

CURRICULUM VITAE



Dr. IMRAN AHMAD KHAN

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JOB OBJECTIVE

Seeing the challenging position as in the technical skill, I can prove myself. To be a part of an organization that gives an ample opportunity for the growth of and self-development. An organization that will benefit from skill sets. It gives me strong technical and management skill and interpersonal skill.

STRENGTHS

My strength includes the Logical and Analytical thinking and also the ability to grasp new thing quickly and write easy.

TEACHING SKILL (UG AND PG)

- COMPUTER AIDED MECHANICAL DESIGN (PG)
- FINITE ELEMENT ANALYSIS(PG)
- COMPUTER AIDED DESIGN (UG)
- VIBRATION (UG)
- THEORY OF MACHINE (UG)
- AUTOMOBILE ENGINEERING (UG)

- ENGINEERING DRAWING (UG)
- DESIGN OF MACHINE ELEMENTS (UG)

EXPERIENCE : -(17 YEARS)

- Working in Priyadarshani College of Engineering, Nagpur on Regular Post of Associate Professor in Mechanical Engineering Department. **Duration:** From 25th May 2011 to till date.
- Worked in G.H.Raisoni College of Engineering, Nagpur on Regular Post of Assistant Professor in Mechanical Engineering Department. **Duration:** From 17th Aug 2006 to 24th May 2011.
- Worked in SMT. Radhikatai Pandav College of Engineering, Nagpur as a Lecturer in Mechanical Engineering Department. **Duration:** From 1st July 2002 to 16th Aug 2006.
- Worked in Late Vasantdada Polytechnic, New Nandanwan, Nagpur as a Lecturer in Mechanical Engineering Department. **Duration:** From 1st September 1999 to 30th June 2002.

TECHNICAL QUALIFICATION:-

PhD in subject of Mechanical Engineering of the Faculty of Engineering and Technology.

PhD is awarded as per the notification of RTMNU/Ph.D. (Cell)/8/374 Dated: 20/08/2015 from RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY NAGPUR.

Topic of Research: Effect of Uncertain Parameters on Vibrational Characteristics and Behaviour of Structures.

Name of Supervisor: Dr. G.K. Awari (Principal TGPCOE Nagpur)

Research Center: Priyadarshini College of Engineering and Architecture, Nagpur.

(Under RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY)

Ph.D Registration No. : No.Ph.D (Cell)/ RRC/197 B/225 Date: 13/01/2010

M-Tech. (Mechanical Engineering Design)

Percentage: **78.12%** Year of Passing: Winter 2005.

Priyadarshini College of Engineering and Architecture, Nagpur, Nagpur University.

Bachelor of Engineering (Mechanical)

Percentage: **72.66%** Year of Passing: August 1999.

K. D. K. College of Engineering, Nagpur, Nagpur University.

HSSC:

Secured **71.83%** M.S. Board.

SSC:

Secured **70.00%** M.S. Board.

Student Feedback: - Average 98%

University Result: - Approximately 90%

M.TECH THESIS GUIDED:-(06Nos)

1. "Analysis of Dynamic

forces due to heavy linkages mounted on a vehicle in

motion using CAE software", Arvind B. Totey -2008-2009 .

2. "Design and analysis of Milling Machine fixture using CAE software",

Vaibhav Haridas Bankar-2009-2010.

3. "Design and analysis of Mercerization Machine shaft",

Jayashri Haridasji Mokade-2009-2010.

4. "Design and Failure analysis of Locomotive Suspension Coil Spring Using FEA",

Manish M. Dakhore-2010-2011.

5. "Computer Aided Design, Analysis and Manufacturing of Turbine Blade",

Suhas V. Kale- 2012-2013.

6. "Biomechanical Analysis of Human Femur",

Miss. Roshni A Hinge-2015-2016.

PORTFOLIO HANDLED:-

- Officer In charge (OIC) of RTMNU Winter-2015 Exam
- Co- Coordinator of First Year
- Coordinator of ENGINEERING GRAPHICS Subject
- Coordinator of Management Admission committee
- Coordinator of student forum MESCo
- Coordinator of Departmental Library
- Co -coordinator Academic monitoring
- In charge of CAD lab
- In charge of Final year Project of student
- In charge Result Analysis
- In charge of ERP time Table
- In charge of CAT Exam
- Member of Moderation committee RTMNU
- Member of Examination committee RTMNU
- Member -Framing the scheme and syllabus for Autonomy

- Member of internal marks compilation committee
- Member of Department R & D portfolio
- Member of ARC Committee
- Member of Time Table Portfolio
- Controller of MSCIT Exam and M.S.B.T.E. Exam
- Programme Coordinator of YCMOU
- Worked as Class Teacher And Teacher Guardian.
- Worked as RBTE Representative in Monitoring Committee.
- University paper setter

