

CURRICULUM VITAE



Ashish Khaira
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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.

PROFILE SUMMARY

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.

EDUCATIONAL BACKGROUND

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

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), India having validity from 30th Sep 2020 to 29th Sep 2025 and certificate number TINT/228478 with aggregate 84.6%.

EXPERIENCE

Period	Organization Name & Profile	Designation	Specific Duties & Key Accomplishments
20 th Oct 2021 to Till Date	Chegg India Pvt. Ltd.	Managed Network Expert	<ul style="list-style-type: none">To provide subject expertise and help to students in topics related to engineering.
28 June 2018 to Till Date	Content Creator (Freelance) Medium YouTube		<ul style="list-style-type: none">Content creation about blockchain: Testnet, Nodes, Whitelists, Apps, Events

<p>1st Jan 2018 to 30th Sep 2021 (3 Year, 9 Month)</p>	<p>Samrat Ashok Technological Institute (Govt. Aided College) Civil Lines, Vidisha (M.P.) 464001, INDIA</p> <p>SATI, Vidisha was established on 1 Nov 1960; presently it is NAAC Accredited, A Grant-in-Aid Fully Autonomous Engr. College</p>	<p>Assistant Professor (TEQIP Project Based) In Dept. of ME (NBA Accredited): MHRD Circular</p>	<p>Specific Duties-</p> <ul style="list-style-type: none"> • Research, Academic activities and Curriculum Development • Training and e-learning using audio, video and PPT while following pedagogy theories and ADDIE approach • Lab Establishment <p>Key Accomplishments –</p> <ul style="list-style-type: none"> • One student team under me and my co-faculty mentorship won hardware edition of National level SIH-2020 (Organized by MHRD India) • Organized training of "3D Printing & Design" for students (Mechanical, Civil, Electrical, Electronics) under Future Skill Training Scheme of NPIU-MHRD & NASSCOM. • As a member of Media Cell, I have reincarnated official LinkedIn account (4935 followers), created official Twitter handle (302 followers) and created official YouTube channel (300 subscribers) of SATI, Vidisha (M.P.)
<p>01stFEB 2009 to 21stJULY 2011 (2 Year, 5 Month, 21 Days)</p>	<p>Radha Raman Institute of Research & Technology, Bhopal (M.P.)</p> <p>RIRT is belonging to the Radha Raman Group of Institutes. It is one of the premier institutes in central India.</p>	<p>Lecturer (Mechanical Engineering Dept)</p>	<p>Specific Duties</p> <ul style="list-style-type: none"> • Completed teaching activities. • Served as a TG for various semesters. • Delegated in the procurement of book & lab requirement planning. <p>Key Accomplishments</p> <ul style="list-style-type: none"> • Delivered Improvement in the results of various semesters by teaching as well as suggestions. • Proposed books and lab equipment to improve the skill & knowledge level of students.
<p>PhD (Full Time) in Mechanical Engineering from 06th Aug 2014 to 30th September 2017 (3 years, 1 month, 24 Days): UGC Circular for Experience</p>			
<p>25thJUNE 2007 to 23rdFEB 2009 (01 Year, 7 Months)</p>	<p>M/s J K Tires & Industries Ltd. Banmore Tyre Plant, Gwalior (M.P.)</p> <p>J K Tires& Industries Ltd Is a QS9000, TS16949 & ISO: 14001 certified leading tire manufacturing company.</p>	<p>Joined as - GET Designation (After training period) – Engineer (Mechanical Maintenance Dept)</p>	<p>Specific Duties</p> <ul style="list-style-type: none"> • Delivered Improvement in equipment efficiency by using opportunity windows like material shortage & equipment breakdown for small maintenance activities. Resolved breakdown and troubleshooting through Why-2 Analysis <p>Key Accomplishments</p> <ul style="list-style-type: none"> • Handled the overall shift activities, preventive maintenance activities. • Implemented TPM techniques with coordination of Internal & other departments. • Delegated in the procurement of spare parts. • Why-Why analysis.

