CURRICULAM VITAE



Dr. AshishKhaira

B.E. (Hons.), M.Tech (Outstanding Grade), PhD

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OBJECTIVE

To work for a progressive organization in a highly motivating and challenging environment that provides the best opportunities to grow and utilize my potential to the fullest to achieve the organization's goal while achieving my personal goals.

PROFILESUMMARY

Hard-working, efficient, ambitious & energetic person with convincing capability; with multiple years of industrial and academic experience; NDT Level-II (UT), along with a published book, book chapter, journal articles, conferences, and magazine articles.

EDUCATIONALBACKGROUND

EDUCATIONALDACKOROUND							
Degree/Level	Branch/Subjects	Year of	Yearof	Full /Part-	Name of	Board/	% or GGPA
		Enroll	Passing	Time	Institution	University	
PhD	MechanicalEngg.	Aug	Sep	Full Time	MANIT,	MANIT,	9.20
		2014	2017		Bhopal-India	Bhopal-India	(Course Work)
M.Tech	Maintenance Engg	Aug	Aug	Full Time	MANIT,	MANIT,	9.98
		2011	2013		Bhopal -India	Bhopal-India	
B.E.	Mechanical. Engg.	Aug	July	Full Time	SATI (GEC),	RGPV,	79.38%
		2003	2007		<u>Vidisha</u> -India	Bhopal-India	
Intermediate	PCM	July	July	Full Time	NPHSS,	M.P. Board	86.2 %
		2002	2003		Bhopal-India		
High school	All Subjects	July	July	Full Time	NPHSS,	M.P. Board	78.8%
		2000	2001		Bhopal-India		

GATE:-

Year of Appearing	Discipline	Marks	Score	AIR	Status
2011	Mechanical	45.67/100	475	3678	Qualified

PROFESSIONAL CERTIFICATION

[1]. Non Destructive Testing Level Two - Ultrasonic Testing (NDT L:II - UT) certified by Trinity Institute of NDT Technology (A Unit of Trinity NDT), <u>India</u> having validity from 30th Sep 2020 to 29th Sep 2025 and certificate number TINT/228478 with aggregate 84.6%.

EXPERIENCE

Period	Organization Name	Designation	Specific Duties & Key Accomplishments
	& Profile		
1 st Jan	Samrat Asho	Assistant	Specific Duties-
2018 to Till	TechnologicalInstitute(Govt	Professor	Research & Academicactivities.
Now	Engg	(TEQIP	ProjectPlanning.
	College)Civil Lines, Vidisha	Faculty.;Under	SkillDevelopment
	(M.P.) 464001, INDIA		

	SATI, Vidisha was established on 1 Nov 1960; presently it is NAAC Accredited, A Grant-in-Aid Fully Autonomous Engg. College	NPIU, New Delhi)	LabEstablishments Key Accomplishments — One student team under me and my co-faculty mentorshipwonhardware edition of National level SIH-2020 (Organized by MHRD India) Delivered Expert Lecture on Research Dissemination& Intellectual Property in a faculty development workshop organized at SATI, Vidisha(M.P.) Delivered Expert Lecture on Engineering for the 21st Century in a student induction/motivation programorganiz at SATI, Vidisha(M.P.) Created official Twitterhandle & reincarnatedofficial LinkedInaccount of SATI, Vidisha (M.P.)
			MANIT- <u>Bhopal-India</u> ; Final Defense Completed on 29 th
	tification Issued on 5 th Oct 2017		
In between Ju Bhopal-India	•	ed post-graduation	(Full Time) in Maintenance Engineering from MANIT-
01 st FEB	Radharaman Institute of	Lecturer	Specific Duties
2009	Research & Technology,	(Mechanical	• Completed teachingactivities.
to	Bhopal(M.P.)	Engineering	• Served as a TG for various semesters.
21 st JULY		Deptt)	Delegated in the procurement of book & lab
2011	RIRT is belonging to the	1 /	requirementplanning.
(2 Year, 5	Radharaman Group of		Key Accomplishments
Month, 21	Institutes. It is one of the		• Delivered Improvement in the results of various
Days)	premier institutes in central		semesters by teaching as well assuggestions.
	India.		Proposed books and lab equipment to improve the skill
			& knowledge level ofstudents.
25 th JUNE	M/s J K Tyres& Industries	Joined as -	Specific Duties
2007	Ltd.,	GET	Delivered Improvement in equipment efficiency by
to 23 rd FEB	BanmoreTyre	Designation	using opportunity windows like material shortage &
2009	Plant, Gwalior (M.P.)	(After training	equipment breakdown for small maintenance activities.
(01 Year, 7	J K Tyres& Industries Ltd.	period) –	Resolved breakdown and troubleshooting through Why-2
Months)	is belonging to JK Industries. J K Tyres isa	Engineer (Mechanical	Analysis Key Accomplishments
	QS9000, TS16949 &ISO:	Maintenance	Handled the overall shift activities, preventive
	14001 certified	Deptt)	maintenanceactivities.
	leading tire manufacturing	P***/	Implemented TPM techniques with coordination of
	company.		Internal &otherdepartments.
			Delegated in the procurement of spareparts.
			Why-Whyanalysis.