ACTIVITIES IN WHICH ACTIVELY INVOLVED IN CULTURAL PROGRAMS, EXTRA CURRICULAR ACTIVITIES

etc.:-

- Organized Industrial visits
- Secretary of Unnati- 15
- Joint Secretary of Unnati- 14
- Joint Secretary Horizon-13
- Event Coordinator (Momentum Horizon-13)
- Coordinator for Venue preparation Horizon-13
- Member of Discipline Committee Horizon-13
- In charge of Venue preparation On occasion of Chairman Sir Felicitation and IT Building Inauguration function dated 8/04/2013
- Organized Paper Presentation competition
- Organized Engineers Day
- Organized Poster competition
- Organized Teachers Day Celebration

OVERVIEW OF COURSE:-

ANSYS 14.5

UNIGRAPHICE –NX8

PRO-E 2001

PRO-E WILDFIRE -2

AutoCAD 2011

MEMBERSHIP OF SOCIETY:-

- **M.I.S.T.E. (Member of Indian Society for Technical Education)**

Indian Society for Technical Education

IIT (D) CAMPUS, Katwaria Sarai

Shaheed Jeet Singh Marg, New Delhi- 110016

Life member of the society, an organization for promoting the quality and standards in technical education, 2007

Membership Number: LM 54460

Year: 2007

- **International Association of Engineers (IAENG)**

Member Number: 12786

PROJECT WORK:-

TITLE: Effect of Uncertain Parameters on Vibrational Characteristics and Behaviour of Structures

(This Project work is going on for the degree of PhD)

ABSTRACT: This work is concerned with the prediction of the vibration response of mechanical structures with uncertain parameters, because structures which are complex in geometry and may possess variability in their material or geometric properties, as well as variation arising from the assembly and manufacturing processes and some other parameters. Small variations can have a significant effect on a dynamic response of a structure, and the effect of structural uncertainties increases as the frequency increases.

TITLE: Application of Optimization Algorithm for the Optimal Synthesis of a Planar Mechanism for Path Generation Problems (A Computer Approach). (This Project is submitted for the award of degree of Master of Technology in Mechanical Engineering Design)

ABSTRACT: The project is based on optimal dimensional synthesis of planar mechanism. In this unconstrained nonlinear least square technique is used to determine the optimum dimensions of planar linkage whose coupler link passing as closely as possible to a given discrete set of points. In this computer program is developed to synthesis mechanism with minimum structural error for any given industrial copular curve.

TITLE: Design and Fabrication of Computer Page Punching Mechanism.

(Project submitted for B.E.-Final)

GUEST LECTURE:-

- Delivered Gust Lecture on Theory of Machine at Yeshwantrao Chavan College of Engineering, Nagpur on 22nd Oct 2013.
- Delivered Gust Lecture on Engineering Graphics -I at Govindrao Wanjari College of Engineering and Technology on 26th Oct 2013

- Delivered Expert Lecture on Research Methodology at Yeshwantrao Chavan College of Engineering, Nagpur on 19th June 2014.

SESSION CHAIR:-

- Session Chair in the SPANDAN 2013 for Mechanical Engineering Design Subject, A National Conference on advances in Engineering, Technology and Applied Sciences at Yeshwantrao Chavan College of Engineering, Nagpur.
- Session Chair in the SPANDAN 2014 for Computer Technology of Subject Mechanical engineering, A National Conference on advances in Engineering, Technology and Applied Sciences at Yeshwantrao Chavan College of Engineering, Nagpur
- Session Chair in the SHODH- 2015 for Electronics and Telecommunication Engineering, A National level project competition at Priyadarshini College of Engineering, Nagpur.

REVIEWER OF BOOK:-

- Book on “Advanced Mechanics of Solids” of Tata McGraw Hill Education publication was reviewed.

RESEARCH PROMOTION SCHEME (RPS):-

- Research Promotion Scheme (RPS) is sanction for the Project on “Effect of Uncertain Parameter on Vibrational Characteristics and Behavior of Structures”.

