

## CURRICULUM VITAE



### KUMAR BABU PADAGA

**PROFESSOR & HEAD – MECHANICAL ENGINEERING DEPT.,  
GEETHANJALI INSTITUTE OF SCIENCE & TECHNOLOGY, NELLORE**

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**CORE BRANCH** : **Mechanical Engineering**

**SPECIALIZATION:** 1. Thermal Engineering 2. Refrigeration and Air-conditioning

**Titles of Subjects/Labs handled for various degree courses at the university level for B.E/B.Tech/M E/M Tech :**

#### U G Level

1. Thermodynamics
2. Thermal Engineering
3. Gas Dynamics and Jet Propulsion
4. Heat and Mass Transfer
5. Refrigeration and Air Conditioning
6. Total Quality Management
- 7 Fluid Mechanics and Fluid Machinery
8. Human Values and Professional Ethics

#### P.G. Level

1. Advanced Thermodynamics
2. Nano Technology
3. Design of Material Handling
4. Energy Management

#### Laboratories

- 1 Thermal Engineering Laboratory
- 2 Strength of materials Laboratory
3. Auto-Cad Drafting laboratory

## EDUCATIONAL BACKGROUND

- **X Class with Secondary School Certificate** from the Board of Secondary Education (BSE) , Andhra Pradesh –**1985- 83%** - **-Distinction**-Railway Mixed High School– Vijayawada
- **Intermediate** with Maths & Physical Sciences Group,K B N College, Vijayawada affiliated to Board of Intermediate Education ,Andhra Pradesh- **1985- 1987 – 83.4% - Distinction.**
- **B.Tech** in Mechanical Engg. –**V R Siddartha College of Engg.**, Kanuru, Vijayawada affiliated to **Acharya Nagarjuna University**, Andhra Pradesh during **1987-1991.Graduated in I Class – 73%.**
- **M.Tech** in Heat Power Engg. (R&AC) as core area from **J N T U College of Engg.**, Anantapur affiliated to J.N.T. University, Hyderabad Andhra Pradesh during **1992 - 1994 , Post Graduated in I class –Distinction – 80%.**
- **Ph.D.** in Mechanical Engineering from **P S G College of Technology**, Coimbatore affiliated to **Bharathiar University** , Coimbatore, Tamil Nadu for the Thesis titled **“Development and Performance Evaluation of Refrigeration and Air Conditioning Systems using Eco-friendly Hydrocarbon refrigerants”**.Thesis submitted April 2008, Public Viva Voce June 2009,Ph D awarded during November 2009.

## TOTAL TEACHING EXPERIENCE: 26 years

Academic Teaching : 26 Years

Research after Ph D : 14 Years

Academic Administration experience as Principal/HOD: 13 years

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| <b>Koneru Lakshmaiah College of Engg. (Andhra Pradesh)</b><br>Worked as <b>Lecturer</b> in Mechanical Engg. Dept.  | (2 Years)    |
| <b>Adhiyamaan College of Engineering (Tamil Nadu)</b><br>Worked as <b>Lecturer</b> in Mechanical Engg. Dept  | (1 Year)     |
| <b>Bannari Amman Institute of Technology ( Tamil Nadu)</b><br><b>Designations Held :Sr Lecturer (5 years) Asst Professor (3 years) Associate Professor (3 years)</b> | ( 11 Years)  |
| <b>Regency Institute of Technology(RIT),Yanam,Puducherry,near Kakinada (A.P)</b><br>Worked as <b>Professor , Mechanical Engg Dept &amp; Principal</b>                | (2 Years)    |
| <b>Siddartha Institute of Science and Technology, Puttur near Tirupati</b><br>Worked as <b>Professor, Mechanical Engg Dept &amp; Principal</b>                       | (3 years)    |
| <b>VEMU Institute of Technology , Pakala near Chittoor</b><br>Worked as <b>Professor, Mechanical Engg Dept &amp; Principal</b>                                       | ( 2 years)_  |
| <b>PRAGATI Engineering College, Surampalem, near Kakinada</b><br>Worked as <b>Professor and Head , Mechanical Engg Dept.</b>   | ( 2 years)   |
| <b>Sri Mittapalli College of Engineering , Tummalapalem, Guntur</b><br>Worked as <b>Professor &amp; Head , Mechanical Engg Dept.</b>                                 | ( 2 years)   |
| <b>Sree Venkateswara College of Engineering ,North Rajupalem,Nellore</b><br>Worked as <b>Professor , Mechanical Engg Dept &amp; Principal</b>                        | (3 years)    |
| <b>Geethanjali Institute of Science and Technology , Gangavaram, Nellore</b><br>Working as <b>Professor and Head , Mechanical Engg Dept.</b>                         | ( 6 months ) |

### **Industry Experience Details : 3 Years (Dec1993 to March1997)**

1. Worked as a Junior Engineer in M/s Coolex Industries , Vijayawada for **One Year** during Dec 1993 – November 94.
  - Involved in the Sales of Window/Split Air Conditioners, Water Coolers Deep freezers etc.
2. Worked as an Air conditioning Erection Engineer for M/s BLUE STAR LTD, Secunderabad Division in Andhra Pradesh for **Two Years**. April 1995 – March 1997.
  - Sales and Erection of Packaged Air – Conditioning Units

### **MAJOR ACTIVITIES Convened/Co-ordinated as HOD/PRINCIPAL 2023-2024**

1. **As HOD-Mechanical , Geethanjali Institute of Science and Technology , Nellore jointly** Convened along with EEE Dept the FIVE day Faculty Development Program(FDP) on **Recent Trends in Robotics and Automation** for Mechanical Engg and Electrical Engg Faculty of Geethanjali Institute of Science and Technology(GIST), Nellore **through funding of Rs 94,100/-** from ISTE AP Section through Faculty Development Cell of JNTUA , Ananthapuramu during **Jan 8<sup>th</sup> to 12<sup>th</sup> , 2024** in GIST Campus. Order Ref : **Procs No C5/JNTUA/Estt./Recent Trends in Robotics and Automation/FDP/2023**
2. **As HOD-Mechanical , Geethanjali Institute of Science and Technology , Nellore** convened the SIX day Skill Oriented Program on the title **Component Drafting through AUTOCAD Software** for II Year B Tech Mechanical students of Geethanjali Institute of Science and Technology(GIST), Nellore through APSSDC, Amaravati during Oct 5<sup>th</sup> to 11<sup>th</sup> , 2023 in GIST Campus.
3. **As Principal, Sree Venkateswara College of Engineering , Nellore(SVCN)** Co-ordinated with Department of School Education and Samagra Shiksha –Nellore with District Educational Officer , SPSR Nellore in the Two Week Orientation to Teachers in Digital Education Technology enabled Teaching and learning with aid of Interactive Flat Panels (IFPs) with usage of BYJU’S e- content organized by AP Govt through Sarva Siksha Abhiyaan Project during **July 7<sup>th</sup> to 21<sup>st</sup> , 2023** in SVCN Campus

### **2022-2023/2021-2022 / 2020-2021/ 2019-2020**

1. **As Principal,** Co-ordinated the MSME Host Institute – Business Incubation (HIBIAP003105 ) in MSME HACKATHON 2.0 and sent 26 IDEAS for funding through Sree Venkateswara College of Engineering , Nellore with Official approval from MSME , New Delhi during February 2023. One Idea got selected bearing number IDEAAP006763 titled **“Design and Development of Low Cost 3D Electrocardiogram(ECG)”** funded for Rs 15 lakhs by MSME , New Delhi.
2. **As Principal,** Sree Venkateswara College of Engineering , Nellore Co-ordinated the NBA Self Assessment Report (SAR) Documentation as per AICTE-NBA guidelines, for Sree Venkateswara College of Engineering College, Nellore and submitted the SAR reports of MECH/CSE/EEE/ECE Online on May 17<sup>th</sup> 2023 and Co ordinate the AICTE-NBA Inspection during July 21, 22, 23 2023 and all the FOUR Departments are accredited with NBA for THREE Years each during the results announced in September 2023.