Additional Responsibilities (Employer: SATI-Vidisha (M.P.)):

dditiona S.No	From	To	Position Held	Specific Duties & Key Accomplishments
1	31 st Dec 2019	Till Date	Member (Start-up Cell,	Specific Duties
			Incubation & IPR)	- To promote Start-Up and IPR among students
				faculties
				-To start incubation cell at institute level.
				Key Achievements
				-Organized Internal Hackathon 2020 from 15 th
				Jan 2020
2	17 th Jan 2019	Till Date	Program (ME)	Specific Duties
			Representative Career	- Placement of students
			Guidance Cell	-To prepare a complete database of AICTE
				mandates
				-Arranging training program related to
				placement
				-Preparing departmental alumni database
				-Enhancing connectivity with industries and
				alumni for industrial training and internship
				ofstudents
				Key Accomplishments:
				-Collected HR details(Email/Contact Number)
				of companies (approx.100) recruiting in MP
3	05 th Oct 2018	Till Date	Departmental	Specific Duties
			Representative (ME)	-Training, Placement, and internship for
			Training &Placement	students
	AL.	th		
4	06 th Sep 2018	30 th June	Tutor Guardian (I-Year	Specific Duties
		2010		=
		2019	Mechanical Engineering)	Mentoring students.
5	12 th March		Engineering)	Mentoring students.
5	12 th March 2018	Till Date		Mentoring students. Specific Duties
5			Engineering) Member,	Mentoring students. Specific Duties To promote the institute's presence in social &
5			Engineering) Member,	Mentoring students. Specific Duties To promote the institute's presence in social & print media.
5			Engineering) Member,	Mentoring students. Specific Duties To promote the institute's presence in social & print media. Key Accomplishments:
5			Engineering) Member,	Mentoring students. Specific Duties To promote the institute's presence in social & print media. Key Accomplishments: Created official Twitterhandle & reincarnated
5			Engineering) Member,	Mentoring students. Specific Duties To promote the institute's presence in social & print media. Key Accomplishments:
5			Engineering) Member,	Mentoring students. Specific Duties To promote the institute's presence in social & print media. Key Accomplishments: Created official Twitterhandle & reincarnated official LinkedInaccount of SATI, Vidisha
	2018	Till Date	Engineering) Member, Media Cell Departmental Representative (ME),	Mentoring students. Specific Duties To promote the institute's presence in social & print media. Key Accomplishments: Created official Twitterhandle & reincarnated official LinkedInaccount of SATI, Vidisha (M.P.)
	2018	Till Date 16 th Jan	Engineering) Member, Media Cell Departmental	Mentoring students. Specific Duties To promote the institute's presence in social & print media. Key Accomplishments: Created official Twitterhandle & reincarnated official LinkedInaccount of SATI, Vidisha (M.P.) Specific Duties To prepare/maintain the database of the alumni
	2018	Till Date 16 th Jan	Engineering) Member, Media Cell Departmental Representative (ME),	Mentoring students. Specific Duties To promote the institute's presence in social & print media. Key Accomplishments: Created official Twitterhandle & reincarnated official LinkedInaccount of SATI, Vidisha (M.P.) Specific Duties
	2018	Till Date 16 th Jan	Engineering) Member, Media Cell Departmental Representative (ME), Alumni Cell Member, Intellectual	Mentoring students. Specific Duties To promote the institute's presence in social & print media. Key Accomplishments: Created official Twitterhandle & reincarnated official LinkedInaccount of SATI, Vidisha (M.P.) Specific Duties To prepare/maintain the database of the alumni and strengthens the association and Institute-
6	2018 09 th May 2018	Till Date 16 th Jan 2019	Engineering) Member, Media Cell Departmental Representative (ME), Alumni Cell Member, Intellectual Property Cell	Mentoring students. Specific Duties To promote the institute's presence in social & print media. Key Accomplishments: Created official Twitterhandle & reincarnated official LinkedInaccount of SATI, Vidisha (M.P.) Specific Duties To prepare/maintain the database of the alumni and strengthens the association and Institute-Alumni bonding.
6	2018 09 th May 2018	Till Date 16 th Jan 2019	Engineering) Member, Media Cell Departmental Representative (ME), Alumni Cell Member, Intellectual Property Cell (Cell formed in	Mentoring students. Specific Duties To promote the institute's presence in social & print media. Key Accomplishments: Created official Twitterhandle & reincarnated official LinkedInaccount of SATI, Vidisha (M.P.) Specific Duties To prepare/maintain the database of the alumni and strengthens the association and Institute-Alumni bonding. Specific Duties
6	2018 09 th May 2018	Till Date 16 th Jan 2019	Engineering) Member, Media Cell Departmental Representative (ME), Alumni Cell Member, Intellectual Property Cell (Cell formed in collaboration with	Mentoring students. Specific Duties To promote the institute's presence in social & print media. Key Accomplishments: Created official Twitterhandle & reincarnated official LinkedInaccount of SATI, Vidisha (M.P.) Specific Duties To prepare/maintain the database of the alumni and strengthens the association and Institute-Alumni bonding. Specific Duties To motivate faculty & students for filing the
6	2018 09 th May 2018	Till Date 16 th Jan 2019	Engineering) Member, Media Cell Departmental Representative (ME), Alumni Cell Member, Intellectual Property Cell (Cell formed in	Mentoring students. Specific Duties To promote the institute's presence in social & print media. Key Accomplishments: Created official Twitterhandle & reincarnated official LinkedInaccount of SATI, Vidisha (M.P.) Specific Duties To prepare/maintain the database of the alumni and strengthens the association and Institute-Alumni bonding. Specific Duties To motivate faculty & students for filing the