The Amount sanctioned for the said project is Rs. 10, 50,000/-

PAPER PUBLICATION: (International Journal: 08)

- Paper was published on “AUTOMATION AND ROBOTICS IN CONSTRUCTION: OPPORTUNITIES AND CHALLENGES”, International Journal of Advances in Management, Technology and Engineering Sciences, Vol. I, Issue 7(VI), April 2012.
- Paper was published on “INVESTIGATION OF DYNAMIC CHARACTERISTICS OF ROTOR SYSTEM FOUNDATION FRAME, SUBJECTED TO DIFFERENT LOADING CONDITIONS & HARMONIC EXCITATION”, International Journal of Mechanical Engineering Research (IJMER) , pp. 227-237, Volume 3 Number 1 spl, March (2013).
- Paper was published on “THE ANALYSIS OF VIBRATIONAL RESPONSE OF STRUCTURES WITH UNCERTAIN PARAMETERS”, International Journal of Engineering Sciences & Emerging Technologies(IJESET),pp86-93 Volume 6, Issue 1, August 2013. (IMPACT FACTOR 0.5)
- Paper was published on “DYNAMIC ANALYSIS OF NATURAL FREQUENCY AND MODE SHAPE OF CANTILEVER AND FREE-FREE CONDITION PLATE BY CONSIDERING UNCERTAIN PARAMETERS”, International Journal Of Research In Aeronautical And Mechanical Engineering, Vol.2 Issue.2,.Pp: 1-10,February 2014.(IMPACT FACTOR 0.875)
- Paper was published on, “Analysis of Natural Frequency and Mode Shape of All Edge Fixed Condition Plate with Uncertain Parameters”, International Journal of Innovative Research in Science, Engineering and Technology, Vol. 3, Issue 2,pp-9277-9284,February 2014. (IMPACT FACTOR 1.672)
- Paper was published on “REVIEW ON DYNAMIC RESPONSES OF VIBRATING SYSTEMS WITH UNCERTAIN PARAMETERS”, International Journal of Engineering Sciences & Research Technology, Vol-3, Issue-2, February 2014, (IMPACT FACTOR: 1.852).
- Paper was published on, “Predicting the Dynamic Characteristics of Vibrating Structure with Uncertain Parameters”, International Journal of Automotive & Mechanical Engineering (IJAME), University Malaysia Pahang Volume 10, pp. 1877-1890, July-December 2014.
- Paper was published on ,“ Harmonic Analysis of Square Plate with and Without Uncertain Parameters”, International Journal on Recent and Innovation Trends in Computing and Communication (IJRITCC), Volume: 3 Issue: 2, pp.13-46, February 2015.

PAPER PRESENTATION: - (International Paper: 09 and National Paper: 03)

INTERNATIONAL CONFERENCE PAPER (09):-

- An International level paper presentation on “ANALYSIS OF DYNAMIC FORCES DUE TO HEAVY MECHANISMS MOUNTED ON A VEHICLE IN MOTION BY FEM”, at G.H. Rasoni College of Engineering, Nagpur, IECTET 2009 was held on 16th to 18th Dec 2009

Paper is sited <http://www.allconferences.com/conferences/2009/>

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- An International level paper presentation on “DESIGN AND ANALYSIS OF MILLING FIXTURE FOR STEERING KNUCKLE ARM OF TRACTOR” at V.V.P. Engineering College, Rajkot, Gujrat. ICISSET-2011 which was held on 8th and 9th April 2011. This paper has been selected as a best paper for the conference session. Guest
- An International level paper presentation on “DESIGN AND FAILURE ANALYSIS OF LOCOMOTIVE SUSPENSION COIL SPRING USING FEA” at E.G.S.PILLAY Engineering College, NAGAPATTINAM. ICAET-2011 which was held on 27th and 28th May 2011.
- An International level paper presentation on “THE OPTIMAL SYNTHESIS OF A PLANAR MECHANISM FOR PATH GENERATION PROBLEMS” at Amrutvahini College of Engineering, Sangamner, Maharashtra. ICAME-2012 which was held on March 12-14, 2012.
- An International level paper presentation on “FEA ANALYSIS OF HORSE BIT DURING LOADING CONDITION” at Amrutvahini College of Engineering, Sangamner, Maharashtra. ICAME-2012 which was held on March 12-14, 2012.
- An International level paper presentation on “REVIEW ON COMPUTER AIDED DESIGN, ANALYSIS AND MANUFACTURING OF TURBINE BLADE” at Bapurao Deshmukh College of Engg, Sevagram, Wardha MS. _EFITRA2012 which was held on 17-18 March 2012.
- An International level paper presentation on “AUTOMATION AND ROBOTICS IN COUNSTRUCTION: OPPORTUNITIES AND CHALLENGES” at Central India College of Business Management & Studies, Nagpur, MS. ICMETSS 2012 which was held on 28th & 29th April 2012.

