Personal Details

Name: **Dr. Azher Jameel**

Designation: **Assistant Professor**
Department of Mechanical Engineering
National Institute of Technology Srinagar, India - 190006.

Date of Birth: **12th April 1989**

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Summary

1. More than 12 years of teaching experience at reputed universities of India.
2. Held important administrative positions at different universities.
    a. Head, Department of Mechanical Engineering, Islamic University of Science and Technology Awantipora, India. (3 Years)
    b. Coordinator, National Board of Accreditation, Islamic University of Science and Technology Awantipora, India. (3 Years)
    c. Member, Board of Research Studies, Islamic University of Science and Technology Awantipora, India. (3 Years)
    d. Chairman, Departmental Research Committee, Islamic University of Science and Technology Awantipora, India. (3 Years)
    e. Member SPGC, National Institute of Technology Srinagar, India (2 Years)
    f. DPGC Convenor, Department of Mechanical Engineering, National Institute of Technology Srinagar, India (2 Years)
    g. PhD Coordinator, Department of Mechanical Engineering, National Institute of Technology Srinagar, India (2 Years)
    h. UG, Project Coordinator, Department of Mechanical Engineering, National Institute of Technology Srinagar, India (2 Years)
3. Supervised 03 PhD students on computational mechanics and currently 05 candidates pursuing their PhD research under my guidance.
4. Published more than 90 research papers in international journals and conferences of high repute.
5. Published a book on "Enriched Numerical Techniques: Implementation and applications". Elsevier Publications (ISBN: 978-0443153624).
6. Life Member, American Society of Mechanical Engineers (ASME).
7. Life Member, Indian Institution of Engineers (IEI).
8. Life Member, Indian Society of Technical Education (ISTE).
9. Life Member, Indian Society of Theoretical and Applied Mechanics (ISTAM).

(a) Field of Specialization

- Computational Solid Mechanics
- FEM, XFEM and Meshfree Methods
- Elasto-Plastic Analysis
- Fracture and Fatigue in Structures
- Magneto-Electro-Elastic Materials
- Bio-mechanics

(b) Academic Qualifications

Degree	Institute	Title of Thesis	CGPA	Year
PhD	National Institute of Technology Srinagar, India	Applications of Enriched Methods in Solving Problems Containing Discontinuities	-	**2017**
M.Tech	Indian Institute of Technology Roorkee, India	Numerical Simulation of Contact Problems Using XFEM/EFGM	**9.00**	**2013**
B.Tech	National Institute of Technology Srinagar, India	Design of a Safety System for Blind Curved Roads	**7.19**	**2010**
GATE	Indian Institute of Technology Madras, India	Not Applicable	**99.2** (Percentile)	**2011**

(c) Positions Held

S.No	Rank	Department	University	Country	From	To
1.	Assistant Professor	Mechanical Engineering	National Institute of Technology Srinagar	India	26-08-2022	Till Date
2.	Assistant Professor	Mechanical Engineering	Islamic University of Science and Technology Awantipora	India	05-05-2018	25-08-2022
3.	Assistant Professor	Mechanical Engineering	Shri Mata Vaishno Devi University Katra	India	01-01-2015	04-05-2018

(d) Administrative Positions Held

S. No.	Position Held	Department	University	Country	From	To
1.	Member, SPGC	NIT Srinagar	NIT Srinagar	India	May 2026	Till Date
2.	DPGC Convenor	Mechanical Engineering	NIT Srinagar	India	May 2026	Till Date
3.	PhD Coordinator, MED	Mechanical Engineering	NIT Srinagar	India	May 2023	May 2026
4.	Project Coordinator, B.Tech	Mechanical Engineering	NIT Srinagar	India	May 2023	July 2025
5.	Incharge, Mechanics of Materials Lab.	Mechanical Engineering	NIT Srinagar	India	September 2022	Till Date
6.	Head of Department	Mechanical Engineering	IUST Awantipora	India	November 2018	December 2021
7.	Member, Board of Research Studies	Mechanical Engineering	IUST Awantipora	India	November 2018	December 2021