FELLOWSHIPS /AWARDS

- [1] Fellowship for Doctoral Programs awarded by Ministry of Human Resource Development, Indiain the year 2014 for qualifying the doctorateregistration.
- [2] Fellowship for Master's Programs awarded by Ministry of Human Resource Development, India in the year 2011-2013 forpost-graduation.
- [3] Degree with Outstanding Performance in Master of Technology awarded by MaulanaAzad National Institute of Technology, India in the year 2013 for scoring above 9pointers.
- [4] Honors degree awarded by Rajiv Gandhi Technical University, Bhopal (M.P.) in the year 2007 for scoring 79.38% in graduation.
- [5] Certificate of merit awarded by SATI, Vidisha (M.P.) in session 2006-07 for securing second position in B.E. (Mechanical) -IIIyear.
- [6] Certificate of appreciation awarded by Manav Care Organization in the year 2001 for volunteer work in raising funds to benefit for handicapped & underprivilegedchildren.
- [7] Certificate of merit awarded by NPHSS, Bhopal (M.P.) in session 1998-99 for securing First Position in school in Class VIII.
- [8] Certificate of merit awarded by NPHSS, Bhopal (M.P.) in session 1999-2000 for securing First Position in school in Class IX.
- [9] Certificate of appreciation awarded by All World GayatriParivar Organization in the year 2001 for better performance in the Indian Cultural KnowledgeExamination.
- [10] Certificate of appreciation awarded by All World GayatriParivar Organization in the year 2000 for securing the second rank in the city {Bhopal (M.P.)} in the Indian Cultural KnowledgeExamination.
- [11] Certificate of appreciation awarded by All World GayatriParivar Organization in the year 1999 for securing the first rank in school {NPHSS, Bhopal (M.P.)} in the Indian Cultural KnowledgeExamination.

RESEARCH/CONSULTANCYPROJECTS

[1]. Research Project (As a Principal Investigator) entitled, "Development of Intelligent Structures using Concept of Embedded Structural Health Monitoring System" approved under "TEQIP Collaborative Research Scheme (NPIU-MHRD)" in 18thJune 2019; Co-PIs: Dr. Ravi K. Dwivedi (MANIT-Bhopal), Prof. Sanjay Jain (SATI-Vidisha); Project Budget: Rs. 12.70 Lac.

INTELLECTUALPROPERTY

International Patent

- [1]. Patent (As an **Applicant**) entitled "An Artificial Intelligence Based Real Time Drowsiness Detection System" filed on 17thSep 2020 with File No. 2020102320 and granted on 14 Oct 2020 (Australian Patent)
- [2]. Patent (As an **Applicant**) entitled "<u>Development of Android Based Auto Car Jack Using Internal Car Power</u>" filed on 14th April 2021 with File No. 2021101931 and granted on 19 May 2021 (**Australian Patent**)

National Patent (Patent search → Application Status)

