

Faculty Profile



- **Faculty Name:- Prof. AITAVADE EKNATH NIVRUTTI**
- **Designation:- Asso. Professor**
- **Department:- Mechanical**
- **Mobile No. 8208801414, 9922848887**
- **Email Id- enaait@yahoo.co.in; ena@amgoi.edu.in**
- **Educational Qualification:**

Sr.No	Degree	University	% Marks	Class
1	PhD.	Visvesvaraya Technological University, Belgaum	Research Area TRIBOLOGY Research Work In Progress.(Pursuing)	
2	M.E. Mechanical (Design Engg)	Shivaji University Kolhapur	61.61%	1st Class
3	B.E. Mechanical	Shivaji University Kolhapur	67.88%	1st Class with Distinction
4	D.M.E.	B.T.E. Mumbai	75.50%	1st Class with Distinction
5	S.S.C.	Pune Div. Board	80.85%	1st Class with Distinction

- **Professional experience:-** Total experience in years: 27 Years.

Teaching: - 25 Y 5 M

Industrial:- 1 Y 7M

Research: -6 Y

Sr.No.	Organization	Post	Period
1	A.M.G.O.I. Vathar.	Asso. Professor	6 Y 4 M
2	T K I E T Warananagar	Asst. Professor	16 Y 3 M
3	DKTE's T.E.I. Ichalkaranji	Lecturer	2 YEARS
4	C.O.E. Malegaon (Bk.)	Lecturer	7.5 M
5	Thermax Ltd Chinchwad, Pune.	Engineer Trainee	1 Y 7 M

➤ **Subjects Taught:-**

Sr.No.	Under Graduate	Post Graduate
1.	Engineering Graphics	Advanced Design Engineering
2.	Basic Mechanical Engineering	Computer Aided Analysis Lab
3.	Machine Drawing	Tribology
4.	Analysis of Mech.Elements	Design For Manufacture And Assembly
5.	Computer Aided Drafting	Advanced Engineering Materials
6.	Theory of Machines-II	Product Design & Development
7.	Machine Design- I	Seminar
8.	Metrology & Quality Control	Dissertation
9.	Machine Design II	Communication Skills
10.	I.C. Engines	Experimental stress Analysis
11.	Testing & Measurement	
12.	Industrial Product Design	
13.	Power Engineering	
14.	Interpersonal Skills and personality development	
15.	Seminar	
16.	Project	
17.	Professional Ethics	

- **Project Work at U.G.:-** Variable Pitch Fan Model
- **Project Work at P.G.:-** Design of Variable Pitch Fan and its Pitch Control System for Optimum Radiator Performance
- **Certified Courses:-** NA
- **Research Area of Interest:-** Biofuels, Tribology, Materials, Nanotechnology, IC Engines
- **Paper Presented and published:-**

Publications in Journals:-

1. International Journal of Advanced Biotechnology and Research ISSN 0976-2612, **IJABR**, Vol 2, Issue 2, June-2011, pp 278-285 **“Finite Element Analysis of Modified Hip Prosthesis”**
2. International Journal of Scientific & Engineering Research Volume 3, Issue 7, July 2012 1 ISSN 2229 – 5518 **IJSER** © 2012 <http://www.ijser.org> **“Photoelastic stress Analysis & Finite Element Analysis of an Internal Combustion Engine Piston”**
3. International Journal Engineering Science and Technology(**IJEST**) Volume 4, Issue12, December 2012 , ISSN 0975-5462, © 2012 **“Analysis Of Composite Leaf Spring by Using Analytical and FEA”**
4. International Journal of Scientific & Engineering Research Volume 4, Issue3, March 2013, ISSN 2229 – 5518 **IJSER** © 2013 <http://www.ijser.org> **“Kinematic Design of a Variable Pitch Fan Actuator Mechanism for IC Engine”**
5. IOSR Journal of Mechanical and Civil Engineering (**IOSR JMCE**) PP 19-24 ISSN: 2278-1684 **“An overview of Peristaltic Pump Suitable for Handling of Various Slurries and Liquids.”2012-13**
6. International Journal for Scientific Research & Development | Vol. 2, Issue 06, Aug 2014 | PP 569-571 ISSN (online): 2321-0613 **“Spring Loaded Torque Limiter”**