8.	Research Coordinator SoET, IUST	Mechanical Engineering	IUST Awantipora	India	September 2020	August 2022
9.	Coordinator, National Board of Accreditation	Mechanical Engineering	IUST Awantipora	India	November 2019	December 2021
10.	Coordinator B. Tech (First Year)	Mechanical Engineering	IUST Awantipora	India	July 2018	November 2019
11.	Incharge, Academic Counselling & Mentoring	Mechanical Engineering	IUST Awantipora	India	July 2018	November 2019
12.	Member, Departmental research Committee	Mechanical Engineering	IUST Awantipora	India	June 2018	August 2022
13.	Member, Finance Committee, TEQIP-III	Mechanical Engineering	IUST Awantipora	India	July 2018	September 2021
14.	Incharge, Materials Testing Lab.	Mechanical Engineering	IUST Awantipora	India	July 2018	August 2022

(e) Academic Honors and Awards

- Qualified Graduate Aptitude Test in Engineering (GATE) conducted by Indian Institute of Technology Madras in 2011 with 99.2 percentile.
- Awarded for pursuing M.Tech (PG) program in Mechanical Engineering at Indian Institute of Technology Roorkee India from 2011 to 2013.

(f) Membership of Professional Bodies

- Life Member, American Society of Mechanical Engineers (ASME). Membership No: 21100086691
- Life Member, Indian Institution of Engineers (IEI); Membership No: M-1795893
- Life Member, Indian Society of Technical Education (ISTE); Membership No: LM-138848
- Life Member, Indian Society of Theoretical and Applied Mechanics (ISTAM). Membership No: L/1092

(g) Books Published / Edited

- **Azher Jameel**, G. A. Harmain, I. V. Singh, Magd. A. Wahab, "Enriched Numerical Techniques: Fundamentals and Applications", Elsevier Publications. (ISBN: 978-0443153624).

(h) Research Publications

	Published	Under-Review	Total
Journals	37	5	42
Conferences	40	0	40
Book Chapters	08	0	08
Total	85	5	90

(i) Research Grants

Type	Role	Title	Awarding Body	Duration	Grant Amount
Research Grant	Co-PI	Fatigue Crack Growth Analysis of High Entropy Alloys	NPIU, Govt of India	24 months	17,16,667 (INR)
Research Grant	PI	Mechanical Characterization of Wood Obtained from Different Trees Available in J&K	JK ST&IC	24 months	7,00,000 (INR)

(j) Research Students Supervised

Level	Number of Students
PhD	03 (completed) 05 (on-going)
M.Tech (PG)	13
B.Tech (UG)	42

Details of PhD Students

S. No.	Name of Candidate	Research Area	Co-guide (if any)	Year of Passing
1.	Vibushith Gupta	Modelling of Strong and Weak Discontinuities by XIGA	Dr. Yatheshth Anand (SMVDU Katra)	2024
2.	Showkat Ahmed Kanth	Elasto-Plastic Crack Growth using Enriched Numerical Techniques	Prof. G. A. Harmain (NIT Srinagar)	2022
3.	Aazim Shafi Lone	Modelling and Simulation of Contact Problems Using Enriched Techniques	Prof. G. A. Harmain (NIT Srinagar)	2022
4.	Ummer Amin Sheikh	Experimental Solid Mechanics	Dr. M. Junaid Mir (IUST Awantipora)	On-going
5.	Mumtaz Ahmad	Investigation of fatigue crack growth in nickel based super alloys	Dr. M. Mursaleen (NIT Srinagar)	On-going
6.	Tawseef Abdullah	Characterization and bio-compatibility of Titanium alloys	Dr. Abhijit Dey (NIT Jamshedpur)	On-going
7.	Farzana Nazir	Advanced Computational Mechanics	-	On-going
8.	Andleeb	Experimental Bio-mechanics	Prof. G. A. Harmain (NIT Srinagar)	On-going
9.	Mehak Shah	Advanced Computational Mechanics	Dr. Ved Prakash (NIT Srinagar)	On-going

