-Scatter Diffraction (EBSD) Technique”** organized by Department of Mechanical Engineering, **Birla Institute of Technology and Science (BITS), Pilani, Hyderabad Campus** to be held on 5th to 7th Feb 2016.
7. Three Days workshop on **“Computational Study on Fluid Transport Phenomena”** organized by Department of Mathematics, National Institute of Technology Agartala to be held on 5th to 7th Feb 2016.
8. Three Days workshop on **“Recent Advancement in Soft Computing Techniques”** organized by Department of Mathematics, National Institute of Technology Agartala to be held on 28th to 31st January, 2016.
9. Two Days **30th National Convention of Production Engineers and National Seminar on Sustainable Manufacturing** organized by The Institution of Engineers(India) – Tripura State Centre and Department of Production Engineering, NIT Agartala., Tripura (w), 18th to 19th July **2015**.
10. One Day Workshop on **Recent Research Trends on Physics of Matter: A Quest for Interdisciplinary Functionality** organized by Department of Physics, NIT Agartala., Tripura (w), 10th Apr.**2015**.

11. One Day Workshop on **Good Governance Day for Education System** organized by Department of Mechanical Engineering, NIT - Agartala, Tripura (w), 09th Apr. **2015**.
12. Four Days workshop on **Design of Experiments & Statistical Modeling** being organized by Indian Statistical Institute Hyderabad and NIT, Sikkim during 25th to 28th March 2015 at **NIT Sikkim**.
13. Two Days Workshop on **Advances in Manufacturing Technology and Mechatronic Systems** organized by Department of Production Engineering, NIT - Agartala, Tripura (w), 13th to 14th Mar. **2015**.
14. Three Days National Workshop on **PROCESS CONTROL IMPROVEMENT and OPTIMIZATION** organized by Department of Statistical Quality Control & Operation Research Unit ISI, Kolkata and Department of Statistics, **M.B.B. College- Agartala, Tripura (w)**, 16th to 18st Feb. **2015**.
15. Two Days National Workshop on **HUMAN COMPUTER INTERACTION** organized by Department of Computer Science & Engineering, NIT - Agartala, Tripura (w), 13th to 14st Feb. **2015**.
16. Two Days National Workshop on **CLOUD COMPUTING** organized by Department of Computer Science & Engineering, NIT - Agartala, Tripura (w), 20th to 21st Oct. **2014**.
17. Two Days National Workshop on **Recent Advances on Applied Mathematics** organized by Department of Mathematics, NIT - Agartala, Tripura (w), 20th to 21st Sep. **2014**.
18. Three Days short-term courses on **Multi-Objective Optimization Methods and Applications in Manufacturing (MOOMAM-2014)** organized by Department of Mechanical Engineering, **NIT-Rourkela 769008, Odisha**, 6th -8th June 2014.
19. Two Days National Workshop on **MATLAB and its Application in ANN, Fuzzy Logic & Genetic Algorithm** organized by Department of Production Engineering, NIT - Agartala, Tripura (w), 20th to 21st March **2014**.
20. One Week Short Term Course on **Application of Soft Computing & Optimization Techniques in Engineering & Engineering Science (ASCOTEES – 2014)** organized by Department of Electrical Engineering, **NIT – Durgapur, West Bengal**, 4th to 8th March **2014**.
21. Three Days North – East ISI – **NIT Agartala Spring School on Algorithms for Mobile and Pervasive Computing** organized by Department of ECE and CSE,