7. International Journal for Scientific Research & Development| Vol. 2, Issue 07, Sept 2014 | PP 348-351 **ISSN (online): 2321-0613 “Spring Loaded Torque Limiter”**
8. International Journal of Advanced Engineering Technology| Vol. 4, Issue 04, Oct-Dec- 2013, | PP 27-30 **ISSN 0976-3945 “Static analysis of a roller of gravity roller Conveyor for structural strength & weight Optimization”**
9. Global J. of Mech., Engg. & Comp. Sciences| Vol. 3, Issue 04, 2013, | PP 93-98 **ISSN 2249-2658 (Online): 2249-264X (Print) “ Transient Analysis of Roller Conveyor for Weight Optimization”**
10. International Journal for Scientific Research & Development| Vol. 2, Issue 07, 2014 /PP 348-351 **ISSN (online): 2321-0613 “Modification of Mono-Tube Shock Absorber”**
11. International Engineering Research Journal Vol. 2, Issue 3, 2016, |PP 901-909 **ISSN 2395-1621 “Novel Continuous Variable Valve Lift (CVVL) “Mechanisms for Throttle Free Load Control of SI Engine”**
12. International Journal of Innovations in Engineering Research and Technology, volume 3 issue 5, 2016 |PP. 1-15 **ISSN : 2394-3696, “Analysis and Experimental Validation for Behavior (Compression, Tensile, Fatigue etc.)Of Composite Material Helical Compressive Spring Used for Four Wheeler Suspension System.”**
13. International Journal of Advances Research in Science and Engineering, Volume No.07, Issue No.03, March 2018 |PP. 148-157 **ISSN: 2319-8354, “Analysis and Design Optimization of 200mm-150 Class Globe Valve Body by Using FEA and Validation by Using Experimental Stress Analysis Method - A Review”**
14. International Journal Of Scientific & Engineering Research, Volume 9, Issue 6, June 2018 |PP. 1-9 **ISSN 2229-5518, “Analysis And Design Optimization Of 200mm-150 Class Globe Valve Body By Using FEA And Validation By Using Experimental Stress Analysis Method”**
15. International Journal of Scientific & Engineering Research Volume 10, Issue 4, April-2019 |PP. 1337-1346 **ISSN 2229-5518, “Analysis and Experimental Validation For Fatigue Behavior of Composite Material Helical Compressive Spring used for Four Wheeler Suspension System”**
16. International Journal of Engineering Development and Research, Volume.7, Issue 4, October 2019 |PP. 276-280 **ISSN:2321-9939, “Finite element and experimental analysis of folding bicycle frame”**
17. International Research Journal of Engineering and Technology, Volume: 06 Issue: 10, October 2019 |PP. 1190-1193 **e-ISSN: 2395-0056, “Static Structural Analysis of Foldable Frame for Bicycle using Finite Element Method”**
18. International Journal of Engineering Sciences & Research Technology, Volume 8 Issue 6 , June, 2019 |PP. 184-195 **ISSN: 2277-9655, “Design and Analysis of Tractor Trolley Axle Using FEA”**

National Conference :-

Sr.No.	Name of Conference	Institute	Date
1.	National Tribology Conference	IIT BHU , Varanasi	Dec 8-10, 2016
2.	ISTE National Convention 2013	TKIET Warananagar	19-21 Dec 2013
3.	RASCN 2012- National Seminar on Recent Advances in Synthetic chemistry and Nanomaterials.	SUK, Kolhapur.	21 st -22 nd January 2012
4.	NCRADME 2010- National Conference on Recent Advances in Design and Manufacturing Engineering	TKIET Warananagar	27 th -28 th February 2010
5.	RAPPD 2009- National Conference on Recent Advances in Product & Process Design	RIT , Islampur	21 st -22 nd March 2009
6.	NCEEM 2008- National Conference on Environmental Engineering and Management	TKIET Warananagar.	15 th and 16 th Feb 2008
7.	NCRTEAM 2007- National Conference on Recent Trends in Energy Engineering and Management	TKIET Warananagar.	2 nd and 3 rd March 2007
8.	RTPD 2006- Recent Trends in Product Design	D K T E's T.E.I. Ichalkaranjii	15 th and 16 th Sept 2006