(k) Main Contributions in Research

Developed a new novel technique based on the coupling of the conventional finite element method with iso-geometric analysis. The proposed technique is called as the "The Coupled FE-IGA method" and was first published by "Mechanics of Advanced Materials and Structures (Taylor and Franics)" in 2018. The proposed technique was found to have a strong potential in modelling crack growth in engineering materials. The technique was later employed to model large elastic-plastic deformations in bi-material components.

- **Azher Jameel**, G. A. Harmain, "A Coupled FE-IGA Technique for Modeling Fatigue Crack Growth in Engineering Materials", Mechanics of Advanced Materials and Structures (Taylor and Francis), Vol. 26, pp. 1764–1775, 2019.
- **Azher Jameel**, G. A. Harmain, "Large Deformation in Bi-material components by XIGA and Coupled FE-IGA Techniques", Mechanics of Advanced Materials and Structures (Taylor and Francis) Vol. 29, pp. 850-872, 2022.

(l) Guest Lectures at Universities

- Delivered an expert lecture on "Enriched Numerical techniques" in a Short-Term Course on Discretization Techniques (FEM, FDM, FVM), organized by the Department of Mechanical Engineering, National Institute of Technology Srinagar, India from 5th – 9th June, 2023.

- Delivered an expert lecture on "Fundamentals and Applications of Enriched Computational Techniques" in a Faculty Development Program on Emerging Trends in Mechanical Engineering, conducted by the Department of Mechanical Engineering, Aligarh Muslim University, India from 7th – 11th March, 2022.
- Delivered eight expert lectures on "Fundamentals and Applications of Finite Element Methods" in the Department of Mechanical Engineering, National Institute of Technology Srinagar, India from 16th – 20th October, 2017.

(m) Courses Taught

S.No	Course Name	S.No	Course Name
1.	Machine Design	8.	Finite Element Methods
2.	Strength of Materials	9.	Fracture Mechanics
3.	Design of Machine Elements	10.	Advanced Mechanics of Solids
4.	Mechatronics	11.	Design for Maintenance
5.	Mechanical Vibrations	12.	Control Systems
6.	Robotics and Mechatronics	13.	Measurement Systems
7.	Theory of Elasticity	14.	Continuum Mechanics

(n) Training Programs Attended

- Attended and successfully completed 12 weeks online course on "Finite Element Method", conducted by NPTEL-AICTE from Jan-April 2022. Obtained a consolidated score of 81% with Elite Certification in the course.
- Attended four weeks "General Orientation Course" at the Human Resource Development Center, University of Kashmir, Srinagar, India, from 25-02-2019 to 26-03-2019.
- Attended one day workshop on "NPTEL Awareness", organized by IIT Kanpur at Islamic University of Science & Technology Awantipora, India on 30th November, 2018.
- Attended three days workshop on "A Roadmap to Growth of Teaching, Learning and Research", organized by Department of Management Studies, Islamic University of Science and Technology Awantipora, India in association with IIT Roorkee, India from 16-08-2018 to 18-08-2018.
- Attended one week faculty development program on "Sustainable Design and Manufacturing", organized by Department of Mechanical Engineering, Shri Mata Vaishno Devi University Katra, India from 12-02-2018 to 16-02-2018.
- Attended one day workshop on "Patent Drafting and Filing", organized by Department of Biotechnology, Shri Mata Vaishno Devi University, Katra, India in collaboration with Technology Information, Forecasting and Assessment Council (TIFAC), Department of Science & Technology (DST), Govt. of India on 20th October, 2016.
- Attended a short-term course on "Optimization Using MATLAB", organized by Department of Mechanical Engineering, Shri Mata Vaishno Devi University, Katra, India in collaboration with NITTTR, Chandigarh, India from 24-10-2016 to 28-10-2016.
- Attended a short-term course on "Recent Trends in Automobile Engineering", organized by the Department of Mechanical Engineering, Shri Mata Vaishno Devi University, Katra, India in collaboration with NITTTR, Chandigarh, India from 29-02-2016 to 04-03-2016.