- 3.As Principal**, Sree Venkateswara College of Engineering , Nellore Co-ordinated the AUTONOMOUS Documentation as per UGC guidelines, for Sree Venkateswara College of Engineering College, Nellore through JNTUA , Ananthapuramu and Obtained the Conferment of Autonomous for “10” years from 2023-2024 academic year onwards through UGC, New Delhi (*Conferring letter Ref No. F.2-10/2023(AC-Policy) dated 31<sup>st</sup> May , 2023*)
- 4.As Principal** of Sree Venkateswara College of Engineering , Nellore (SVCN) applied for the ASSOCHAM Best Institute award under ASSOCHAM – NEC UGC guidelines, got the nomination approved by EXPERT Committee and SVCN was awarded as “ **INSTITUTE of the YEAR – South**” during the 16<sup>th</sup> International Educational Leadership and Skill Development Summit conducted in New Delhi on 26<sup>th</sup> May 2023.
- 5.As Principal**, Co-ordinated the establishment of MSME Host Institute – Business Incubation (HI-BI) in Sree Venkateswara College of Engineering , Nellore with Official approval from MSME , New Delhi during July 2022
- 6.As Principal**, Co-ordinated the PEER Team Visit of NAAC Assessment for Sree Venkateswara College of Engineering College, Nellore during **September 20&21 ,2021** and **was able to get the Institute awarded NAAC “A” grade** with Cumulative GRADE point 3.02 out of 4.0
- 7.As HOD-Mechanical in Sri Mittapalli College of Engineering, Guntur** presented Mechanical Dept. facilities and Co-ordinated the Inspection relevant to Mechanical Department to NAAC Peer Team during **May 27,28 2019** and the Institute was successfully awarded B++ NAAC Accreditation

#### **2018-2019/ 2017-18 /2016-2017/2015-2016**

- 1. As Professor – Mechanical Obtained a Funding grant of Rs 2,92,666/-** through AICTE under AQIS scheme for conducting the Short Term Training programme under title “**Energy and Exergy analysis of different components in 660 MW thermal power plant**” for the Proposal submitted during Nov, 2018 through Pragati Engg. College, Kakinada.  
(STTP Sanction letter Ref No. 34-65/201/RIFD/STTP/Policy -1/2018-19 dated 12<sup>th</sup> December , 2019)
- 2. As HOD-Mechanical , Obtained the approval of Research Centre** in June 2019 to MECHANICAL Dept of Pragati Engg .College , Kakinada for a period of Two years by the Director of Research , JNTU Kakinada after Research Committee Inspection in September 2018.
- 3. As HOD-Mechanical , Involved in sanctioning of AP Govt. Funded Advanced Robotics and Mechatronics lab** by APSSDC during February, 2018-19 at PRAGATI Engg College, Kakinada.
- 4. As HOD-Mechanical**, Obtained Sanction of A P Govt for Setting up and utilization of APSSDC – Siemens/Dassault in Mechanical Engg Dept during 2017-18.
- 5. As Principal**, Co-ordinated the Submission of SSR to NAAC Bangalore Office from VEMU College during January 2017.

6. **As Principal** Co-ordinated the Permanent Affiliation Inspection of JNTUA Anantapuramu during May 2016, in which VEMU Institute of Technology was accorded a 5 Year Permanent Affiliation from 2016-17 onwards.(Ref : No.A2/Permanent Affiliation/Vemu IT-4M/2016-17)
7. **As Principal** , Monitored the submission, approval and utilisation of a Total Grant of **13 lakhs from DST New Delhi** is obtained for VEMU Institute for conducting INSPIRE Internship programme for Sciences Aspiring College Entry students after their X Class.(Ref No.DST/INSPIRE/01/2016/000097)
8. **As Principal** Obtained **ISO 9001:2015** ISO Certification to VEMU Institute during December 2015, through BMQR Agency, Chennai.
9. **As Principal**, Co-ordinated the documentation and obtained UGC Recognition of 2f and 12B to VEMU Institute of Technology.(Letter from UGC 8-44/2017(CPP-I/C) dated 15<sup>th</sup> February , 2017)

## **RESEARCH & Development Work Engaged**

### ➤ **Projects /Funding Proposals applied in 2019-20**

- As HOD- Mechanical in Sri Mittapalli College of Engineering, Guntur , Submitted a proposal for Technology Business Incubator on “**Agri-Engineering Utility to the local villages through Engineering Institution**” for an amount of Rs 74,00,000/- during March 2020.

### ➤ **Projects /Funding Proposals applied in 2018-19**

- Submitted a Funding proposal through AICTE –RPS scheme for a funding of Rs 20,60,000/- for the Research Promotion Scheme under title “**Development of Eco-friendly refrigerants in mitigating Global Warming for Climate change and Environmental Protection**”. Submitted proposal through online to AICTE on 12/12/2018 with application ID 1-4144628550.

### ➤ **Projects /Funding Proposals applied in 2017-18**

- Submitted a proposal for One Week Refresher programme on “Engineering Thermodynamics” through AICTE – AQIS for an amount of Rs 3,00,000/- during November 2017.

### ➤ **Involvements in R&D , Consultancy and Extension activities as Faculty in Mechanical Engineering**

- **Approved Advisory Member of the International Academy of Science, Technology, Engineering and Management (IASTEM)** , Membership ID IA23501CM dated 22<sup>nd</sup> January, 2023
- Approved **Editorial Board Member of World Journal of Engineering Research and Technology(WJERT)**( **ISSN 2454-695X** , Impact factor : 5.924)
- Approved Editorial Board Member of American Journal of Mechanical and Industrial Engineering (AJMIE)( **ISSN 2575-6079** Print **ISSN 2575-6060** Online) from Jan 2023 to Jan 2025.

- Approved Research Supervisor in Mechanical for Anna University, Coimbatore and K L University, Vaddesaram, Vijayawada
- Approved as External Ph D Guide for Scholars in Mechanical Engineering from JNTU Kakinada(from2012)/ JNTUA Anantapuramu (from 2016)
- Acted as Evaluator of Ph.D Thesis as other state Examiner from AP for Research Scholar of Karpagam University, Coimbatore, Tamil Nadu.
- Editor –in-Chief of International Journal of Emerging Engineering Research and Technology(IJEERT) **ISSN Number :2349-4395**
- Coordinated Consultancy projects related to Thermal Engg. Problems in Heat power Engg. Lab for M/s Shiva Distilleries, Coimbatore & Local Textile Industries around Coimbatore.
- Accompanied the Faculty team for energy/maintenance auditing of M/s Bannari Amman Textiles Ltd., & M/s Shiva Tex Yarn Ltd., Dindigul.

**Total Publications : 84 ( 1 Text Book ,51 Journals, 4 Patents ,28 Conferences)**  
**[Published Books :1 Patents : 4` Journals : 51 \*Springer/Scopus/SCI : 2**  
**UGC approved :33, Others : 16\* Conferences: 28[9 INC, 19 NC]**

**Expert Lectures :11 Poster presentations : 4**

**Research References :**

ORCID Number : **0000-0003-3125-8787** /[pkbbit@rediffmail.com](mailto:pkbbit@rediffmail.com)

Google Scholar :

Scopus ID :

Research GATE :

Vidwan ID :

Publons :

**TEXT BOOK Publications :(1)**

**Dr P Kumar Babu (October 2023) as First** author, got the TEXT Book titled ‘**Fundamentals of Fluid Mechanics**’ published by TARAN Publication , New Delhi (ISBN 978-81-19295-72-2) released in October 2023. The Co-author is Dr S Thulasi, Dept of Mechanical Engg, BIT Campus, Anna University, Trichy, TN.

**PATENT Publications (4)**

1. Under Applicant “**Sree Venkateswara College of Engineering**” , Nellore, AP and Inventor **P.Kumar Babu (2022)**“, along with 11 Co-applicant faculty of EEE Department, a Patent was filed on “**Development of a energy efficient street lighting system for smart city**” is published in Patent Office Journal No. 15/2022 dated 15/04/2022

2. Under Applicant “**Sree Venkateswara College of Engineering**” , Nellore, AP and Inventor **P.Kumar Babu (2022)**“, along with 14 Co-applicant faculty of CSE Department, a Patent was filed on “**An New Method for Automating Smart Green House using IOT**” is published in Patent Office Journal No. 04/2022 dated 28/01/2022

3. **P .Kumar Babu(2022)** , as Principal Sree Venkateswara College of Engineering , Nellore along with Dr Srikanth , Dr Nageswaran, Dr Arun , Dr Krishnamoorthy , Dr Thirukumaran Co authored a Patent under Title “**An Image Processing based system for concoction proportion verification for Pharmaceutical Industry**” filed under Canadian Intellectual Property Office , Canada with **Registration number 1193958**

4. **P. Kumar Babu(2022)** , as Principal Sree Venkateswara College of Engineering , Nellore along with Dr Rajan Kumar, Dr Ashish Kumar Tamrakar, Dr Arun , Dr Shankar , Ankur Sisodia ,Swati , Sarkar Partha , Dr Sanjeet Singh , Dr Vineet Kumar , Mankar Pandey Co authored a Patent under Title “ **Intelligence Manufacturing through Machine Learning Techniques and Artificial Algorithms with Resource and Process Optimization**” filed under Canadian Intellectual Property Office , **Canada** with **Registration number 1193919**

#### **JOURNAL PUBLICATIONS SPRINGER/SCOPUS/SCI Publications (2)**

1.Revathy S R , , **P.Kumar Babu(2023)** , Kirubakaran V ,Raja Kandasamy,**Ganeshan P**, Vivek Sivakumar,Ramshankar P,Mohanvel Vinayagam,Sachuthanantham Barathy,“ **Fuzzy Logic based Power Optimizer for Solar Photovoltaic Power Systems**” , *published on 19<sup>th</sup> Jan 2024 in Pertanika Journal of Science and Technology an SCI Journal* with **ISSN: 0128-7680 /e-ISSN : 2231-8526**, Vol 32(S1) 2024 , pp 93-110  
Ref : <https://doi.org/10.47836/pjst.32.S1.06>

2.S.Jayakishore,K.Sivakumar, M.Gopalakrishna, **P.Kumar Babu (2019)**“**Experimental Investigation on Precision machining on multiple holes by WEDM on Aluminium-6061 using Genetic Algorithm**”, *Springer Journal on Multiscale and Multidisciplinary Modeling, Experiments and Design* , Springer Nature Switzerland AG 2019, published online 10<sup>th</sup> October 2019. Ref: <https://doi.org/10.1007/s41939-019-00062-1>

#### **JOURNAL PUBLICATIONS UGC CARE Approved(33)**

1.Hitesh Sainadh G , Girish K, Bhargav Teja P, M R Subrahmanyam, **.Kumar Babu P(2023)**, “**Design and Fabrication of Foot step Power Generation**” , International Journal of Current Research(IJCR) – **ISSN: 0975-833X** Vol -15 Issue-4 , April 2023, pp 26-30 , UGC Care Group Journal.