International Conference:-

Sr.No.	Name of Conference	Institute	Date
1.	<u>International Conference on Industrial Tribology (ICIT) 2017</u>	<u>Tribology society of India , Kolkata</u>	<u>December 6-9, 2017</u>
2.	MATERIALS ENGINEERING TECHNOLOGY (MET 2016) and HEATTREAT (HTS 2016)	American Society of Metals	12-14 October 2016
3.	RAMPT 2013- International Conference on Recent Advances in Material Processing Technology.	at National Engineering College,Kovilpatti	7 th -9 th January2013
4.	<u>ICAMB 2009- International Conference on Advances in Mechanical and Building Sciences in the Third Millennium</u>	<u>VIT University, VELLORE</u>	14 th -16 th December 2009
5.	<u>PICETE 2008- Pravara International Conference on Emerging Trends in Engineering</u>	PREC , LONI	20 th -22 nd December 2008

➤ **Projects Guided:-** 20 [BE Mechanical]

8 Completed 2 Ongoing [ME/M.Tech. Mechanical (Design Engineering)]

➤ **Expert Lectures Delivered as a Resource Person:-**

Sr.No.	Name of STTP/FDP/workshop/Conference	Institute	Date
1	NBA Accreditation and Institution Building Workshop	TKIET, Warananagar	5 Dec 2009
2	FDP on teaching Skills	AMGOI ,Vathar	March 2017

- **STTPs/FDPs/Workshops/Attended/Participated:-**

Sr.No.	Name of STTP/FDP/workshop	Institute	Date	Attended/ Participated
1.	Participated in various curriculum development workshops for syllabus structure finalization and detailing of the syllabus for F.E., S.E., T.E., B.E. & M.E. Mechanical.			
2.	Optimization Techniques and Awareness on Research	AMGOI, Vathar	30 Dec-3 Jan 2020	Participated
3.	'R'	ICT at IIT Bombay & TKIET Warananagar	9th Nov 2019	Participated
4.	Renewable Energy Sources - Past present and future	AMGOI, Vathar	5-17 Feb 2018	Participated
5.	Tribology and Bearing Design	JJMCOE Jaysingpur	April-May 2015	Participated
6.	NBA Accreditation-PEOs , POs and Mapping	NITTR Bhopal & Government Polytechnic ,Nasik	20-24 Jan 2014	Participated
7.	Design of Experiments	Shri Chatrapati Shivaji Maharaj College of Engineering, Ahmadnagar	5-6 Dec 2013	Participated
8.	NPTEL	IIT Chennai & TKIET Warananagar	5th Sept. 2013	Participated
9.	Computer Aided Analysis using ANSYS	TKIET Warananagar	8-9 March 2013	Participated
10.	Teaching Methodology in M. E. Mechanical (Design Engg.) Revised syllabus	TKIET Warananagar	30 Jan 2013	Participated
11.	Engineering Thermodynamics	TKIET Warananagar, sponsored by the National Mission on Education through ICT, MHRD, Govt. of India	11th - 21st Dec,2012	Participated
12.	Aakash for Education	National Mission on Education through ICT (MHRD, Govt. of India) TKIET Warananagar	10th - 11th November 2012	Participated
13.	Research Methodology	National Mission on Education through ICT, MHRD at TKIET, Warananagar	25th June to 4th July 2012	Participated
14.	LaTeX	Ashokrao Mane Group of Institutions, Vathar	14th July 2012	Participated