(o) Membership of Conference Committees

- Member, International Scientific Committee, "4th International Conference on Applied Materials and Manufacturing Technology (ICAMMT 2018)" held at the Kunming, China, September 21-23, 2018.
- Member, Organizing Committee, "6th World Conference on Applied Science, Engineering and Technology-2018 (WCASET-2018)" held at the Goa, India, January 2-3, 2018.
- Member, Organizing Committee, "One Week Workshop on Ultrasonic Testing (Level-II)" held at the Department of Mechanical Engineering, Shri Mata Vaishno Devi University, Katra, India, November 29-December 03, 2017.
- Member, Organizing Committee, "National Seminar on Research Opportunities and Challenges in Mechanical Engineering" held at the Department of Mechanical Engineering, Shri Mata Vaishno Devi University, Katra, India, April 8, 2017.
- Member, Organizing Committee, "National Conference on Innovative Trends in Mechanical Engineering - 2017 (NCITME-2017)" held at the Department of Mechanical Engineering, Shri Mata Vaishno Devi University, Katra, India, March 3-4, 2017.

(p) Reviewer of Journals

S.No	Name of Journal	ISSN No.	Publisher	Since
1.	Mechanics of Advanced Materials and Structures	1537-6494	Taylor and Francis	2016
2.	Fatigue and Fracture of Engineering Materials and Structures	1460-2695	John-Wiley	2018
3.	Ocean Engineering	0029-8018	Elsevier	2020
4.	Engineering Fracture Mechanics	0013-7944	Elsevier	2021
5.	Theoretical and Applied Fracture Mechanics	0167-8442	Elsevier	2021

List of Publications

- **Books Published / Edited**

1. **Azher Jameel**, G. A. Harmain, I. V. Singh, Magd. A. Wahab, "Enriched Numerical Techniques: Fundamentals and Applications", Elsevier Publications. (ISBN: 978-0443153624).

- **International Journals**

1. V. Gupta, S. K. Verma, **Azher Jameel**, Y. Anand," Extended Isogeometric analysis of Fatigue Crack Growth in Engineering Components", Mechanics of Solids (Springer), vol. 61, pp. 176, 2026
2. M. J. Mir, H. Makroo, **Azher Jameel**, F. A. Mir, J. A. Bhat, M. F. Wani, Nano-Graphene Platelet-Assisted MQL: Tool Wear, Surface Quality, and Wear Mechanism Assessment", Journal of Bio-and Tribo-Corrosion (Springer), vol. 12, pp. 171, 2026.
3. Ruhil Majid, **Azher Jameel**, "Effect of Microstructure, Loading Conditions, Corrosion and Temperature on Fatigue Crack Growth in AZ31 Magnesium Alloy", Mechanics of Solids (Springer), vol. 61, pp. 55, 2026.
4. Farzana Nazir, **Azher Jameel**, "Total Lagrangian Based Element Free Galerkin Method for Modelling Geometric Nonlinearities in Beams", Mechanics of Solids (Springer), vol. 60, pp. 6377-6401, 2025.
5. Mumtaz Ahmad, **Azher Jameel**, M. Mursaleen, "Fatigue Crack Growth Behavior of Inconel 617 Alloy: Effect of Microstructure, Temperature, Loading, Corrosion and Creep-Fatigue Interaction", Mechanics of Solids (Springer), vol. 60, pp. 5784-5819, 2025.
6. A. S. Lone, S. A. Kanth, **Azher Jameel**, G. A. Harmain, "A Comparative Study on Modeling and Simulation of Contact Problems Using Enriched Techniques", Iranian Journal of Science and Technology, Transactions of Mechanical Engineering (Springer), Vol. 49, pp. 1833–1855, 2025.