- NIT - Agartala, Tripura (w), 24th to 26th February **2014**.
22. Two Days National Workshop on **Recent Advances in Welding Process** organized by Department of Production Engineering, NIT - Agartala, Tripura (w), 30th to 31st Jan.**2014**.
 23. Two Days National Workshop on **Advances in Multi- Criteria Decision Making (MCDM) Techniques** organized by Department of Production Engineering, NIT - Agartala, Tripura (w), 13th to 14th Jan.**2014**.
 24. Two Days National Workshop on **Advances Materials & Machining** organized by Department of Production Engineering, NIT - Agartala, Tripura (w), 09th to 10th Jan.**2014**.
 25. Two Days National Workshop on **MATLAB and Application in Digital Image Processing and Pattern Recognition** organized by Department of Computer Science & Engineering, NIT - Agartala, Tripura (w), 29th to 30th Nov.2013.
 26. Two Days National Workshop on **Reliability Engineering & Management** organized by Department of Mechanical Engineering, NIT - Agartala, Tripura (w), 28th to 29th Nov.2013.
 27. Two Days National Workshop on **Advances in Tribology** organized by Department of Production Engineering, NIT - Agartala, Tripura (w), 08th to 09th Nov.2013.
 28. One Days National Workshop on **Contemporary and Future Perspectives of Bio – Engineering in Medical Science and Technology** organized by Department of Physics, NIT - Agartala, Tripura (w), 09th July. **2013**.
 29. One Days National Workshop on **Contemporary and Future Perspectives of Physics Applicable to Science and Technology: Challenges and opportunities** organized by Department of Physics, NIT - Agartala, Tripura (w), 04th Feb. **2013**.
 30. Two days ISTE Workshop on **Aakash for Education** under the National Mission on Education through ICT Conducted by **IIT Bombay**, organized in BRCM CET, Bahal, Haryana, **10th to 11th Nov.2012**.
 31. Three days ISTE sponsored National Workshop on **Computer Aided Technologies (CA – x)** organized by Department of Mechanical Engineering, BRCM CET, Bahal, Haryana, **2011**.
 32. Three days ISTE sponsored National Workshop on **Engineering Drawing – the Language of Engineers** organized by Department of Mechanical Engineering,

BRCM CET, Bahal, Haryana, **23rd to 25th Sep.2011.**

33. One day National Workshop on *Learning- How to Teach* organized by Department of Mechanical Engineering, BRCM CET, Bahal, Haryana, **2009.**

List of Workshops/ Seminars/Courses Conducted (Recent First):

1. Organized a Five-day Technical Events on the eve of **“Engineers Day”** held at Department of Mechanical Engineering, Sasi Institute of Technology & Engineering, Tadepalligudem, A.P. from 11th to 15th September 2017. [Dr. A.K. Singh was the main coordinator; Total number of participants was =40]
2. Organized a Two-day Technical Events on the eve of **“ANVESHANA – Techno Cultural Fest 2018”** held at Sasi Institute of Technology & Engineering, Tadepalligudem, A.P. from 23rd to 24th February 2018. [Dr. A.K. Singh was the main coordinator; Total number of participants was =13 in Department of Mechanical Engineering]

Achievements:

Invited for Chair/Speaker:

- Invitation for **9th World Gene Convention-2018**, which will take place in **Singapore** during November 13-15, 2018.
- Invitation for World Education Day-2018, with a theme of **“One World, One Education”** will be held during September 28-30, 2018 in Jinan, **China**.
- Invitation for **4th Annual World Congress of Smart Materials-2018** with you. The WCSM-2018 is confirmed to be held on Mar 6-8, 2018 in Osaka, **Japan**, with the theme of **"Weaving a Avatar Dream Together"**.
- Invitation for plenary speaker for **“EuroSciCon Conference on Smart Materials”** on October 04-06, 2018 at Amsterdam, **Netherlands**.
- Invited talk for the **“EMN Meeting on Alloys and Compounds”**, taking place from July 16 to 20, 2018 in Berlin, **Germany**.
- Invitation for plenary speaker for **“EuroSciCon Conference on Atomic & Plasma Science”** 2018, scheduled to be held during July 16-17, 2018 at Prague, **Czech Republic**.

- Invitation for “World Congress on Biopolymers and Bioplastics” during August 29-30, 2018 at **Berlin, Germany** with the theme “Synthesis and Characterization of Biopolymers & Polymer Sciences”.

Reviewer

- Reviewer of **Journal of Real-Time Image Processing**, Springer
- Reviewer of **Journal of Advances in Science, Technology and Engineering Systems**

Editorial Board

- Editorial board member of *Journal of Chemical Technology and Applications*, Allied Academies; London, United Kingdom.
- Editorial board member of "*International Journal on Recent Technologies in Mechanical and Electrical Engineering*" (*IJRMEE*) is a peer-reviewed, journal, published by research department of Auricle Technologies Pvt. Ltd.
- Editorial board member of "*International Journal on Recent and Innovation Trends in Computing and Communication*" is an open access peer-reviewed international forum and Best Computer Science Journal for scientists and engineers.
- Editorial board member of *IAIAR: International Journal of Science, Engineering & Technology*.

Project Applied for:

- Innovative Project Idea Contest 2.0 (Round 1) under **New Gen IEDC**, sponsored by DST, Govt. of India, 2018
– (Escape from motorcycle accidents involving stray dogs and any obstructions in the road by using Mechanical linkage mechanism and Electronics devices)

Guinness World Records

- **Most people folding Origami sculptures simultaneously** at NIT Agartala, Tripura, India in 24th January 2017