- [1]. Patent (As an **Applicant**) entitled "<u>Crusher Apparatus for Decomposable Goods</u>" **filed** on 28thAug 2020 with File No. 332466-001 (Chennai, India)
- [2]. Patent (As an **Applicant**) entitled "<u>Emergency Notification Systems for Use with Footwear for User's Safety</u>" **published** on 10th July 2020 with Application No. 202041026841 A/ The Patent Office Journal No. 28/2020/ pp. 25985 (Chennai, India)
- [3]. Patent (**As an Applicant**) entitled "<u>Design for Solar Panel Cleaning System Using SPA Concept</u>" **published** on 05th June 2020 with Application No.202041017417 A/ The Patent Office Journal No. 23/2020/ pp. 21110 (Chennai,India)
- [4]. Patent (**As an Inventor**) entitled "<u>Design of Autonomous 5D Arm Robot for Industrial Application</u>" **published** on 28thFeb 2020 with Application No.202041007641 A/ The Patent Office Journal No. 09/2020/pp. 11250 (Chennai,India)

PUBLICATIONS

[I]. Research Papers-

(A).International

- Khaira, A., Dwivedi, R. K., & Jain, S. (2020). Structural Health Monitoring (SHM) of Machine Using a Combination of Non-Destructive Testing for Heavy Manufacturing Industry. In E3S Web of Conferences (Vol.184, p. 01059). EDP Sciences.eISSN: 2267-1242, IF(SNIP)-0.52 (Web of Science: CPCI)DOI: https://doi.org/10.1051/e3sconf/202018401059
- 2. Khaira, A., Dwivedi, R.K. (2019), Two-Step Decision Making Approach for Identification of Critical Equipment Using AHP and PROMETHEE with Improved Normalization. *Engineering Review-Journal* (Publisher: University of Rijeka, CROATIA), 39(2), 174-185. ISSN: 1330-9587, IF (SNIP)-0.760 (ESCI) DOI: http://doi.org/10.30765/er.39.2.7
- 3. Khaira, A., &Dwivedi, R. K. (2018). A State of the Art Review of Analytical Hierarchy Process. *Materials Today: Proceedings* (Publisher: *Elsevier*, UK), 5(2), 4029-4035. E-ISSN: 2214-7853, IF(SNIP)-0.694(Scopus)
- 4. Khaira, A., Dwivedi, R.K., (2017), A Review of the State-of-the-Art on Combining Multiple NDT Techniques in Terms of Precise Fault Detection. *International Journal of Engineering and Technology Innovation* (Publisher: Taiwan Association of Engineering and Technology Innovation, Taiwan), 7(3), 169-187. ISSN: 2223-5329, IF(SNIP)-0.613 (ESCI)
- 5. Khaira, A., Dwivedi, R.K., (2017). Identification of Critical Component to Enhance Equipment Availability in a Graphite Manufacturing Industry. *International Journal of Mechanical and Production Engineering Research and Development*(Publisher: Trans-stellar, India), 7(3), 25-32. ISSN: 2249-6890, IF(SNIP)-0.208(Scopus)
- 6. Khaira, A., (2016). Risk-Based Maintenance- A Unique Approach to Maintenance Management. Asset Management & Maintenance Journal, 29 (2), 22-27.ISSN:1835-789X(Scopus)
- 7. Khaira, A., Dwivedi, R.K., (2016). A State of the Art Critical Review of NDT Techniques and Its Development: A Review of more Than a Decade of Research. *International Journal of Advanced Information Science and Technology* (India), 5(7), 19-37. ISSN:2319-2682
- 8. Khaira, A., Srivastava, S., & Suhane, A. (2015). Analysis of the relation between ultrasonic testing and microstructure: a step towards highly reliable fault detection. *Engineering Review-Journal*(Publisher:University of Rijeka, CROATIA), 35(2), 87-96.ISSN: 1330-9587, IF(SNIP)-0.760(ESCI)
- Khaira, A., Suhane, A., & Srivastava, S. (2015). Comparative Analysis of Different Steel Grades for Francis Turbine Spiral Casing & Modification in Maintenance Strategy for Cavitations Prevention. *Chemical Science Review and Letters*(India), 13 (4), 179-187. ISSN:2278-6783 (*Chemical AbstractService*)
- **10. Khaira, A.,**Dwivedi, R. K., &Srivastava, S. (2014). A Study of NDT Techniques Together with Its Significance in Industries. *Journal of Advanced Engineering Research*(India), *1*(2), 126-129.ISSN: 2393-8447, IF(GIF)-**0.546**.
- 11. Khaira, A., Srivastava, S., & Suhane, A. (2013). Analysis of Co-Relation between Ultrasonic Testing and Micro Structural Examination for Condition Based Maintenance System. *International Journal of Engineering Sciences Research*(Publisher: Society of Scientific Research and Education (SSRE), India), 4 (2), 20-23.ISSN: 2230 8504, IF-2.0.
- 12. Khaira, A., Jain, A.K. (2012). An Optimized Decision for Opportunistic Maintenance or Event-Driven Maintenance of Industrial System. *International Journal of Scientific and Engineering Research*(India), 3(6), 1-5.ISSN:2229-5518 (*Thomson Reuters*),IF-4.2.
- **13. Khaira,A.,**Jain,A.K.(2012). Developmentofan Effective Maintenance Workman Skills Improvement Program. *International Journal of Engineering Research and Applications* (India), 2(2),131-137. ISSN: 2248-9622, IF-**5.011**.