7. V. Gupta, S. K. Verma, S. Anand, **Azher Jameel**, Y. Anand, "Transient Isogeometric Heat Conduction Analysis of Stationary Fluid in a container", Part E: Journal of Process Mechanical Engineering, vol. 239, pp. 531-541, 2025
8. **Azher Jameel**, G. A. Harmain, M. J. Mir," Modelling of Large Elasto-plastic Deformations by EFGM" Journal of Polymer & Composites, vol. 12, pp. 130-143, 2024.
9. V. Gupta, **Azher Jameel**, S. K. Verma, S. Anand, Y. Anand,"An insight on NURBS based Isogeometric Analysis, its current status and involvement in Mechanical Applications" Archives of Computational Methods in Engineering (Springer), vol. 30, pp. 1187-1230, 2023.
10. A. S. Lone, **Azher Jameel**, G. A. Harmain, "Enriched Element Free Galerkin Method for Solving Frictional Contact between Solid Bodies", Mechanics of Advanced Materials and Structures (Taylor and Francis), Vol. 30, pp. 4227-4245, 2023.
11. A. S. Lone, **Azher Jameel**, G. A. Harmain, "Modelling of Contact Interfaces by Penalty Based Enriched Finite Element Method", Mechanics of Advanced Materials and Structures (Taylor and Francis), Vol. 30, pp. 1485–1503, 2023.
12. S. A. Kanth, A. S. Lone, **Azher Jameel**, G. A. Harmain, "Estimation of crack tip plastic zones in presence of material irregularities by extended finite element method", Journal of the Brazilian Society of Mechanical Sciences and Engineering (Springer), Vol. 45, pp. 340, 2023.
13. A. S. Lone, S. A. Kanth, G. A. Harmain, **Azher Jameel**, "Modelling of large sliding between contacting bodies by penalty based element free Galerkin method using node-to-segment approach", Iranian Journal of Science and Technology, Transactions of Mechanical Engineering (Springer), Vol. 01, pp. 1-18, 2023.
14. S. A. Kanth, G. A. Harmain, **Azher Jameel**, "Assessment of Fatigue Life in Presence of Different Hole Geometries by X-FEM", Iranian Journal of Science and Technology, Transactions of Mechanical Engineering (Springer), Vol. 47, pp. 1145-1159, 2023.
15. **Azher Jameel**, G. A. Harmain, "Large Deformation in Bi-material Components by XIGA and Coupled FE-IGA Techniques", Mechanics of Advanced Materials and Structures (Taylor and Francis), Vol. 29, pp. 850–872, 2022.
16. A. Lone, **Azher Jameel**, S. H. Deen, "Numerical investigation of crack Growth in metals and composites", Proceedings of Engineering Science, Vol. 3, pp. 473–490, 2021.
17. S. A. Kanth, **Azher Jameel**, G. A. Harmain, "Investigation of Fatigue Crack Growth in Engineering Components Containing Different Types of Material Irregularities by XFEM", Mechanics of Advanced Materials and Structures (Taylor and Francis), Vol. 29, pp. 3570–3587, 2022.
18. V. Gupta, **Azher Jameel**, S. Anand, Y. Anand, "Analysis of composite plates using isogeometric analysis: A discussion", Materials Today: Proceedings (Elsevier), Vol. 44, pp. 1190–1194, 2021.
19. **Azher Jameel**, G. A. Harmain, "Effect of Material Irregularities on Fatigue Crack Growth by Enriched Techniques", International Journal for Computational Methods in Engineering Science and Mechanics (Taylor and Francis), Vol. 21, pp. 109–133, 2020.
20. S. Lone, S. A. Kanth, **Azher Jameel**, G. A. Harmain, "XFEM Modelling of frictional contact between elliptical inclusions and solid bodies", Materials Today: Proceedings (Elsevier), Vol. 26, pp. 819–824, 2020.
21. S. A. Kanth, A. S. Lone, G. A. Harmain, **Azher Jameel**, "Modelling of embedded and edge cracks in steel alloys by XFEM", Materials Today: Proceedings (Elsevier), Vol. 26, pp. 814–818, 2020.
22. U. A. Sheikh, **Azher Jameel**, "Elasto-plastic large deformation analysis of bi-material components by FEM", Materials Today: Proceedings (Elsevier), Vol. 26, pp. 1795–1802, 2020.
23. **Azher Jameel**, G. A. Harmain, "A Coupled FE-IGA Technique for Modeling Fatigue Crack Growth in Engineering Materials", Mechanics of Advanced Materials and Structures (Taylor and Francis), Vol. 26, pp. 1764–1775, 2019.