2. B Haritha Bai , **Kumar Babu Padaga (2023)**, “**Fabrication of Multipurpose Agricultural machine**” , International Journal of Multidisciplinary Research(IJFMR) – **E-ISSN: 2582-2160** Vol -V Issue-II April 2023, UGC Care Group Journal

3.Ch Divakar, A V Bharath , Shaik Azeem , B Suneel, S M Shafee, **P.Kumar Babu(2023)** , , “**Fabrication of Solar operated Multipurpose Floor Cleaning Machine**” , International Journal of Multidisciplinary Research(IJFMR) – **E-ISSN: 2582-2160** Vol -V Issue-II March-April 2023, pp 1-10 , UGC Care Group Journal.

4.Desu Venkata Vishnuvardhan, Modiboyina Charan Teja, Shaik Sharooq, Shaik Naieem, Mallela Mercy Lydia, **P.Kumar Babu(2023)** , , “**Fabrication of Automatic cut off engine by detecting Alcohol content of the person**” , International Journal of Multidisciplinary Research(IJFMR) – **E-ISSN: 2582-2160** Vol -V Issue-II March-April 2023, pp 11-22 , UGC Care Group Journal.

5.Madan Mohan Cheepinaapi, Jayanth Morla, Nandakumar Pichuka , Asif Shaik, John Paul Veeramuchu,**Kumar Babu Padaga (2023)**, S M Shafee, “**Design and Fabrication of Regenerative Braking system**” , International Journal of Multidisciplinary Research(IJFMR) – **E-ISSN: 2582-2160** Vol -V Issue-III May-June 2023, pp 26-37 , UGC Care Group Journal.

6.Muniraj Mahankali , Musab Shaik , , Sridhar Dornala, Venkateswarlu Mari , **Kumar Babu Padaga(2022)**, Mercy Lydia Mallela, “**Design and Fabrication of Mutipurpose**

**Mechanical Machine**”, Journal of Interdisciplinary Cycle Research - ISSN: 0022-1945 Vol - XIV Issue-VI June 2022, pp 1830-1837 , UGC Care Group I Listed Journal.

7.Hitesh Ramayanam, Shanawaz Shaik , Mounika Kandala, Akshay Kumar Vellasiri, Jaffar Valli Shaik , B Haritha Bai, **Kumar Babu Padaga(2022)**, “**Topology Optimization and Structural Analysis of Wing attaching Bracket of Aircraft**” , The International Journal of Analytical and Experimental Modal Analysis - ISSN: 0886-9367 Vol -XIV Issue-VI June 2022, pp 2927-2936 , UGC Care Group I Listed Journal.

8. Abdul Azeez Shaik , Bharath Kumar, Ravi Shankar M, Naveen Ch, Abhinay V, **Kumar Babu Padaga(2022)**, “**Structural and Thermal Analysis of Gas Turbine Rotor Blade**” , Parishodh Journal - ISSN: 2347-6648 Vol –XI Issue-VI June 2022, pp 186-192 , UGC Care Group I Listed Journal.

9.Pradeep Mamuduru , Sasi Kumar Kakuturi, Harshith Amuluru , Sharu Shaik, Sanath Panem, Mercy Lydia Mallela, **Kumar Babu Padaga(2022)**, “**Delination and Analysis of an Inflated Tyre with ANSYS**” , The International Journal of Analytical and Experimental Modal Analysis - ISSN: 0886-9367 Vol –XIV Issue-VI June , pp-2907-2914, , UGC Care Group I Listed Journal.

10.Ramisetty Komal Raj, Kavaragiri Surya Prakash, Vakati Sai Kumar, Poluru Pavan Kumar, Shaik Zakir Hussain, **Kumar Babu Padaga(2022)**, “**Thermal Analysis of Fins with Different Geometries and Materials for Electronic Cooling**” , Parishodh Journal - ISSN: 2347-6648 Vol –XI Issue-VI June , pp-257-264, UGC Care Group I Listed Journal.

11.Kirmani Nazeer, Kunati Soma Sekhar, Pamujula Sudeep, Depuru Ram Manohar, Karudhumpala Sujith, Somisetty Srinivasa Ravi Sankar , **Kumar Babu Padaga(2022)**, “**Modelling and of Engine Cylinder Fin Body by using Different Geometry and Materials**”, Parishodh Journal - ISSN: 2347-6648 , Vol –XI Issue-VI June , pp-265-272, UGC Care Group I Listed Journal.

12.**P.Kumar Babu(2022)**, S M Shafee “**Design and Simulation Injector 3304 D by Laser Power Bed Fusion method** ”, Journal Mukht Shabd - ISSN: 2347-3150 , Vol –11 Issue-7, June2022,pp-1239-1249  
[http://m.box.com/shared\\_item/https%3A%2F%app.box.com%2Fs%2Ftgy9608xq68jcw49viwvdnfx191k3062](http://m.box.com/shared_item/https%3A%2F%app.box.com%2Fs%2Ftgy9608xq68jcw49viwvdnfx191k3062)

13. S M Shafee , **P.Kumar Babu(2022)**,A Bhargav ,G.Vijay kumar, “**A Zinc based Aluminium Alloy Analysis and an improved alloy fabrication using za25 and za37** ”, IJFANS JournalISSN:2320-7876,Vol-11Issue12,Dec2022  
<http://www.ijfans.org/uploads/paper/249827f421efcc8de5db13048f115e83.pdf>

14. G.Vijay kumar, S.S Ravi Shankar , MRS Subrahmanyam, **P.Kumar Babu(2022)**, “**An Analysis of Friction Stir welding of marine grade 5083 aluminium alloy using weld parameters**”, Industrial Engineering Journal Mukht Shabd - ISSN: 2347-3150 , Vol –11 Issue12,Dec2022 [http://www.journal-iiie-india.com/1\\_jan -dec\\_22/13\\_dec.pdf](http://www.journal-iiie-india.com/1_jan -dec_22/13_dec.pdf)

15.S M Shafee ,M Mercy Lydia , V. Abhinay ,**P.Kumar Babu(2021)** “**A Study of Wearable Robotic Devices designed for Flexibility and Power assisting Voice Commands by using CATIA V5** ” , Journal IIIE - ISSN: 0970-2555 , Vol –50 Issue-7, July 2021 , pp-39-46, UGC Care Group I Listed Journal. [http://www.journal-iiie-india.com/1\\_jan -dec\\_21/7\\_july.pdf](http://www.journal-iiie-india.com/1_jan -dec_21/7_july.pdf)



16. Mohammed Arif , **P Kumar Babu (2021)**, B.Kiran Kumar “Study and Thermal Analysis of In-wheel Electric motor housing with different cooling fin arrangement using ANSYS ” , **International Journal of Advance Scientific Research and Engineering Trends(IJASRET) - ISSN: 2456-0774** Vol-6 Issue-2 Feb 2021 , pp 76-83 , UGC Care Group Listed Journal
17. S Siva Sankara Vara Prasad, **P Kumar Babu (2021)**, “Computational Analysis on Turbulent Nanofluid flow in Helical tube Heat Exchangers” , **International Journal of Advance Scientific Research and Engineering Trends(IJASRET) - ISSN: 2456-0774** Vol-6 Issue-2 Feb 2021 , pp 84-90 , UGC Care Group Listed Journal.
18. Dudiki Harinadh, **P Kumar Babu (2021)**, B.Kiran Kumar “ Heat transfer Analysis of In-wheel Electric motor housing with different cooling fin arrangement using ANSYS ” , **International Journal of Advance Scientific Research and Engineering Trends(IJASRET) - ISSN: 2456-0774** Vol-6 Issue-2 Feb 2021 , pp 132-138 , UGC Care Group Listed Journal
19. Atluri Purna Sandeep , Gurram Raj Kumar , Mukthipati Harish , Kotapati Ravindra Reddy, Venkata Ratnam Dirisala , **Kumar Babu Padaga(2020)**, “Design and Analysis of Connecting Rod for Petrol Engine by using CREO and ANSYS Software ” , **Juni Khyat - ISSN: 2278-4632** Vol-10 Issue-5 No. 3 May 2020, pp 29-33 , UGC Care Group I Listed Journal.
20. Ramanjineyulu Mudigedu , Chandrasekhar Reddy Gujjula, Teja Gunturu, Rajesh Kagithala , Venkata Raghavendra Rao Mathe , **Kumar Babu Padaga(2020)**, “Design and Analysis of Combustion Chamber in I.C.Engine” , **Dogo Rangsang Research Journal(DRSR)**, ISSN : 2347-7180 , Vol-10 Issue-07 No. 11, July 2020, pp 98-105, UGC Care Group I Journal.
21. K.Sai Pradeep , **P.Kumar Babu(2020)**, “ Computational Modeling and FEA on Automobile Disc Brake using ANSYS ” , **International Journal of Science, Engineering and Technology(IJSET)- ISSN: 2348-4098(online) 2395-4792(Print)** Vol-8 Issue-4 20 July 2020, An Open Access Journal.
22. Y.Guna Sai , **P. Kumar Babu (2020)**, “CFD Analysis of Two Double Pipe Heat Exchanger with Fe<sub>3</sub>O<sub>4</sub>+ AG/Ethylene Glycol hybrid Nano fluid , **Dogo Rangsang Research Journal(DRSR)**, ISSN : 2347-7180 , Vol-10 Issue-07 No. 23, July 2020, pp 104-111, UGC CARE Group I Journal.
23. Devisetty Rajesh, Goddeti Srinivasarao, Buddala Sandeep, Cheparthi Manikumar, P.A.M.K.Srinivas, **Kumar Babu Padaga (2020)**, “Design and Thermal Analysis of a Steam Boiler using CREP and ANSYS Software , **Journal of Interdisciplinary Cycle Research(JICR)**, ISSN: 0022-1945, Vol-12 Issue-06 , June 2020, pp 995-1002, UGC CARE approved Group II Journal
24. Palugulla Sivarami Reddy , Shaik Gouse Basha, Seelam Narsimha Rao, Voleti Ashok, **Kumar Babu Padaga (2020)**, “Analysed Design of Air Craft Wing Structure using Pro-Engineering WILDFIRE 5.0, **International Journal of Analytical and Experimental Modal Analysis(IJAEMA)**, ISSN: 0886-9367, Vol-12 Issue-06 , June 2020, pp 1320-1325, UGC CARE approved Group II Journal
25. Salman Kahan Pathan, Manikanta Kancharla, Nagi Reddy Rikkala, Narendra Kumar Avula, **Kumar Babu Padaga (2020)**, “Modelling and Analysis of I C Engine Piston using CREO and ANSYS Software , **Journal of Interdisciplinary Cycle Research(JICR)**, ISSN: 0022-1945, Vol-12 Issue-06 , June 2020, pp 1003-1006, UGC CARE approved Group II Journal.