[II]. Conferences (International/National)-

(A).International

1. Khaira, A., Dwivedi, R. K., & Jain, S. (2021, June). Review of structural health monitoring attributes optimization with multiple regression and teaching learning based optimization. In *IOP Conference Series: Materials Science and Engineering* (Vol. 1136, No. 1, p. 012061). IOP Publishing. (Web of Science: CPCI) DOI: https://doi.org/10.1088/1757-899X/1136/1/012061

- **2. Khaira, A.**, Dwivedi, R. K., & Jain, S. (2021, June). Optimization of structural health monitoring attributes under variable failure rate condition using teaching learning based optimization and multiple regressions. In *IOP Conference Series: Materials Science and Engineering* (Vol. 1136, No. 1, p. 012062). IOP Publishing. (Web of Science: CPCI) DOI: https://doi.org/10.1088/1757-899X/1136/1/012062
- **3. Khaira, A.,** Dwivedi, R. K., & Jain, S., (2020, July). Structural Health Monitoring (SHM) of Machine Using a Combination of Non-Destructive Testing for Heavy Manufacturing Industry. In 2nd International Conference on Design and Manufacturing Aspects for Sustainable Energy (ICMED 2020), Hyderabad, India, 2020.
- **4. Khaira, A.,**Dwivedi, R.K., (2017, March). A State of the Art Review of Analytical Hierarchy Process. In 7th International Conference of Materials Processing and Characterization (ICMPC-2017), Hyderabad, India, 2017.
- 5. Khaira, A., Dwivedi, R.K., Srivastava, S. (2016, February). A State of the Art Review of Online Condition Monitoring Tools using NDT as Principal Testing Technique. In 1st International Conference of Trends in Industrial and Mechanical Engineering (IC TIME 2016), Bhopal, India 2016, pp. 41-48.ISBN:978-93-84935-68-9
- 6. Khaira, A., Dwivedi, R.K., Srivastava, S. (2014, November). A Research Paper on Introduction of NDT Techniques and Its Practical Applications. In 1st International Conference of Industrial, Mechanical and Production Engineering: Advancements and Current Trends, Bhopal, India 2014, pp. 650-654.ISBN:978-93-84935-03-0

(B). National

- **1.** Gaur J., Jain S., **Khaira A.,** (2019, April).A Review of Power Transmission Error in Spur Gear (Vol. 1). In *IstNational Conference on Modern Tools in Engineering*, Vidisha, India *2013*,pp.224-226.ISBN:9789382346258.
- 2. **Khaira**, A. (2014, February). Maintenance Activities for Boilers. In 7th National Conference on Boiler & Steam Systems, Ahmadabad, India 2014, pp.60-62.
- Khaira, A., Suhane, A., Srivastava, S. (2013, August). Ultrasound Condition Monitoring System for Lubrication: A
 Combination of Preventive & Condition Based Approach. In 1st National Conference on Frontiers in Mechanical
 Engineering, Bhopal, India 2013, pp. 226-228.ISBN:978-93-83083-27-5

[III]. Authored Book/Book Chapter-

(A). Authored Book

1. Khaira, A., Jain, A.K. (2012). A Book on Decision Making For Event-Driven Maintenance (Vol. 1). Lambert Academic Publishing, Germany, ISBN: 978-38-47332-53-4, pp.1-92.

(B). EditedBook

1. Agarwal P., VermaP.L, SinghC.P., Sen N., **Khaira A.(2019).** *Edited Book-Modern Tools in Engineering* (Vol. 1). Balaji Publications, India, ISBN:9789382346258.