24. **Azher Jameel**, G. A. Harmain, "Extended Iso-Geometric Analysis for modeling Three Dimensional Cracks", Mechanics of Advanced Materials and Structures (Taylor and Francis), Vol. 26, pp. 915–923, 2019.
25. **Azher Jameel**, G. A. Harmain, "Fatigue crack growth analysis of cracked specimens by the coupled finite element-element free Galerkin method", Mechanics of Advanced Materials and Structures (Taylor and Francis), Vol. 26, pp. 1343–1356, 2019.
26. S. A. Kanth, A. S. Lone, G. A. Harmain, **Azher Jameel**, "Elasto Plastic Crack Growth by XFEM: A Review", Materials Today: Proceedings (Elsevier), Vol. 18, pp. 3472–3481, 2019.
27. S. Lone, S. A. Kanth, **Azher Jameel**, G. A. Harmain, "A state of art review on the modeling of Contact type Nonlinearities by Extended Finite Element method", Materials Today: Proceedings (Elsevier), Vol. 18, pp. 3462–3471, 2019.
28. K. Singh, **Azher Jameel**, G. A. Harmain, "Investigations on crack tip plastic zones by the extended iso-geometric analysis", Materials Today: Proceedings (Elsevier), Vol. 5, pp. 19284–19293, 2018.
29. S. A. Kanth, G. A. Harmain, **Azher Jameel**, "Modeling of Nonlinear Crack Growth in Steel and Aluminum Alloys by the Element Free Galerkin Method", Materials Today: Proceedings (Elsevier), Vol. 5, pp. 18805–18814, 2018.
30. S. Lone, **Azher Jameel**, G. A. Harmain, "A Coupled Finite Element-Element Free Galerkin Approach for Modeling Frictional Contact in Engineering Components", Materials Today: Proceedings (Elsevier), Vol. 5, pp. 18745–18754, 2018.
31. G. A. Harmain, **Azher Jameel**, F. A. Najar, J. H. Masoodi, "Large Elasto-Plastic Deformations in Bi-material Components by Coupled FE-EFGM", IOP Conference Series: Material Science and Engineering, Vol. 225, No. 012295, pp. 1–7, 2017.
32. **Azher Jameel**, G. A. Harmain, Y. Anand, J. H. Masoodi, F. A. Najar, "Effect of Inclusions on the Shape and Size of Crack Tip Plastic Zones by Element Free Galerkin Method", International Journal of Mechanical, Aerospace, Industrial, Mechatronic and Manufacturing Engineering, Vol. 11, No. 3, pp. 414–419, 2017.
33. **Azher Jameel**, G. A. Harmain, "Modeling and Numerical Simulation of Fatigue Crack Growth in Cracked Specimens Containing Material Discontinuities", Strength of Materials (Springer), Vol. 48, No. 2, pp. 294–307, 2016.
34. **Azher Jameel**, G. A. Harmain, "Fatigue Crack Growth in Presence of Material Discontinuities by EFGM", International Journal of Fatigue (Elsevier), Vol. 81, pp. 105–116, 2015.
35. **Azher Jameel**, Tarlochan Singh, "Modeling and Simulation of Large Deformation Bi-material Problems Using EFGM", INROADS (An International Journal), Vol. 3, No. 1, pp. 48–53, 2014.
36. **Azher Jameel**, "A Comparative Study of XFEM and EFGM in Solving Frictional Contact Problems", International Journal of Engineering and Advanced Technology, Vol. 3, Issue: 4, pp. 324–331, 2014.
37. **Azher Jameel**, Qazi Junaid, Suhail Ahmed, "Large Sliding Frictional Contact Problems by a Penalty Based Approach", International Journal of Innovative Technology and Exploring Engineering, Vol. 3, Issue: 12, pp. 46–55, 2014.