CURRENT ASSOCIATION WITH BLOCKCHAIN PROJECTS

1. OG in Maverick Protocol and Dradex
2. Content Creator in Skyweaver Creators Program
3. Content Contributor in Teleport Network
4. Article Writer with leading Medium Publishers like Block 6 and Crypto Stars.
5. KuCoin Affiliate in KuCoin User Acquisition Freelancer Program

KEY ACHIEVEMENTS (CONTENT CREATION)

1. Won *1st place in the medium blog content creator* category and among the 10 most popular content creators (by Twitter Handle) organized by the Maverick Protocol and Project Galaxy HQ ([Medium](#)/[Twitter](#))
2. Won *1st place in the YouTube content creator* category organized by the Maverick Protocol ([Medium](#))
3. Selected among the *top 5 content creator* in Caduceus Community Content Competition organized by Caduceus Blockchain ([Medium](#))
4. Selected among the *top 10 content creators* in the content creation contest organized by MicroChains ([Twitter](#))
5. Selected among the *top 10 meme creators* in the gDEX Meme Competition ([Twitter](#))
6. Won *1st place in the Content Creator Bounty Program* organized by Voltage Finance ([Twitter](#))
7. Won *1st place in the OctoMemes Contest* organized by the OctoGamex project ([Discord](#))
8. I have received *appreciation* from Various Crypto Projects ([Suberra Protocol](#))

FELLOWSHIPS /AWARDS

- [1]Fellowship for Doctoral Programs awarded by Ministry of Human Resource Development, India in the year 2014 for qualifying the doctorate registration.
- [2]Fellowship for master's Programs awarded by Ministry of Human Resource Development, India in the year 2011-2013 for post-graduation.
- [3]Degree with Outstanding Performance in Master of Technology awarded by Maulana Azad 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) -III year.
- [6]Certificate of appreciation awarded by Manav Care Organization in the year 2001 for volunteer work in raising funds to benefit for handicapped & underprivileged children.
- [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 Gayatri Parivar Organization in the year 2001 for better performance in the Indian Cultural Knowledge Examination.
- [10] Certificate of appreciation awarded by All World Gayatri Parivar Organization in the year 2000 for securing the second rank in the city {Bhopal (M.P.)} in the Indian Cultural Knowledge Examination.
- [11] Certificate of appreciation awarded by All World Gayatri Parivar Organization in the year 1999 for securing the first rank in school {NPHSS, Bhopal (M.P.)} in the Indian Cultural Knowledge Examination.

E-LEARNING COURSES

- [1]. **Developed** a E-learning course on “[3D Printing Using Ultimaker Cura](#)” for [Scholar Sight Learnings](#) . Full course available in [UDEMY](#) and samples are available on [YouTube](#)

RESEARCH/CONSULTANCY PROJECTS

- [1]. **Research Project (As a Principal Investigator: 1-5727981511)** entitled, “*Development of Intelligent Structures using Concept of Embedded Structural Health Monitoring System*” under “TEQIP Collaborative Research Scheme (NPIU-MHRD)” from 18th June 2019 to 27th Oct 2021; Co-PIs: Dr. Ravi K. Dwivedi (MANIT-Bhopal), Prof. Sanjay Jain (SATI-Vidisha); **Project Budget:** Rs. 12.70 Lac.

INTELLECTUAL PROPERTY

International Patent

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

PUBLICATIONS

[I]. Research Papers- [Web of Sci](#) / [Scopus](#) / [ORCID](#) / [Google Scholar](#)

(A). International

1. **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. e-ISSN: 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)**
9. **Khaira, A.**, Suhane, A., & Srivastava, S. (2015). Comparative Analysis of Different Steel Grades for Francis Turbine Spiral Casing & Modification in Maintenance Strategy for Cavitation's Prevention. *Chemical Science Review and Letters* (India), 13 (4), 179-187. ISSN:2278-6783 (**Chemical Abstract Service**)
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). Development of an 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 *1st National 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.