(C). BookChapter

- Khaira (2019).AReview Transmission 1. Gaur Jain S., A., of Power Error in Spur Gear (Vol. 1). In Edited Book-Modern Tools in Engineering (Editor: Dr. Pankaj Agarwal, Dr. P.L. Verma, Dr. C.P.Singh, Prof. NeerajSen, Dr. AshishKhaira), Balaji Publications, India, pp.224-226.ISBN:9789382346258.
- 2. Khaira, A., Dwivedi R.K., (2018). A State of Art Critique Review of Role of Decision Making Techniques in NDT for Condition Monitoring (Vol. 1). In Edited Book-Advanced Condition Monitoring and Fault Diagnosis of Electric Machines (Editor: Dr. Muhammad Irfan, Najran University, Saudi Arabia), IGI-Global, <u>USA.</u>pp.222-235.ISBN13: 9781522569893; ISBN10: 1522569898; EISBN13: 9781522569909; DOI: 10.4018/978-1-5225-6989-3.
- 3. Khaira, A., Dwivedi R.K., (2018). A State of Art Critique Review of Role of Optimization in NDTS for Effective Condition Monitoring (Vol.1). In Edited Book-Advanced Condition Monitoring and Fault Diagnosis of Electric Machines (Editor: Dr. Muhammad Irfan, Najran Univ., Saudi Arabia), IGI-Global, <u>USA</u>, pp.189- 221.ISBN13: 9781522569893; ISBN10: 1522569898; EISBN13: 9781522569909; DOI: 10.4018/978-1-5225-6989-3.
- **4. Khaira, A.,**Dwivedi, R.K., Srivastava, S. (2016). A State of the Art Review of Online Condition Monitoring Tools using NDT as Principal Testing Technique (Vol. 1). In Edited Book-Trends in Industrial and Mechanical Engineering(Editors: Dr. Ajay Verma, Dr. Vimlesh Kumar Soni, Dr. Pradeep Kumar Soni,), Excellent Publishing House, India, pp. 41-48.ISBN:978-93-84935-68-9.

PROFESSIONALDEVELOPMENT

Training Program/FDP Attended

- [1] Participated in 3-days "Faculty Development Program for Student Induction (FDP-SI)" during 9-11 January 2020 at IES College of Technology, Bhopal organized by All India Council for Technical Education(AICTE).
- [2] Participated in TEQIP sponsored "Summer Training Program on Advance Pedagogy and Digital Tool" organized by IIT Gandhinagar (G.J.) from 27th 31st May2019.
- [3] Participated in PanditMadan Mohan MalaviyaNational Mission on Teachers and Teaching (PMMMNMTT) sponsored "Short Term Training Program (STTP) on Industrial Training for Teachers" organized by NITTTR, Bhopal (M.P.) from 25th June 06th July2018.
- [4] Participated in TEQIP-KITE sponsored "Summer Training Program on Active Learning" organized by IIT Bombay (M.H.) from 11th 15th June2018.
- [5] Participated 2 Day FDP on "Total Quality Teaching" organized by SATI-Vidisha (M.P.) in collaboration with Titan's Learning Pvt. Ltd. from 16th 17th March2018.
- [6] Participated in Self-Sponsored "Short Term Training Programme (STTP) on Nano, Micro and Bulk Material Processing and Nanotechnology" held at GRIET, Hyderabad (T.S.) in collaboration with MANIT-Bhopal (M.P.) during 20th 26th March2017.
- [7] Participated in TEQIP sponsored "Short Term Training Programme (STTP) on Advanced Engineering Optimization Through Intelligent Techniques (AEOTIT)" held at the National Institute of Technology, Surat (G.J.) during 21st 25th March2016.
- [8] Participated in TEQIP sponsored "Short Term Training Programme (STTP) on Advanced Optimization and Applications" held at the National Institute of Technology, Raipur (C.G.) from 03rd 07th August2015.

Workshop Attended

- [1] Participated in TEQIP sponsored Workshop on the "3D Printing & Design "organized by IIT-Hyderabad from 28thNov 2020- 02nd Dec 2020 (Faculty training on future skills declared by NASSCOM & NPIU under for "Train the Trainer" scheme)
- [2] Participated in TEQIP sponsored Workshop on the "Procurement procedure of CRS Proposal "organized by SPIU-MP on 23rd Oct2020.
- [3] Participated in TEQIP sponsored Workshop on "Implementation of Finance/Accounting and ProcurementGuidelines in CRS Project" organized by SPIU-MP on 08th Feb2020.
- [4] Participated in TEQIP sponsored Workshop on "How to Write Collaborative Research" organized by SPIU-MP on 30th April 2019.
- [5] Participated in TEQIP sponsored Workshop on "Outcome Based Education "organized by SPIU-MP on 24th April2019.
- [6] Participated in TEQIP sponsored "Faculty Induction Workshop" organized by IIT Indore (M.P.) from 23rd 27th Jan 2018.
- [7] Participated in International Workshop on "Computational Methods in Vibration & Acoustics (IWCMVA-2015)" organized by the Department of Mechanical Engineering, IIT-Dhanbad (J.K.) during 16th 21st March2015.
- [8] Participated in National Workshop on "Application of MATLAB for Engineering (AMEC)" organized by the Department of Mechanical Engineering, PDPM-IIITDM-Jabalpur (M.P.) during 01st 05th Dec2014.