- **International Conferences**

1. Farzana Nazir, **Azher Jameel**, "Analysis of large deformation in beams by element free Galerkin method", Proceedings of the 70th Congress of The Indian Society of Theoretical and Applied Mechanics (ISTAM-2025), organized by IIT Kharagpur at Vellore Institute of Technology Bhopal, India, December 10–12, 2025.
2. Farzana Nazir, **Azher Jameel**, "Total Lagrangian approach-based element free Galerkin method for columns", Proceedings of the 70th Congress of The Indian Society of Theoretical and Applied Mechanics (ISTAM-2025), organized by IIT Kharagpur at Vellore Institute of Technology Bhopal,

India, December 10–12, 2025.

3. Andleeb Wani, **Azher Jameel**, "Estimation of Crack Tip Plastic Zones in Cobalt Chromium Alloys by XFEM", Proceedings of the 70th Congress of The Indian Society of Theoretical and Applied Mechanics (ISTAM-2025), organized by IIT Kharagpur at Vellore Institute of Technology Bhopal, India, December 10–12, 2025.
4. Tawseef Abdullah, **Azher Jameel**, "Elasto-Plastic Crack Growth in Titanium Alloys by Extended Finite Element Method", Proceedings of the 70th Congress of The Indian Society of Theoretical and Applied Mechanics (ISTAM-2025), organized by IIT Kharagpur at Vellore Institute of Technology Bhopal, India, December 10–12, 2025.
5. Mumtaz Ahmad, **Azher Jameel**, "A review on fatigue crack growth behaviour of Inconel 600, 617 & 625 with focus on loading, overloading and temperature", Proceedings of the 70th Congress of The Indian Society of Theoretical and Applied Mechanics (ISTAM-2025), organized by IIT Kharagpur at Vellore Institute of Technology Bhopal, India, December 10–12, 2025.
6. **Azher Jameel**, G. A. Harmain, Mohammad Junaid Mir, "Modelling of Large Elasto-plastic Deformations by EFGM", Proceedings of the International Conference on Mechanical Engineering and Technology (ICMET-2024) scheduled to be held at the NIT Kurukshetra, Haryana, from 01-03 March, 2024.
7. A. Kumar, D. Ali, **Azher Jameel**, G. A. Harmain, "Effect of Inclusions on the Behavior of Cracks in Three-Dimensional Engineering Components", Proceedings of the 62nd Congress of The Indian Society of Theoretical and Applied Mechanics (ISTAM-2017), organized by IIT Kharagpur at University College of Engineering, Osmania University, Hyderabad, India 62-istam-sm-fp-93, pp. 1–9, December 15–18, 2017.
8. D. Ali, A. Kumar, **Azher Jameel**, G. A. Harmain, "Three-Dimensional Analysis of Cracks in Presence of Holes by FEM", Proceedings of the 62nd Congress of The Indian Society of Theoretical and Applied Mechanics (ISTAM-2017), organized by IIT Kharagpur at University College of Engineering, Osmania University, Hyderabad, India, 62-istam-sm-fp-92, pp. 1–8, December 15–18, 2017.
9. S. A. Kanth, G. A. Harmain, **Azher Jameel**, "Level Set Methodology for Representing Different Discontinuities in Engineering Materials", Proceedings of the 62nd Congress of The Indian Society of Theoretical and Applied Mechanics (ISTAM-2017), organized by IIT Kharagpur at University College of Engineering, Osmania University, Hyderabad, India, 62-istam-sm-fp-102, pp. 1–10, December 15–18, 2017.