26.Pati Yalamandaiah , Syed Sameer, Shaik Mohammad Subhani, Jarugumalli Sathish, Shaik John, Venkata Raghavendra Rao Mathe, **Kumar Babu Padaga (2020)**, “Design and Analysis of a Cantilever Beam by using CREO and ANSYS Software ,International **Journal of Analytical and Experimental Modal Analysis(IJAEMA)**, ISSN: **0886-9367**, Vol-12 Issue-06 , June 2020, pp 1316-1319,UGC CARE approved Group II Journal

27. **P.Kumar Babu(2020)** , Sunkara Jayakishore , “ Experimental Parametric Studies on Monel using Abrasive Water jet Machining” , **Juni Khyat - ISSN: 2278-4632** Vol-10 Issue-5 No. 3 May 2020, pp 29-33 , UGC Care Group I Listed Journal

28.\_Y.Phanindra Kumar , **P Kumar Babu (2019)** “Design and Thermal Analysis of Fixture Assembly and Base plate for Crank case in Machining Center ”, International Journal for Research in Applied Science & Engineering Technology (IJRASET), ISSN:2321- 9653, **(July 2019)**, pp808-813.**UGC approved Journal.** Volume-6 Issue-7, pp3095-3104.

29.Shaik Bajan, **P Kumar Babu (2019)**,M.V.Varaprasad “**Performance analysis of Li-Br H<sub>2</sub>O VAR system by applying Magnetic field to Liquid line**”, International Journal for Research in Applied Science & Engineering Technology (IJRASET), ISSN:2321- 9653, **(July 2019)**, pp808-813.**UGC approved Journal.**

30.A.Surendra, **P Kumar Babu (2019)**, “**CFD analysis of Two pass double pipe heat exchanger with TiO<sub>2</sub>/Ethylene Glycol Nano fluid**”, International Journal for Research in Applied Science & Engineering Technology (IJRASET), ISSN:2321- 9653, **(July 2019)**, pp808-813.**UGC approved Journal.**

31.M.Swaroop Rani, **P Kumar Babu (2019)**,D.Pitchaiah “**Experimental Studies on the characteristics of Diesel Engine with Rice Bran oil Methyl Ester**”, Global Journal of Engineering Science and Researches (GJESR), ISSN:2348-8034,Rani 6(5)DOI-10.5281/zenodo.2853962 **(May 2019)**, pp 194-202.**UGC approved Journal.**

32..M Rambabu ,**P Kumar Babu (2018)**, M.Sunil Raj “**3D Modeling and Thermal Analysis of Electrical Transformer Cooling System**”, International Journal of Technical Innovation in Modern Engineering and Science (IJTIMES: e-ISSN2455-2585, Vol.4, IssueNo.5**(May 2018)**, pp 1060-1066.**UGC approved Journal.**

33.Alapati Babji, Y.V.Hanumantha Rao, **P Kumar Babu (2017)**, **P.Srinivasa Rao** “**Crevised Window System for Indoor Air Quality Improvement and Energy Conservation for Medium capacity halls**”, International Journal of Advanced Mechanical Engineering(IJAME-ISSN2250-3234, Vol.7, IssueNo.1(2017), pp 41-54.**UGC approved Journal bearing Sl.No : 3286 Journal No.: 62539**

### **JOURNAL PUBLICATIONS NON –UGC JOURNALS (16)**

1.M.Ravi Kumar,**P Kumar Babu (2020)** “**Analysis and Optimization of Engine Cylinder Heat Transfer through Fins of varying geometry and material**”, International Research Journal of Engineering and Technology (IRJET- e ISSN 2395-0056, Vol.7, IssueNo.5, May 2020, pp 2185-2202.

2.M.Venkateswara Rao,**P Kumar Babu**, S.Srikanth **(2017)** “**Design and CFD Analysis of different pipe joints used in Water supply Industries**”, International Journal of Innovative

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Technology and Research (IJTR-ISSN 2320-5547,Vol.5,IssueNo.4, June-July 2017, pp 6955-6958.

3.M.Harish,**P Kumar Babu (2017)** “**Analysis of Oxy-fuel cutting process parameters using Grey-Taguchi Technique for Mild steel HRE350**”, International Journal of Innovative Technology and Research (IJTR-ISSN 2320-5547,Vol.5,IssueNo.2, March 2017 , pp 5777-5783.

4.Kumar Penumuru, Dora Babu M ,Suresh G, **P Kumar Babu (2016)** “**Multi –Purpose Machine Tool : A Key to Increased Productivity , Decreased cost and saving in power consumption and Floor area requirement**”, International Journal Emerging Engineering Research and Technology(IJEERT-ISSN2349-4395,Vol.4,IssueNo.10,October 2016 , pp 1-6.

5.Jaya kishore S, P.Charan Theja, **P Kumar Babu (2016)** “**Experimental Investigation & Optimization of WEDM Process Parameters by Taguchi**”, Research Journal Engineering and Technology(RJET-ISSN 0974-2824,Vol.9,IssueNo.2, Apr-June 2016 , pp 20-27.

6.Jaya kishore S, P.Gayathri Devi, **P Kumar Babu (2015)** “**Optimization of Abrasive Water Jet Machining Parameters for Mild Steel by using Grey Taguchi Technique**”, Research Journal Engineering and Technology(RJET-ISSN 0974-2824,Vol.8,IssueNo.3, July-Sept 2015 , pp 3-8.

7.Sivakumar K, Siddeswara Rao B , **P Kumar Babu (2015)** “**To estimate standard time of Freezer by Work Study**”, Research Journal Engineering and Technology(RJET-ISSN 0974-282,Vol.8,IssueNo.3, July-Sept 2015 , pp 13-16.

8.JayaKishoreS, B.Siddeswara Rao, **P Kumar Babu (2015)** “**FEM Analysis on Submarine Propeller blade for improving efficiency using Solidworks and ANSYS work bench**”, International Journal of Emerging Engineering Research and Technology(IJEERTISSN23494395(Print)&ISSN23494409(Online)),Vol.3,IssueNo.11,November 2015, pp.144-151

9.Jaya kishore S, P.Gayathri Devi, **P Kumar Babu (2015)** “**Computational Design and Fabrication of Exhaust Gas Calorimeter with C-Programming Template**”, International Journal of Emerging Engineering Research and Technology(IJEERT-ISSN2349-4395(Print)& ISSN 2349 -4409(Online)),Vol.3,IssueNo.5, May 2015 , pp 47-54.

10.C.Suresh , F.Ananda Raju, **P Kumar Babu (2014)**, M.L.S Devakumar “**Numerical Analysis of Fluid Flow**” International Journal of Mechanical Engineering & Computer Applications (IJMCA- ISSN2320-6349),Vol.2,IssueNo.6, Nov-Dec 2014 , pp 160-162.

11.G.Ashok kumar, Jaya Kishore S S, **P Kumar Babu (2014)** “**FEM Analysis of Disc Brake with varying parameters and Materials for improved efficiency using CATIA V5R20 and HYPERMESH 11**”International Journal of Mechanical Engineering & Computer Applications (IJMCA- ISSN 2320-6349),Vol.2,IssueNo.6, Nov-Dec 2014, pp 169-176.

12. Arun Kumar Dash, S.S. Panda , **Dr P Kumar Babu (2014)** “**The Profile of Longitudinal Fluid Velocity in an Axially Symmetrical Jet Mixing of an Incompressible Fluid**”International Journal of Mechanical Engineering & Computer Applications (IJMCA-ISSN2320-6349),Vol.2,IssueNo.4, July-August 2014, pp 91-93.

13.A Syam Prasad, BVVVB Lakshmi pathi Rao, A Babji, **Dr P Kumar Babu (2013)** “**Static and Dynamic Analysis of Centrifugal Pump Impeller**”, International Journal on Scientific

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and Engineering Research(IJSER-ISSN2229-5518),Vol.4,IssueNo.9,September 2013, pp 966-971.