3. **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). Edited Book

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

(C). Book Chapter

1. Gaur J., Jain S., **Khaira A.,** (2019). A Review of Power Transmission 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. Neeraj Sen, Dr. Ashish Khaira), 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, USA, 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, USA, 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.

PROFESSIONAL DEVELOPMENT

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 May 2019.
- [3] Participated in Pandit Madan Mohan Malviya National Mission on Teachers and Teaching (PMMMNTT) sponsored “Short Term Training Program (STTP) on Industrial Training for Teachers” organized by NITTTR, Bhopal (M.P.) from 25th June – 06th July 2018.
- [4] Participated in TEQIP-KITE sponsored “Summer Training Program on Active Learning” organized by IIT Bombay (M.H.) from 11th – 15th June 2018.
- [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 March 2018.
- [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 March 2017.

- [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 March 2016.
- [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 August 2015.

Workshop Attended

- [1] Participated in TEQIP sponsored Workshop on the “3D Printing & Design “organized by IIT-Hyderabad from 28th Nov 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 Oct 2020.
- [3] Participated in TEQIP sponsored Workshop on “Implementation of Finance/Accounting and Procurement Guidelines in CRS Project” organized by SPIU-MP on 08th Feb 2020.
- [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 April 2019.
- [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 (IWCMA- 2015)” organized by the Department of Mechanical Engineering, IIT-Dhanbad (J.K.) during 16th – 21st March 2015.
- [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 Dec 2014.
- [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 May 2013.

MOOC (Massive Open Online Course)

- [1] Completed an online certification course on “[Instructional Design for Learning and Development by John Hinchliffe](#)” and certified by Udemy (2021) in an online format.
- [2] 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.
- [3] Completed an online certification course on “[R Programming](#)” developed by the **Johns Hopkins University, USA**, and certified by Coursera (2016) in an online format.
- [4] Completed an online certification course on “[The Data Scientist’s Toolbox](#)” developed 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 Swayam from 14th Feb – 06th March 2020 in an online format.

Webinars/Online STTP

- [1] Participated in an online STTP on *How to Use MCDM in Research* organized by the REST Society for Research International (RSRI), India conducted on August 31st–05th Sep 2020 in an online format.
- [2] Participated in an 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 online format.
- [3] Participated in online STTP on *Application of Optimization Techniques in Mechanical Engineering Research - AOTMER* organized by the Vitara Projects, India conducted on August 7th – 11th, 2020 in an online format.
- [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 Asylum USA conducted on June 24th 2020, in an online format.
- [5] Participated in five 1-hour *Lubrication* webinars conducted by the [Precision Reliability Group](#) (collective of industry experts from the **USA**) 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 Tires& Industries Ltd., Banmore Tyre 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 PROGRAMS ORGANIZED

1. Organized two-day **International Conference** on “Advances in Materials, Mechanics, Mechatronics and Manufacturing” on 06-07 March 2021 as a **Conference Co-Chair** with proceeding published in IOP Conference Series: Materials Science and Engineering (**Web of Science**)
2. 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.
3. Organized TEQIP-III sponsored five-day “Internal Hackathon-2020” on 15th-19th Jan 2020 at SATI-Vidisha (M.P.)
4. Organized TEQIP-III sponsored a one-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.).
5. Organized TEQIP-III sponsored a two-day event on “Smart MP Hackathon-2019” on 14-15 March 2019 at SATI-Vidisha (M.P.).
6. Organized TEQIP-III sponsored a two-day event on “Rural-Hackathon-2018” on 30th-31st October 2018 at SATI-Vidisha (M.P.).
7. Organized TEQIP-III sponsored a one-day workshop on “Start-up Conclave-2018” on 22nd September 2018 at SATI-Vidisha (M.P.).
8. Organized TEQIP-III sponsored a one-day seminar on “Sustainable Energy: Challenges & Issues” on 3rd May 2018 on International Energy Day 2018 at SATI-Vidisha (M.P.).