- Paper was published on, "MODAL ANALYSIS OF SIMPLY SUPPORTED PLATE WITH UNCERTAIN PARAMETERS", International Conference 'Manthan2014', at SSPACE, Wardha, From 21st-22nd Feb2014.
- Paper was published on, "HARMONIC ANALYSIS OF SQUARE PLATE WITH AND WITHOUT UNCERTAIN PARAMETERS", in International Conference on Advances in Engineering & Technology (ICAET-2015), at Anjuman College of Engineering and Technology, Nagpur, on February 25th and 26th, 2015.

NATIONAL CONFERENCE PAPER (03):-

- A National level paper presentation on "DESIGN AND STRUCTURAL ANALYSIS OF DRAWING TOOL FOR CUP FORMATION" at PRIYADARSHINI INSTITUTE OF ENGG. & TECHNOLOGY, NAGPUR. JIGYASA-2008 NATIONAL LEVEL STUDENT CONVENTION 28th, 29th Feb. & 1st March 2008.
- A National level paper presentation on "INVESTIGATION OF DYNAMIC CHARACTERISTICS OF ROTOR SYSTEM FOUNDATION FRAME, SUBJECTED TO DIFFERENT LOADING CONDITIONS & HARMONIC EXCITATION" at S.B Jain Institute of Technology ,Management and Research, Nagpur, NCIPET-2013, National Conference on Innovative Paradigms In Engineering Technology , 17th Feb. 2013.
- A National level paper presentation on, "VIBRATION ANALYSIS OF SQUARE PLATE WITH UNCERTAIN PARAMETERS", presented in National Conference on, RECENT INNOVATIONS IN MECHANICAL ENGINEERING (RIME-2014) ,at MVSR, Engineering College, Hyderabad ,on November 21st and 22nd, 2014

TRAINING PROGRAMME (13):-

- Attended the short term training programme on "MECHANICAL ASPECTS OF LATEST TRENDS IN POWER GENERATION" conducted by Smt. Radhikatai Pandav College of Engineering Nagpur.

From: 07th April to 17th April 2005

- Attended “FACULTY DEVELOPMENT PROGRAMME” at GHRCE Nagpur conducted by Vidula consultancy Kolkata.

From: 16th Nov to 18th Nov 2006

- Organized “TWO DAY WORKSHOP ON UNIGRAPHICS NX4 SOFTWARE” at G.H.R.C.E.Nagpur.

From: 12th Dec to 13th Dec 2006

- Attended One Day workshop on “CURRICULUM DEVELOPMENT IN PREPARATION/ REVISION OF SYLLABUS FOR ENGINEERING GRAPHICS I AND II OF B.E. FIRST YEAR” conducted by Dr. Babasaheb Ambedkar College of Engineering and Research, Nagpur.

From: 21st March 2012

- Attended One Day workshop on “LATEX SOFTWARE” at Tulsiram Gaikwad Patil College of Engineering and Technology Nagpur.

From: 20th October 2012

- Attended Two Day ISTE workshop on “AAKASH TAB” at Priyadarshini College of Engineering Nagpur.

From: 10 and 11 November 2012

- Attended Three Day workshop on Engineering Graphics II using AutoCAD at Yeshwantrao Chavan College of Engineering, Nagpur.

From: 2nd to 4th January 2013

- Attended Two Day workshop on ISTE Two day workshop on Research Methods in Education Technology at Priyadarshini College of Engineering, Nagpur.

From: 2nd and 9th February 2013

- Attended one day workshop on “How to become an Ideal Teacher” at Priyadarshini College of Engineering, Nagpur.

From: 19th October 2013

- Attended One week STTP on “Research Methodology Including mathematical modeling computer application and simulation” at Priyadarshini College of Engineering, Nagpur.

From: 26th to 31st December 2013.

- Attended One week STTP on “PTC Creo CAD modeling software”, at Priyadarshini College of Engineering, Nagpur.
From: 8th to 13th December 2014.
- Attended One week STTP on “Recent Trends in HVAC and R” at Priyadarshini College of Engineering, Nagpur.
From: 2nd to 7th Feb 2015.
- Attended Two day STTP on “Program on Mathematical Modeling Techniques”, at Priyadarshini College of Engineering, Nagpur.
From: 5th to 6th May 2015.

PERSONAL PROFILE:-

Name : Dr. Imran Ahemad Khan

Father's Name : Sheikh Aziz

Date of Birth : 20-04 -1978

Caste/Category : Muslim (General)

Marital Status : Married

Address for Correspondence : Dr. I.A .Khan
61 Thakur Plot, Bidipeth,
Bada Tajbagh, Nagpur 440024.

Passport No. : F 0944316

MOBILE: 9921256290

I hereby declared that the above furnished information is true and correct to the best of my knowledge.

DATE:

PLACE: NAGPUR

Dr. IMRAN AHMAD KHAN