14. Kumar Babu P, Tharves Mohideen S , Devadasan S R (2007)“**Simulation studies on the performance of Autocascade refrigeration system using eco friendly refrigerant mixtures**” in ‘Technology ‘ a National Journal published from PSG College of Technology, Coimbatore , Vol.2,Issue No.4 , pp.8-13.

15. Kumar Babu P, Tharves Mohideen S , Devadasan S R, Dr A M K Poduval (2007) “**Selection of an eco-friendly refrigerant for the design of domestic refrigerators** “.Paper submitted to the National Journal Indian Journal of Engineering ,Science and Technology (IJEST), a Research Technical journal from Bannari Amman Institute of Technology, Sathyamangalam, Vol.1,Issue No.2 , pp.9-14

16. Tharves Mohideen S ,Rajendiran G , Kumar Babu P, Devadasan S R(2007) “ **Studies on techno-economic viability of cascade compression-absorption hybrid refrigeration system for dairy industries**” National Journal Indian Journal of Engineering ,Science and Technology (IJEST), a Research Technical journal from Bannari Amman Institute of Technology, Sathyamangalam, Vol.1,Issue No.3 , pp.9-15.

## CONFERENCE PUBLICATIONS

### International Conferences(9)

1.S.Arun,K.Sathiyasekar,**P.KumarBabu(2021)**,R.Kannamma,R.Krishnamoorthy,DrS.Padma priya “**Predictive Analytics using multilayered perceptron for prediction of covid-19 spread**” at the Virtual International Conference on **Advanced Computing and Ingenious Technology in Engineering Science (ICACITES-2021)** organized by Galgotia Institute of Technology, Noida , New Delhi during December 30- 31, 2021.

2.S.Jayakishore,K.Arun,D.Anjan Kumar Reddy, **P.KumarBabu(2020)**, “**Investigation of Mechanical properties and SEM analysis of egg shell re-inforced Coco peat hybrid composites**” at the Virtual International Conference on Advanced Technologies and Research in Mechanical Engineering (VICTRAME-20) organized by MEA College of Engineering, Kerala during 26<sup>th</sup>- 28<sup>th</sup> October 2020.

3.**P.KumarBabu(2019)**, SJayakishore,G.Suneel Kumar,“**Experimental Parametric Studies on Monel using Abrasive Water Jet Machining**” at the International Conference on Recent Trends in Applied Engineering and Management (ICRTAEM-2019) organized by Sri Mittapalli College of Engineering,Tummalapalem, Guntur, Andhra Pradesh during 16<sup>th</sup> November 2019.

4.SJayakishore,K.Sivakumar,K.Rajasekhar,**P.KumarBabu(2018)**,“**Experimental Investigation of Precision Machining of Multiple holes by WEDM on Aluminium 6061 by Genetic Algorithm**” at the International Conference on Latest Innovations in Materials Engineering and Technology(ICLIET -2018) organized by Department of Mechanical Engineering, LENDI Institute of Technology, Vijayanagaram, Andhra Pradesh during 15<sup>th</sup> and 16<sup>th</sup> June 2018.

5.A Anandha Moorthy, N Natarajan, P K Palani, **P.Kumar Babu**, M Anantha Kumar, K S Sathesh(2014),“**Dry Sliding Behaviour of Aluminium Alloy based Self Lubricating Hybrid Metal Matrix Composite using Taguchi’s Techniques**” at the International Conference on Advances in Design and Manufacturing(ICAD&M 14) organized by Department of Mechanical and Production Engineering, **National Institute of Technology, Trichy**, Tamil Nadu during 5-7 December 2014.

6.Gowtham Daas Rajendran, **Kumar Babu P**, Sandeep Koundinya (2010) “**Design of Mechanical Separator for Solid Waste Management**” at the 3<sup>rd</sup> International Conference on South East Asian Natural Resources and Environmental Management(SANREM) jointly organized by the School of Science & Technology, **UMS and Science & Technology Unit, SABAH, State Govt, Malaysia** during 3-5 August 2010.

7.Gowtham Daas Rajendran, Sandeep Kaundinya, **Kumar Babu P (2010)**,“**Design of Mechanical Separator for Solid Waste Management**” International Conference on Energy Resources in Water and Waste Management”, organized by the **Department of Civil Engineering, Indian Institute of Technology, Chennai**, India jointly with **American Society of Civil Engineers(ASCE), USA** during January 8-10,2010.

8.**Kumar Babu P**, Shukla V P and Devadasan S R (2006), “**Optimized Simulation and Modeling of Vapor Compression Refrigeration System with Natural and Eco-friendly refrigerant**” International Conference on Global Manufacturing and Innovation -2006 ”, organized by the **Department of Mechanical Engineering, Coimbatore Institute of Technology, Coimbatore**, India jointly with **University of Massachusetts, USA**.

9.**Kumar Babu P** and Devadasan S R(2006), “**Analyzed Methodology for the Design of Eco-friendly domestic Refrigerators**” International Conference and Exhibition on Total Engineering, Analysis and Manufacturing Technologies- TEAM TECH 2006 conducted at **IISC, Bangalore**, India.

### National Conferences(19)

1.Sunkara Jaya Kishore, P.JayaPrakash, **P.KumarBabu(2021)**, presented a paper on “**Experimental Investigations on Tribological Characteristics of Hybrid Composites**” in the 3<sup>rd</sup> National E-Conference on "Emerging Trends in Mechanical Engineering" (ETIME-2021) held during 28th- 29th Sept-2021 organized by Sreenidhi Institute of Science and Technology , Hyderabad, Telangana.

2.A.Ananda Moorthy , **P.KumarBabu(2018)** , presented a paper on “**Design and fabrication of suspension system for all terrain vehicle**” in the National Conference on "Advancements in Mechanical, Manufacturing & Civil Engineering" (NCAMMCE-18) held during 6th- 9th March-2018 organized by M.Kumarasamy college of Engineering, Thalavapalayam, Karur, Tamilnadu.

3.A.Ananda Moorthy, **P.KumarBabu(2018)** , presented a paper on “**Fabrication of Fertilizer Spraying Machine**” in the National Conference on "Advancements in Mechanical, Manufacturing & Civil Engineering" (NCAMMCE-18) held during 6th- 9th March-2018 organized by M.Kumarasamy college of Engineering, Thalavapalayam, Karur, Tamilnadu.

4.M.Rambabu , **P.Kumar Babu(2017)**, presented a paper on the title “**Design and Development of Transformer Cooling System by using CATIA and ANSYS to increase the life of an Electric Transformers**” during the three day National Conference on Innovative Perspectives of Chemistry in Environment, Pharmacy and Technology(CEPT - 2017) organized by R&D Division,Pragati Engineering College, Surampalem in collaboration with Association of Chemistry Teachers (ACT), Mumbai during 6<sup>th</sup> -8<sup>th</sup> October.

5.KVNVN Rao , **P Kumar Babu(2016)**, “Supply Chain Management(SCM)- A Tool to achieve Operational Efficiency”, National Conference on “Innovations in Mechanical Engineering- NCIME-16” organized by Madanapalle Institute of Technology and Science (MITS), Madanapalle, Andhra Pradesh during **21-22, October, 2016**.

6. Jaya Kishore S, D Sudhakara, G Ashok kumar, **P Kumar Babu (2014)** “**FEM Analysis of Disc Brake with varying parameters and Materials for improved efficiency using CATIAV5R20 and HYPERMESH 11**” 2<sup>nd</sup> National Conference on Innovations in Mechanical Engineering conducted at Madanapalle Institute of Technology and Sciences(MITS), Madanapalle during December 18-20, 2014.Proceedings published in Conference Report with ISBN 978-93-82163-75-8 pp 194-204.

7.C.Bhargavi, G.Ravindra Reddy, **Dr P Kumar Babu(2014)**, “Design and Optimization of Outlet shape on Co-axial turbulent jet by using CFD” , National Conference on “Recent Advances in Mechanical Engineering- RAME-2K14” organized by the Department of Mechanical Engineering, Sri Venkateswara College of Engineering and Technology, Chittoor, Andhra Pradesh on **8th August 2014**.

8.N.Sreedhar, G.Ravindra Reddy, **Dr P Kumar Babu(2013)**, “CFD Analysis of a Multistage Launch Vehicle with Strapons on Flow Simulation” , National Conference on “Innovations in Mechanical Engineering- NCIME-13” organized by Madanapalle Institute of Technology and Science (MITS), Madanapalle, Andhra Pradesh during **21-22, June 2013**.

9.S.Jayakishore , M.Lavakumar , **Dr P Kumar Babu(2013)**, “Design and Analysis of Multiplate Clutch by using FEM” , National Conference on Advances in Mechanical Engineering (NCAME) organized by Vignan University,Vadlamudi ,Guntur,Andhra Pradesh on **5-6 April 2013**.

10.MSRS Prasad, S S Panda, **Dr P Kumar Babu (2012)**, “Damage Recognition in Wood-Plastic Composites using Neural Network”, National Conference on Advanced Computing Techniques and Applications(NCACTA) organized by Roland Institute of Technology, Surya Vihar, Berhampur on **1-2 December 2012**.