[9] Participated in National Workshop on "Significance of Rapid Prototyping & Rapid Tooling in Indian Industry" organized by the Department of Mechanical Engineering, MANIT-Bhopal (M.P.) during the 11th – 12th May2013.

MOOC (Massive Open Online Course)

- [1] Completed an online certification course on "Getting and Cleaning Data" developed by the **Johns Hopkins** University, USA, and certified by Coursera (2016) in an online format.
- [2] Completed an online certification course on "R Programming" developed by the **Johns Hopkins University**, <u>USA</u>, and certified by Coursera (2016) in an onlineformat.
- [3] Completed an online certification course on "The <u>Data Scientist's Toolbox" devel</u>oped by the **Johns Hopkins** University, USA, and certified by Coursera (2016) in an online format.

Swayam/NPTEL

[1] Participated in TEQIP sponsored course on "Digital Transformation in Teaching-Learning Process" Course offered by IIT-Bombay (M.H.)& powered by Swayamfrom 14th Feb – 06th March 2020 in an online format.

Webinars/Online STTP

- [1] Participated in a online STTP on *How to Use MCDM in Research* organized by the REST Society for Research International (RSRI), India conducted on August 31st–05thSep 2020 in an onlineformat.
- [2] Participated in a online STTP on *Data Analysis in Matlab Software* organized by the REST Society for Research International (RSRI), India conducted on August 17th 22nd 2020 in an onlineformat.
- [3] Participated in aonline STTP on *Application of Optimization Techniques in Mechanical Engineering Research AOTMER* organized by the Vitarka Projects, India conducted on August 7th 11th, 2020 in an onlineformat.
- [4] Participated in a webinar on *Atomic Force Microscopy in Nano-tribology: How AFM Can Be Used to Study Nanoscale Friction, Wear, and Lubrication* organized by the <u>Asylum Research</u>, USA conducted on June 24th, 2020 in an online format.
- [5] Participated in five 1-hour *Lubrication* webinars conducted by the <u>Precision Reliability Group</u> (collective of industry experts from the <u>USA</u>) conducted from April 29th- May 1st, 2020 in an online format.

Industrial Training/ Research Study

- [1] **Research Study** –Completed 8 weeks research study on review of the existing condition monitoring program of screw compressor & recommendation for its modification at **HEG Limited,Mandideep(M.P.)**
- [2] Major Training Completed 4 weeks of industrial training at JK Tyres& Industries Ltd., BanmoreTyre Plant, Gwalior(M.P.)
- [3] Minor Training-Completed 2 weeks vocational training at Diesel Locomotive Shed, Jhansi(U.P.)

SEMINAR/WORKSHOP/SHORT TERM TRAINING/CONFERENCE PROGRAMORGANIZED

- [1]. Organized **MHRD supported**three-day **National level** "*Smart India Hackathon-2020*" on 1st-3rd Aug 2020 at SATI-Vidisha (M.P.) as a Social Media Coordinator.
- [2]. Organized TEQIP-III sponsored five-day "Internal Hackathon-2020" on 15th-19th Jan 2020 at SATI-Vidisha (M.P.)
- [3]. Organized TEQIP-III sponsored aone-day National Conference on "Modern Tools in Engineering" on 5th April 2019 at SATI-Vidisha (M.P.) under the twinning arrangement with VNIT-Nagpur (M.H.).
- [4]. Organized TEQIP-III sponsored a two-day event on "Smart MP Hackathon-2019" on 14-15 March 2019 at SATI-Vidisha (MP)
- [5]. Organized TEQIP-III sponsored a two-day event on "Rural-Hackathon-2018" on 30th-31stOctober 2018 at SATI-Vidisha (M.P.).
- [6]. Organized TEQIP-III sponsored aone-day workshop on "Start-up Conclave-2018" on 22nd September 2018 at SATI-Vidisha (M.P.).

[7]. Organized TEQIP-III sponsored aone-day seminar on "Sustainable Energy: Challenges & Issues" on 3rd May 2018 on the occasion of International Energy Day 2018 at SATI-Vidisha (M.P.).