Expert/Expert Lecture/Guest Talk/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, Vidisha (M.P.) from 15th to 19th Jan 2020.
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 Outreach Activity*)
4. Worked as an **Advisor** and provided feedback on various courses (which were needed to conduct Board of Studies) at Amity University, Noida (U.P.) (*Significant Outreach Activity*)
5. Worked as a **Co-Advisor** in Activity Publication Committee of Samrat Utsav -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.) on 03/02/2018.
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.) on 15/02/2018.

THESIS WORK

- [1] **Doctorate** - Condition Based Strategy Using Decision Making and Multiple NDT Techniques to Optimize Maintenance Attributes (Submission Date: 16th Aug 2017)
- [2] **Post-Graduation**- Analysis of Co-Relation Between Ultrasonic Testing and Micro Structural Examination of Francis Turbine Spiral Casing & Preparation of Condition Based Maintenance Plan
- [3] **Graduation** - Automated Storage & Retrieval System

KEY SKILLS

[1] Technical Skills	<p>[1] Research Methodology: Taguchi DOE, Analysis of Variance (ANOVA), Regression, Response surface methodology (RSM)</p> <p>[2] Optimization: TLBO, JAYA, Desirability Function Approach (DFA), Grey relational analysis (GRA), Genetic Algorithm, Gradient-based Algorithm, PSO Optimization Algorithm, Harmony Search Algorithm</p> <p>[3] Decision Making: AHP, PROMETHEE, GTMA, TOPSIS, Weighted Average, VIKOR Method, ELECTRE Method, Fuzzy-MCDM</p> <p>[4] Failure Analysis: UT-NDT, FMECA, Matrix-FMEA, Weibull, FRAM</p> <p>[5] Advanced Manufacturing: Rapid prototyping machine and software's</p>
[2] Computer Skills	<p>[1] MATLAB and R programming.</p> <p>[2] MOODLE (Open-source learning management system)</p> <p>[3] Articulate Storyline 3/360, Adobe Illustrator, DaVinci Resolve, CANVA</p> <p>[4] Good presentation and MS Office skills.</p> <p>[5] Familiar with the operating system Windows10.</p>
[3] Writing Skills	<p>[1] Good command over English Grammar, spelling, punctuation, etc.</p> <p>[2] Ideas, knowledge, and research resources at hand for daily fresh content.</p>

REVIEWER/EDITOR/ MEMBER OF EDITORIAL BOARD

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 PROFESSIONAL BODIES

- [1] Life Fellow - Indian Social Science Academy, [India](#) (Membership card no. LF/2359/635/2021)
- [2] Life Member - The Institution of Engineers (India), Mechanical Engineering Division, India (Membership No. M-1720737)
- [3] Member - International Society on MCDM, [USA](#)
- [4] Associate Member- The Institute of Research Engineers and Doctors- IRED, [USA](#) (Membership No. AM10100058244)
- [5] Member - International Association of Engineers (IAENG), [Hong Kong](#) (Member No.175815)

EXTRACURRICULAR ACTIVITIES

[1] Volunteer Work-

- Worked as a Volunteer Beta Tester for Coursera, [USA](#) to provide feedback on a course before making it available for the public.
- Worked as a Volunteers AI Trainer for Iris AI, [USA](#) 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. Engr., MANIT, [Bhopal](#) (M.P.)

- 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. Engr., MANIT, Bhopal (M.P.)

[2]Fund Raiser-Provided help to Manav Care organization, India in raising funds for the benefit of handicapped & underprivileged children in India.

PERSONAL DETAILS

- Name: Dr. Ashish Khaira
- Mob No - +91-9981038898
- E-mail ID - ashish_2285@yahoo.co.in, ashish.2285@gmail.com
- DOB: 22nd May 1985
- Marital Status: Married

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.



(Ashish Khaira)

Place: Bhopal (M.P.)-India