11.Prasad DVSSSV and **Kumar Babu P (2011)**. “**Design and Fabrication of Mobile Phone Charger Using Gear Train**” National Conference on Advanced Communication and Electrical Engineering (NCACEE-2011) organized by Dept of EEE & ECE, Regency Institute of Technology, Yanam, UT of Puducherry, India.

12.Prasad MSRS, **Kumar Babu P** and Panda SS (2011). “**Optimize Image Registration**” National Conference on Soft Computing Techniques and Applications (SCTA-2011) organized by Dept of CSE & IT, BVC Engineering College, Amalapuram, Andhra Pradesh.

13. **Kumar Babu P**, Poduval A M K, Tharves Mohideen S ,Rajendiran G (2009), “**Studies on techno-economic viability of cascade compression-absorption hybrid refrigeration**”

**system for dairy industries”** Paper presented in the National Conference on Refrigeration and Air-Conditioning(NCRAC 2009) at IIT Madras, Chennai during January 2009.

14.**Kumar Babu P** and Poduval A M K (2007) , **“Natural and Alternative Refrigerants”** National Conference on Emerging trends in Thermal Engineering, Competitive Manufacturing and Management organized by St Joseph ‘s College of Engineering , Chennai , India.

15.**Kumar Babu, P** , Poduval A M K and Tharves Mohideen S (2007), **“ Hydrocarbons as replacement refrigerants in commercial Refrigeration and Airconditioning : an Overview”** National Conference on Recent Advances in Mechanical Engineering conducted at K S R College of Engineering and Technology , Tiruchengode, India

16.**Kumar Babu P**, Poduval A M K and Devadasan S R (2006), **“Optimized Simulation and Modeling of Vapor Compression Refrigeration System with Natural and Eco-Friendlyrefrigerant”** National Conference on Optimization Techniques in Engineering , Science and Technology ”, organized by the Department of Mechanical Engineering, Bannari Amman Institute of Technology , Sathyamangalam , India.

17.**Kumar Babu P**, Tharves Mohideen S , Devadasan S R(2005)**“Performance Investigation of Hydrocarbons as Eco friendly Refrigerants”** National Conference on Advances in Engineering Design at Bannari Amman Institute of Technology, Sathyamangalam,

18.**Kumar Babu P** “Performance Investigations of Hydrocarbon blends as Eco friendly Refrigerants” presented at the National conference on **“Advances in Engineering Design”** held at Bannari Amman Institute of Technology, Sathy during 29-30, April 2005.

19.**Kumar Babu P(2002)**,**“Development of Value added Business oriented Environmentally safer Technologies (EST’s) and Transfer services for Small and Medium Industries (SME’s)”** National Conference on Future trends in Mechanical Engineering organized by the Department of Mechanical Engineering, Bharath Institute of Science and Technology, Chennai, India 2. Reviewed a sent copy of Thermal Engg. Text Book by Tata Mcgraw Hill Publishers, New Delhi.

### **Expert Lectures/Presentations Delivered : 13**

1. Lecture Presentation through Power Point slides delivered on the topic **“Effective Mentoring System”** for Faculty of SMCE &SMITW , Tummalapalem on 16-11-2019 in Sri Mittapalli college of Engineering, Tummalapalem.

2. Lecture delivered on the topic **“Thermodynamics”** as per syllabus of JNTUK for **II Year Mechanical Engineering** students of **Ideal Institute of Technology**, Kakinada, East Godavari District, A.P on **16-9-2017**.

3. Lecture delivered on the topic **“Refrigeration and Air-conditioning”** for **III Year B Tech Mechanical Engineering** students of Pragati Engineering College, Surampalem, Kakinada, A.P on **28-02-2017**.

4. Lecture delivered on the topic **“Advanced Refrigeration Systems”** for **III Year B Tech Mechanical Engineering** students of MeRITS College of Engineering, Udayagiri, Nellore District, A.P on **25-04-2016**.

5.Lecture delivered on the topic “**Concepts of Thermodynamics**” for **III Year B Tech Mechanical Engineering** students of Sree Venkateswara College of Engineering, Kodavaluru, Nellore District, A.P on **28-03-2016**.

6.Lecture delivered on the topic **Design of Air Conditioning Systems** for **IV Year B Tech Mechanical Engineering** students of NRI Institute of Technology, Pothavarappadu, Krishna District, A.P on **27-01-2016**.

7.Expert Lecture delivered on the topic “**Emerging Trends in Refrigeration and Air-Conditioning**” for **III Year Mechanical Engineering** students of Siddharth Institute of Engineering and Technology, Puttur, Chittoor District, A.P on **17-4-2015**.

8.Lecture through Power Point Presentation delivered on the topic “**Thermodynamics**” for **II Year Mechanical Engineering** students of **Sri Sunflower College of Engg and Technology**, Lankapalli, Challapalli Mandal, Krishna District, A.P on **8-4-2015**.

9..Lecture delivered on “**Entrepreneurship – Relevant Motivational Factors**” on 6<sup>th</sup> December 2014 during the 3 day Entrepreneurship Awareness camp (EAC) conducted at Siddharth Institute of Engineering and Technology, Puttur, Chittoor District, AP during 5-7 December, sponsored by Entrepreneurship Development Institute (EDI), Ahmedabad, Gujarat under DST-NIMAT Project.

10. Lecture delivered to B Tech Students of Mechanical Engineering on “**Eco-friendly Refrigeration and Air-conditioning systems using Hydrocarbon(HC) Refrigerants**” on August 7, 2014 at Narasimha Reddy Engineering College, Medchal Mandal, Ranga Reddy District, Telangana State.

11.Lecture delivered to IV Year B Tech Students of Mechanical Engineering on “**Non Conventional Methods of Refrigeration**” during November 7, 2012 at K L University, Vaddeswaram, Vijayawada.

12.Lecture presented during NCUTE programme on Industrial Aspects of Textile Engineering during July 17 – 22 , 2002 at B I T , Sathyamangalam.

**Lecture Title :** *Trends in Humidification of Textile Industries*

13. Lecture presented during Short Term Course Environmental Awareness sponsored by Ministry of Environment and Forests , New Delhi during August 11-13, 2005

**Lecture Title :** *Sources, causes and consciousness related to Environmental impact problems in Refrigeration and Air Conditioning*

#### **POSTER PRESENTATIONS : 4**

1.Durga Prasad, Vivek , **P.Kumar Babu(2017)** , Poster presentation done “**Non Conventional Refrigeration System using Magneto-caloric effect**” during the three day National Conference on Innovative Perspectives of Chemistry in Environment, Pharmacy and Technology(CEPT -2017) organized by R&D Division , Pragati Engineering College, Surampalem in collaboration with Association of Chemistry Teachers (ACT), Mumbai during 6<sup>th</sup> -8<sup>th</sup> October in Pragati Engineering college campus.

2.M.Venkateswara Rao, **P.Kumar Babu(2017)** , Poster presentation done “**Design and CFD Analysis of different pipe joints used in Water supply Industries**” during the three day



National Conference on Innovative Perspectives of Chemistry in Environment, Pharmacy and Technology (CEPT -2017) organized by R&D Division , Pragati Engineering College, Surampalem in collaboration with Association of Chemistry Teachers (ACT), Mumbai during 6<sup>th</sup> -8<sup>th</sup> October in Pragati Engineering college campus.

3.P.Kumar Babu(2017), K.Balaji ,Technical **Poster presentation** on the topic “ **Damping studies on particle filled Polymers and Composites**” during the **104<sup>th</sup> Annual Convention of Indian Science Congress Association ISCA 2017** organized in Sri Venkateswara University , Tirupati during Jan 3 – 7, 2017.

4. S.Bhanumurthy,K.Balaji, M.Dora babu, **P.Kumar Babu(2016)**, **Poster presentation** done on the topic “**Vibration Damping studies on Nano particle filled Polymers and FRP Composites**” during the **Indian Machine Tools Exhibition” IMTEX 2016** conducted by Indian Machine Tools Manufacturers Association (IMTMA) during 21<sup>st</sup> to 26<sup>th</sup> January 2016 at Bangalore International Exhibition Centre(BIEC), Bangalore.

## **TRAININGS AND SEMINARS ORGANIZED**

### **2023-2024**

- Convened a **Five Day Faculty Development Programme** on “**Recent Trends in Robotics and Automation**” during Jan 8- Jan 12, 2024 at Geethanjali Institute of Science and Technology, Nellore through **External funding of Rs 94,100/-** by ISTE AP Section through JNTUA Faculty Development Cell ( Proceedings of JNTUA , Ananthapuramu bearing No C5 dated 5/12/2023)
- **As Principal, Sree Venkateswara College of Engineering , Nellore(SVCN)** Co-ordinated with Department of School Education and Samagra Shiksha – Nellore with District Educational Officer , SPSR Nellore in the Two Week Orientation to Teachers in Digital Education Technology enabled Teaching and learning with aid of Interactive Flat Panels (IFPs) with usage of BYJU’S e- content organized by AP Govt through Samagra Shiksha Project during **July 7<sup>th</sup> to 21<sup>st</sup> , 2023** in SVCN Campus

### **2022-2023**

- Convened a **ONLINE One Day IPR Awareness Program** ” on January 21<sup>st</sup> , 2023 at Sree Venkateswara College of Engineering, Nellore organized by National Intellectual Property Mission (NIPAM), Chennai sponsored by Govt of India

### **2021-2022**

- Convened a **One Day Workshop** on “**Research Paper Writing and Patents** ” on March 12<sup>th</sup> , 2022 at Sree Venkateswara College of Engineering, Nellore organized by Sree Vidyanikethan Engineering College, Tirupati sponsored by AICTE-New Delhi under Margdarshan Scheme.
- Convened a One week Faculty Development Programme on “**Outcome Based Education and NBA Accreditation Process**” during **Jan 19- Jan 23, 2022** at Sree Venkateswara College of Engineering, Nellore , organized by Sree Vidyanikethan Engineering College, Tirupati sponsored by AICTE-New Delhi under Margdarshan Scheme.