10. A. S. Lone, G. A. Harmain, **Azher Jameel**, "A state of Art Review on the Level Set Method for Modeling Discontinuities in Engineering materials", Proceedings of the 62nd Congress of The Indian Society of Theoretical and Applied Mechanics (ISTAM-2017), organized by IIT Kharagpur at University College of Engineering, Osmania University, Hyderabad, India, 62-istam-sm-fp-103, pp. 1–8, December 15–18, 2017.
11. A. K. Singh, **Azher Jameel**, G. A. Harmain, "Modeling of Large Elasto-Plastic Deformations in Two Dimensional Bi-material Components by FEM", Proceedings of the 7th International Conference on Theoretical, Applied, Computational and Experimental Mechanics (ICTACEM-2017), held at IIT Kharagpur, India, ICTACEM-2017/226, pp. 1–10, December 28–30, 2017.
12. U. A. Sheikh, A. K. Singh, **Azher Jameel**, G. A. Harmain, "Three-Dimensional Large Deformation Analysis by FEM Using Total Lagrangian Approach", Proceedings of the International Conference on Composite Materials and Structures- (ICCMS 2017), held at IIT Hyderabad, India, pp. 1–11, December 27-29, 2017.
13. **Azher Jameel**, G. A. Harmain, Y. Anand, J. H. Masoodi, F. A. Najar, "Effect of Inclusions on the Shape and Size of Crack Tip Plastic Zones by Element Free Galerkin Method (EFGM)", Proceedings of the 19th International Conference on Theoretical and Computational Mechanics (ICTCM-2017), held at London, United Kingdom, Vol. 19 (3), pp. 1267–1272, March 14-15, 2017.

14. G. A. Harmain, **Azher Jameel**, F. A. Najar, J. H. Masoodi, "Large Elasto-Plastic Deformations in Bi-material Components by Coupled FE-EFGM", International Conference on Advanced Material Technologies (ICAMT-2016), held at DIET, Visakhapatnam, Andhra Pradesh, India, December 27-28, 2016.

15. **Azher Jameel**, G. A. Harmain, "Fatigue Crack Growth Analysis of Cracked Specimens by XFEM and EFGM", Proceedings of the 61st Congress of The Indian Society of Theoretical and Applied Mechanics (ISTAM-2016), organized by IIT Kharagpur at VIT University, Vellore, India, 61-istam-sm-fp-317, pp. 1–10, December 11–14, 2016.

16. **Azher Jameel**, G. A. Harmain, "Estimation of Crack Tip Plastic Zones by XFEM, EFGM and Coupled FE-EFG Techniques", Proceedings of the 61st Congress of The Indian Society of Theoretical and Applied Mechanics (ISTAM-2016), organized by IIT Kharagpur at VIT University, Vellore, India, 61-istam-sm-fp-347, pp. 1–10, December 11–14, 2016.

17. **Azher Jameel**, G. A. Harmain, "Applications of XFEM, EFGM and Coupled FE-EFG Techniques in Solving Fracture Mechanics Problems", Proceedings of the 60th Congress of The Indian Society of Theoretical and Applied Mechanics (ISTAM-2015), organized by IIT Kharagpur at National Institute of Technology, Jaipur, India, 60-istam-sm-fp-48, pp. 1–8, December 16–19, 2015.

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