Expert/Expert Lecture/GuestTalk/Examiner/Jury/Advisor/Co-Advisor

- 1. Acted as an External Examiner for Practical Examination of M.Tech Dissertation, held on 16th Jan 2021 at IPS College of Technology and Management
- 2. Acted as a **Jury Member** in the TEQIP-III sponsored "**Internal Hackathon-2020**" at SATI, <u>Vidisha</u> (M.P.) from 15th to 19th Jan2020.
- 3. Acted as an Expert (Mechanical) in the TEQIP-III sponsored workshop on, "TEQIP-III: Assessment of availability, quality, and relevance of the courses on SWAYAM, MOOCS" at UEC, Ujjain on 17th 24th Dec 2019.(Significant OutreachActivity)
- **4.** Worked as an **Advisor** and provided feedback on various courses (which were needed to conduct Board of Studies) at Amity University, <u>Noida</u> (U.P.) (*Significant OutreachActivity*)
- **5.** Worked as a **Co-Advisor** in Activity Publication Committee of SamratUtsav -2018 (Annual Function)at SATI, Vidisha (M.P.)
- **6.** Delivered **Expert Lecture** on "**Research Dissemination & Intellectual Property**" during the one day workshop on "**Teaching-Learning Process and Curriculum Development**" at SATI, Vidisha (M.P.) on03/02/2018.
- 7. Delivered **Expert Lecture** on "**Engineering for the 21st Century**" during the one-day orientation program on "**Engineering: Scope & Challenges**" at SATI, Vidisha (M.P.) on15/02/2018.

KEYSKILLS

[1] Technical Skills	[1] Research Methodology: Taguchi DOE, Analysis of Variance (ANOVA),					
	Regression, Response surface methodology(RSM)					
	[2] Optimization: TLBO, JAYA, Desirability Function Approach (DFA), Grey					
	relational analysis (GRA), Genetic Algorithm, Gradient-based Algorithm, PSO					
	Optimization Algorithm, Harmony Search Algorithm					
	[3] Decision Making: AHP, PROMETHEE, GTMA, TOPSIS, Weighted Average,					
	VIKOR Method, ELECTRE Method, Fuzzy-MCDM					
	[4] Failure Analysis: FMECA, Matrix-FMEA, Weibull, FRAM					
	[5] Rapid prototyping machine andsoftware's					
[2] Computer Skills	[1] MATLAB and R programming.					
	[2] Good presentation and MS Officeskills.					
	[3] Familiar with the operating system Windows10.					
	[4] Hands-on knowledge of SAPsystem.					
[3] Writing Skills	[1] Good command over English Grammar, spelling, punctuation,etc.					
	[2] Ideas, knowledge, and research resources at hand for daily freshcontent.					

THESISWORK

- [1] **Doctorate** Condition Based Strategy Using Decision Making and Multiple NDT Techniques to Optimize Maintenance Attributes (Submission Date: 16thAug2017)
- [2] **Post Graduation** Analysis of Co-Relation Between Ultrasonic Testing and Micro Structural Examination of Francis Turbine Spiral Casing & Preparation of Condition Based MaintenancePlan
- [3] Graduation Automated Storage & RetrievalSystem

REVIEWER/EDITOR/ MEMBER OF EDITORIALBOARD

Member of Editorial Board

[1] Engineering and Applied Sciences Journal (Science Publishing Group, USA)

Journal Reviewing (Publon)

[1] Archives of Civil and Mechanical Engineering(Elsevier)

- [2] Journal of Rail and Rapid Transit(SAGE)
- [3] Journal of Loss Prevention in the Process Industries(Elsevier)
- [4] Education + Training(Emerald)

Conference Reviewing(Publon)

[1]. Asia Pacific Conference of the Prognostics and Health Management Society (2017, South Korea)

MEMBERSHIP OF PROFESSIONALBODIES

- [1] Member International Society on MCDM,USA
- [2] Associate Member- The Institute of Research Engineers and Doctors- IRED, <u>USA</u>(Membership No.AM10100058244)
- [3] Member International Association of Engineers (IAENG), <u>Hong Kong</u>(Member No.175815)
- [4] Life Member The Institution of Engineers (India), MECHANICAL ENGINEERING Division, India (Membership No. M-1720737)

EXTRACURRICULARACTIVITIES

[1] VolunteerWork-

- Worked as a Volunteer Beta Tester for Coursera, <u>USA</u> to provide feedback on a course before making it available for the generalpublic.
- Worked as a Volunteers AI Trainer for Iris AI, <u>USA</u> to help IRIS (an Artificially Intelligent Scientific Assistant) in understanding research papers.
- Worked as a Volunteer in technical session management in the International Conference on Trends in Industrial and Mechanical Engineering (4th-6th Feb 2016) organized by the department of the mech. Engg., MANIT, <u>Bhopal(M.P.)</u>
- Worked as a Volunteer in technical session management in the International Conference on Industrial, Mechanical, and Production Engineering: Advancements and Current Trends (27th-29thNov. 2014) organized by the department of the mech. Engg., MANIT, <u>Bhopal(M.P.)</u>

[2]Fund Raiser-Provided help to Manav Care organization, <u>India</u> in raising funds for the benefit of handicapped & underprivileged children's inIndia.

DECLARATION

I hereby declare that I have read carefully and understood the above information and that all the entries in this CV are true to the best of my knowledge and belief.

Place: Bhopal (M.P.)-India (Ashish Khaira)