## **2019-20**

- Convened a 2 day Workshop on “**REVIT MEP Software for Mechanical Engineering Applications**” during **March 19-20 ,2020** for IV ME &EEE students/faculty through resource trainer from “CADDPRO ”, Hyderabad organized in Sri Mittapalli College of Engineering, Tummalapalem.
- Convened a 3 day Workshop on “**Real Time Andro-humanoid Robotics**” during **September 26-28 ,2019** for II/III/IV ME &EEE students through resource trainers from “Robocoupler ”, Vizag organized in Sri Mittapalli College of Engineering, Tummalapalem.
- Organized a One Day Seminar on “ **Design of HVAC systems and Career Opportunities in Air Conditioning**” on **September 4<sup>th</sup> 2019** , for III/IV Mechanical Engineering Students through Resource person from Guntur Centre of Dhanush Engineering Services , Hyderabad a co-ordination unit of National Skill Development Corporation , New Delhi.
- Convened a Two-day Technical Workshop on “**Applications of NDT in Industries**” to II/IV Year B Tech Mechanical Students through VIDAL NDT – Vijayawada in Sri Mittapalli College of Engineering , Thummalapalem during **August 21 – 22 , 2019**.

## **2018-19**

- Convened a 7 day Workshop on “**Design and Fabrication of GO KARTS**” during **August 13 -21 ,2018** for III year Mechanical Engineering students through resource persons from “Imagine to Innovate” , Guntur organized in PRAGATI Engineering College, Surampalem.

## **2017-18**

- Convened a Two-day Technical Workshop on “**Applications of NDT in Industries**” to IV Year B Tech Mechanical Students through VIDAL NDT – Vijayawada in PRAGATI Engineering College , Surampalem during **September 21 – 22 , 2017**.

## **2011-12**

- Organised a One-day National Seminar on Quality in Engineering Education through Centre for Quality & Excellence, Regency Institute of Technology, Yanam on 21-11-2011.

## **2006-07**

- Organised a one week AICTE- ISTE Short term training Programme on Refrigeration & Air Conditioning during March 21-27, 2007 at Bannari Amman Institute of Technology, Sathyamangalam with sponsored fund of **Rs 90,000/-** by ISTE , New Delhi.

- Organised a two week Faculty Development Programme on Applied Thermodynamics during May 22- June 3, 2006 at Bannari Amman Institute of Technology, Sathyamangalam with sponsored fund of Rs 25,000/- by Anna University, Chennai.

## 2001-02

- Conducted a three day Short term course titled REFCON 2002 , at Bannari Amman Institute of Technology, Sathyamangalam during Nov 2002 in co-ordination of technical equipment/personnel from Voltas Limited, Air Conditioning division, Coimbatore

## 1999-2000

- Organised a refresher course on Mech Engg. Concepts on Thermal Engg. Equipments for the working personnel of Chemplast Sanmar Industries, Mettur & Berigai, under the Industry- Institute interaction programme of Adhityamaan College of Engg., Hosur during April –May 2000.

## TRAININGS AND SEMINARS ATTENDED ONLINE

( 2 Week -3; 1 week -7; 3 day -2; 2 day -11; 1 day -3)

| ONLINE CERTIFICATION PROGRAMMES of FDPs/Webinars/Workshops/STTPs/Conferences attended |                       |       |   |        |  |  |
|---|-----------------------|-------|---|--------|--|--|
| S. No.  | Name of the Faculty   | Dept. | Name of the ONLINE Training Programme/Seminar/workshop/conference/ FDP attended                                     | Venue  | Date/s of the event  | Organized by   |
| 1   | Dr<br>P.KUMAR<br>BABU | MECH  | ONE Day Webinar on Introduction to Design of Experiments  | ONLINE | 27 May 2020  | Arasu Engg College, Chennai, T.N                           |
| 2   |                       |       | ONE Day Webinar on Drafting and Publication of Research Articles in Peer Reviewed Journals                          |        | 16 May 2020  | SMCE , Tummalapalem, A.P                                   |
| 3   |                       |       | ONE Day Workshop on Research Scopes in Mechanical Sciences  |        | 7 May 2020   | C I T, Chennai, T.N  |
| 4   |                       |       | A ONE Day Webinar on connecting Engineers to MEP Industry   |        | 27 May 2020  | Dhanush Engg Services India Pvt.Ltd., Hyderabad, Telangana |
| 5   |                       |       | A ONE Day Webinar on Fourth Industrial revolution and Paradigm shift in Manufacturing                               |        | 8 May 2020   | K I T, Coimbatore, T.N                                     |
| 6   |                       |       | ONE Week Refresher Course on THERMODYNAMICS   |        | 8-13 June 2020   | Ramachandra Engineering College, Eluru, A.P                |
| 7   |                       |       | 3 Day FDP on NBA Processes  |        | 8-10 May, 2020   | N E C, Narsaraopet, A.P                                    |
| 8   |                       |       | One Day Webinar on Evolution of Connected Industries  |        | 23 May, 2020   | N E C, Narsaraopet, A.P                                    |
| 9   |                       |       | THREE Day Workshop on Industrial Robotics and Manufacturing   |        | 28-30 May, 2020  | SMCE , Tummalapalem, A.P                                   |
| 10  |                       |       | Two Day International Conference Advanced Computing and Ingenious Technology in Engineering Science (ICACITES-2021) | ONLINE | 30-31 Dec, 2021  | Galgotia Institute, Noida, New Delhi                       |
| 11  |                       |       |   |        | A One Day Online Awareness program on Intellectual Property Rights (IPR) (only |  |

|    |                       |      |  |        |   |  |
|----|-----------------------|------|--|--------|---|--|
|    |                       |      | participated)  |        |   |  |
| 12 | Dr<br>P.KUMAR<br>BABU | MECH | A ONE Day Webinar on <b>Confidential Computing : Approach and Solutions through Technology</b>                         | ONLINE | 23 Nov , 2022                                       | Intel Unnati Ignite , Bangalore                                |
| 13 |                       |      | A one Week Faculty Development Program on <b>Advanced Technologies for Emerging Research in Mechanical Engineering</b> | ONLINE | 5 <sup>th</sup> Dec to 9 <sup>th</sup> Dec , 2022   | Annamacharya Institute of Technologfy & Sciences, Rajampet, AP |
| 14 |                       |      | A one Week Faculty Development Program on <b>“Innovations in Mechanical Engineering”</b>                               | ONLINE | 26 <sup>th</sup> Dec to 30 <sup>th</sup> Dec , 2022 | Vasireddy Venkatadri Institute of Technology, Nambur, AP       |
| 15 |                       |      | A One Day Online Awareness program on <b>Intellectual Property Rights (IPR)</b> ( organized and participated)          |        | 21 <sup>st</sup> January , 2023                     | NIPAM, Intellectual Property Office, India                     |

### **TRAININGS/ SEMINARS ATTENDED DIRECTLY IN VENUES(Offline)**

( 2 Week -4; 1 week -8; 3 day -2; 2 day -13; 1 day -4)

- As Professor In-charge of EISC , Geethanjali Institute of Science and Technology, Nellore , Attended a **TWO Day Interactive Workshop** on Start Ups conducted by AIC-SKU Confederation , in Sri Krishna Devaraya University , Ananthapuramu during 9<sup>th</sup> and 10<sup>th</sup> , March 2024.
- Attended as **Resource Expert** for the Two Week Department of School Education with District Educational Officer , SPSR Nellore in the Two Week Orientation to Teachers in Digital Education Technology enabled Teaching and learning with aid of Interactive Flat Panels (IFPs) with usage of BYJU’S e- content organized by AP Govt through Samagra Shiksha Abhiyaan Project during July 7<sup>th</sup> to 21<sup>st</sup> , 2023 in **Sree Venkateswara College of Engineering , Nellore SVCN Campus**
- Attended as College level Chief Incharge of Entrepreneursip , Innovation and Start Ups Centre (EISC) of Sree Venkateswara College of Engineering , Nellore for the ONE Day Workshop on “ Road MAP and Action Plan for EISCs in AP” organized Quality Assurance Cell (QAC), APSICHE on 9<sup>th</sup> June 2024 at VIT-AP University, Amaravati.
- Attended a One Day “ **Educational Leadership and Skill Development Summit**” conducted by National Council of Education of ASSOCHAM on **26<sup>th</sup> May, 2023** in the 16<sup>th</sup> International ASSOCHAM Educational summit held in Hotel Shangri-La, New Delhi.
- Attended a TWO Day Workshop on “ **NBA Process Awareness Tier II Criteria and SAR Documentation**” conducted during **March 24,25 2023** by External Resource Persons Program on NBA awareness conducted for SVCN Faculty in SVCN Campus.