15.	National Workshop on 'MATLAB/Scilab and Their Applications in Mechanical Engineering	MHRD,Remote Centre IIT Mumbai & TKIET Warananagar	8 -12 May 2012	Participated
16.	Curriculum Development of ME (Mechanical-Design Engg) Course	TKIET Warananagar	15th Oct 2011	Participated and Coordinated
17.	Computational Fluid Dynamics	TKIET Warananagar	15th to 19th February 2011	Participated
18.	Recent Developments in Advanced Materials' and Faculty Awareness Camp on Entrepreneurship (FACE)	National Institute of Technology Karnataka, Surathkal	16th June to 24th June 2008	Participated
19.	Inculcating research aptitude in engineering faculty	Institute of Technology Nirma University Ahmedabad	25th June to 7th July 2007	Participated
20.	Methods of Vibration control	SVERI's College Of Engineering, Pandharpur	18th Dec to 22nd Dec 2006.	Participated
21.	Residential workshop Corporate Confidence and Language Leadership	TKMA Warananagar & Black Smith, Mumbai	11th to 14th September 2006	Participated
22.	Finite element analysis and design optimization	K.I.T.'s college of engineering Kolhapur	24th June to 29h June 2006.	Participated
23.	Non Destructive Testing (NDT)	TKIET Warananagar	14-15 Feb 2006	Organized & Participated
24.	Mechatronics	K.I.T.'s college of engineering Kolhapur	6th June to 17th June 2005	Participated
25.	Recent trends in renewable energy sources	B.N.C.O.E. Pusad	6th Dec to 18th Dec2004	Participated
26.	Faculty Awareness Program (FAP) on entrepreneurship	TKIET Warananagar	2nd October 2003	Participated
27.	Computer Programming	R.I.T. Sakharale	20th May to 25th May 1996	Participated

- **Programs Organized:-**

Sr.No.	Name of Program	Institute	Date
1.	OPTRES 2019-20- Optimization Techniques and Awareness on Research	AMGOI, Vathar	30Dec-3Jan Feb 2020
2.	Teaching Methodology in M. E. Mechanical (Design Engg.) Revised syllabus	TKIET Warananagar	30 Jan 2013
3.	National Workshop on 'MATLAB/Scilab and Their Applications in Mechanical Engineering	MHRD,Remote Centre IIT Mumbai & TKIET Warananagar	8 -12 May 2012

4.	<u>Curriculum Development of ME (Mechanical-Design Engg) Course</u>	TKIET Warananagar	<u>15th Oct 2011</u>
5.	EUREKA and JIDNYASA 2010 a national level student's Paper Presentation Contest and ISTE student's Convention	TKIET Warananagar	2010
6.	NCRADME 2010- National Conference on Recent Advances in Design and Manufacturing Engineering	TKIET Warananagar	27 th -28 th February 2010
7.	<u>National Level Workshop on Institution Building and NBA Accreditation (June 2009 Criteria)</u>	TKIET, Warananagar	5 Dec 2009
8.	NCEEM 2008- National Conference on Environmental Engineering and Management	TKIET Warananagar.	15 th and 16 th Feb 2008
9.	NCRTEAM 2007- National Conference on Recent Trends in Energy Engineering and Management	TKIET Warananagar.	2 nd and 3 rd March 2007

- **Book Published:--** NIL
- **Departmental/Institutional Responsibilities:-**
 - Class Coordinator
 - ASM Chapter Coordinator.
 - NBA Central Coordination committee member
 - Member Secretary of central NBA Core committee.
 - Central NIRF Coordinator
 - PG coordinator of Mechanical Design Engineering.
 - NBA Coordinator of Mechanical Department.
 - Editor of Departmental Newsletter and Technical Magazine
 - Editor of Institutional Newsletter
 - IQAC Auditor
 - Auditor of Polytechnic NBA
 - Meditation Club coordinator
 - Shivaji University Examination Coordinator
- **Other Experience/Responsibilities If Any :-**
 - External Orals at Pune University.
 - Assessment Work , Redressal committee work and Paper Setting. (Shivaji University) for UG and PG
 - LIC committee member SU Kolhapur
 - Panel Member on Shivaji University Committee for second year Branch Transfer Inspection.
 - CAP Director, Shivaji University Kolhapur.
 - Senior Supervision and SRPD incharge (Shivaji University) and DBATU.
 - PG and UG Syllabus Setting.
- **Social Contribution If Any:-**

Social work, Organizing **Art of Living activities** and propagation of Yoga knowledge to society. Providing Extension services like membership of co-ordination committee of local junior colleges like Parashar Junior College (MCVC) Pargaon.
- **Professional Affiliation:-**NIL

- **Professional Memberships :-**
 - Life Member of **Tribology Society of India** (TSI LM -5816)
 - Life Member of **Indian Nuclear Society**, Mumbai.(LM INS-6967)
 - Life Member of **Indian Society for Technical Education**, New Delhi.
(LM ISTE – 22831)
 - **ASM International Chapter** Sustaining Member