- Attended a **One Day** Workshop on “**Research Paper Writing and Patents** ” on **March 12<sup>th</sup>, 2022** at Sree Venkateswara College of Engineering, Nellore organized by Sree Vidyanikethan Engineering College, Tirupati sponsored by AICTE-New Delhi under Margdarshan Scheme.
- Attended a **One week** Faculty Development Programme on “**Outcome Based Education and NBA Accreditation Process**” during **Jan 19- Jan 23, 2022** at Sree Venkateswara College of Engineering, Nellore , organized by Sree Vidyanikethan Engineering College, Tirupati sponsored by AICTE-New Delhi under Margdarshan Scheme.
- Attended a **One Week FDP** on “**Internet of Things (IOT)**” during **15<sup>th</sup> to 21<sup>st</sup> December 2019** at Sri Mittapalli College of Engineering,Guntur in association with E&ICT Academy, NIT Warangal , Telangana .
- Attended a **Two Day International Conference on Recent Trends in Applied Engineering and Management (ICRTAEM-2019)** organized by Sri Mittapalli College of Engineering,Tummalapalem, Guntur, Andhra Pradesh during **15<sup>th</sup> -16<sup>th</sup> November 2019**.
- Attended a **One Week FDP** on “**Outcome Based Education(OBE)**” during **24<sup>th</sup> to 29<sup>th</sup> August 2019** at Sri Mittapalli College of Engineering, Tummalapalem, Guntur in association with E&ICT Academy, NIT Warangal , Telangana .
- Attended a **Two Day International Conference ICLIET 2018** during **15th to 16th June 2018** at LENDI Institute of Technology , Vijayanagaram and presented a Technical paper .
- Attended a **Two Day Tech Fest VEDA** during **15<sup>th</sup> to 16<sup>th</sup> September 2017** at ADITYA College of Engineering , Surampalem and acted as a Judge for Technical Posters and Student Projects.
- Attended a **Two Week FDP** on “**Entrepreneurship Development**” during **7<sup>th</sup> to 19<sup>th</sup> August 2017** at PRAGATI Engineering College conducted by National Institute for Micro, Small and Medium Enterprises (ni-msme), Hyderabad sponsored by DST, Govt. Of India.
- Participated in a **Two Day National Consultation** on the Role of Science and Technology in National Development(NCST ND) organized by ISCA – Tirupati Chapter at Siddhartha Institute of Science and Technology , Puttur during **MARCH 21-22, 2017**.
- Participated in a **Five Day 104<sup>th</sup> National Convention** on the Role of Science and Technology for National Development organized by ISCA in Sri Venkateswara University, Tirupati during **January 3-7, 2017**
- Attended a **Two Week FDP** on “**Effective Teaching**” during **8<sup>th</sup> to 21<sup>st</sup> December 2016** at VEMU Institute of Technology, P.Kotha Kota.

- Attended a One Week FDP on “**Quality Teaching**” during 17<sup>th</sup> to 22<sup>nd</sup> December 2015 at VEMU Institute of Technology, P.Kotha Kota.
- Attended a **Two Day** Workshop on “Consultancy Awareness” organized by Industrial and Technical Consultancy of Tamil Nadu(**ITCOT**), Tamil Nadu at Sankritha Vidyaa Peeth, Tirupati during 25<sup>th</sup> and 26<sup>th</sup> April 2015.
- Attended **Two day** International Workshop on “Role of Material Science in Engineering and Medicine” organised at Krishna Theja Technical Campus, Tirupati during 1<sup>st</sup> and 2<sup>nd</sup> October 2013.
- Completed Academic Leadership Level 1 certification by participating in the **three day** Academic Leadership workshop conducted by Wipro Mission 10X from WIPRO, Hyderabad Division during January 23-25, 2012.
- Attended a **two day** UGC sponsored workshop for Principals held from 22-11-2011 to 23-11-2011 organized by Academic Staff College, Pondicherry University, Puducherry.
- Participated in a **seven day** XX Capacity Building Programme for Institutional Leaders during October 17-23, 2011 conducted by Indian Institute of Education, Pune.
- Attended a **three day** Workshop on ‘Fluidised Bed Technology’ conducted at Vellore Institute of Technology, Vellore.
- Attended a **three Day** Workshop on ‘Alternate refrigerants& cycles’ conducted at Anna University, Chennai.
- Attended a **two day** course on ‘Internal Quality Auditor Training’ by Zandig TQM Solutions, Coimbatore at BIT, Sathy.
- Attended a **two day** National Conference on Refrigeration & Air Conditioning during 29-30 August, 2002 at Chennai organised by CII, Chennai.
- Attended a **two day** National Seminar & 36<sup>th</sup> Annual ISTE Convention on the Session of Social Responsibility : Women Empowerment in Higher Education and Training during December 14-16, 2006.
- Attended a **two day** National Conference on Future Trends in Mechanical Engineering – R& D during 13-14 December, 2002 at Chennai organised by Bharat Institute of Science & Technology, Chennai.
- Attended a **one week** AICTE sponsored QIP Programme on Fundamentals of Cryogenic Technology at II Sc ,Bangalore during 17-21, Nov 23,2003
- Attended **one week** Faculty Development Programme on Engineering Thermodynamics during May 02-07 , 2005 at IRTT , Erode
- Attended **two week** Faculty Development Programme on Thermal Engineering during December 05 -17, 2005 at IRTT, Erode

- Attended a **One day** National Workshop on “Prospects of Renewable Energy Sources for Rural Development” on 18<sup>th</sup> December, 2004 at Dr Mahalingam College of Engineering & Technology, Pollachi.

#### **Participation in Social Responsibility Activities(CSR)**

- Participated in Voluntary Blood Donation camp and Mobilized Donors in the Camp Organized in VEMU Institute of Technology on 7<sup>th</sup> November, 2015 sponsored by Govt. of Andhra Pradesh.
- Organized post De-Monitization Cashless Transaction awareness in the rural areas of Puthalapattu and Pakala with the help of VEMU students as per the guidelines of JNTU Anantapur.
- Participated in a Rally of Tree plantation along with Eco-club and NSS volunteers in Surampalem during World Environment Day on 5<sup>th</sup> June 2017 representing PRAGATI Engineering College.

#### **CERTIFICATIONS AND LICENSES**

- Certified as **Internal Auditor** for ISO 9001:2000 by Zandig TQM Solutions, Coimbatore.
- Evaluated Ph D Thesis of Scholar of Karpagam University, Coimbatore
- Evaluated Ph D Thesis of Scholar of Rabindranath Tagore University, Bhopal
- Research Supervisor Approval for JNTUA/JNTUK/Anna University-Coimbatore
- Question Paper setting/Exam Scripts valuation done for following

##### **Tamil Nadu**

- 1.SASTRA University
2. Karunya University
3. Avinashalingam University
4. Sathyabama University
5. Anna University
6. Annamalai University

##### **Pondicherry**

Pondicherry college of Engg

##### **Andhra Pradesh**

1. Jawaharlal Nehru Technological University, Kakinada/Anantapur/Hyderabad
2. Acharya Nagarjuna University

#### **FELLOWSHIPS AND PROFESSIONAL AFFILIATIONS**

- Life Member (**LM45567**)of Indian Society for Technical Education (ISTE), New Delhi.
- Member of Indian Society for Heating , Refrigeration and Air Conditioning Engineers (ISHRAE), Chennai Chapter, Tamil Nadu, India. (**MEMBERSHIP No : 16772**)
- (FIE)Fellow of the Institution of Engineers(India): **F-118983-9**,  
Tirupati Local Centre
- Member- Centre for Education Growth and Research, New Delhi:  
Membership Number: **CEGR/LT/2016/LQ**
- Life Member—**Indian Science Congress Association (ISCA)**,  
New Delhi: Membership Number : **L30239**

- Member of the **American Society of Mechanical Engineers (ASME)**: Membership Number : **102070559**

## AWARDS/CITATIONS /RECOGNITIONS

### 2022-2023

- Recognized as **VALUED Reviewer and QUALITY Contributor in SUCCESS** of International Journal of Engineering Research & Technology (IJERT) with ISSN 2278- 0181 with registration number IJERTTREW4846 dated 22<sup>nd</sup> Jan 2023.

### 2019 – 2020

- Awarded “**Acharya Excellence Academic Leadership Award 2020**” for the 10 years of Academic Leadership as Principal and HOD-Mech in Engineering Institutions from 2011 to 2020 by SPNS Technologies Pvt., Ltd., Hyderabad during the Academic Meet 2020 (AEA Awards 2K20) on Feb 7<sup>th</sup>, 2021 at Hyderabad.

### 2014-2015

- Awarded as the “**Outstanding Faculty in Mechanical Engineering**” for Academic Teaching and Research in the field of Mechanical Engineering by **Venus International Foundation, Chennai** during Venus International Foundation Contemporary Academic Meet 2015(VIFCAM 2K15) on July 5<sup>th</sup>, 2015 at Chennai.

## COMPUTER LITERACY

- Platform : MS-DOS, Windows 2007& XP,
- CAD Packages : CATIA V5; Pro E
- Drafting Packages : AutoCAD ; ANSYS; Automation and Customization

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## PERSONAL DATA

Age : 53 years  
Date of Birth : First August, Nineteen hundred and Seventy (01-08-1970)  
Gender : Male  
Civil Status : Married  
Height : 176 cms  
Weight : 94 kgs  
Nationality : Indian  
Religion : Hindu  
Passport Details : No. T0926092; Date of issue: 24-04-2019  
Date of expiry: 23-04-2029

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( P.KUMAR BABU