

## P R O F I L E



1. Full Name : **POTLURI RAVINDRA BABU**
2. Designation : **Professor of Mechanical Engineering & Advisor to the Management**
3. Office Address, Tel & Fax : **Gudlavalleru Engineering College**  
Seshadri Rao Knowledge Village  
Gudlavalleru – 521 356,  
Ph: 08674-273737, 7799865865, 9441061772
4. Email Address : prbabu1961@gmail.com
5. Date of Birth : 10-08-1960
6. Father's Name : P. L. NARAYANA RAO

### 7. EDUCATIONAL QUALIFICATIONS:

Qualifications	University	Name of the College	Specialization	Year of Pass	Division
Ph.D.	JNTU, Hyderabad	JNTU, Hyderabad	Production	2012	-
M.Tech	JNTU, Hyderabad	JNTUK, Hyderabad	Machine Design	2004	Distinction
M.S	BITS Pilani	BITS Pilani	Technological Operations	1997	First Class
B.Tech	Nagarjuna University	V.R. Siddhartha Engg. College	Mechanical	1983	First Class

### 8. PROFESSIONAL SERVICE: 37 Years

Sl. No.	Employer	Position Held	Period
1	Gudlavalleru Engineering College, Gudlavalleru	Professor of Mechanical Engineering and Advisor to the Management	01-12-2020 to till date
2		Principal	November 2017 to 30-11-2020
3		Professor of Mechanical Engg., Vice Principal and Dean Student Affairs	June 2012 to November 2017
4		Professor of Mechanical Engg. And Dean Student Affairs	August 2006 to June 2012
5		Professor and Head Department of ME	July 2005 to August 2006
6		Associate Professor and Officer-In-charge Student Affairs	August 2004 to July 2005
7		Associate Professor and Head In-charge	August 2000 to July 2004
8	AANM & VVRSR Polytechnic, Gudlavalleru	Head of the Department, Mechanical Engineering	February 1992 to August 2000
9		Lecturer and Head In-charge	December 1987 to January 1992
10		Associate Lecturer and Head In-charge	October 1983 to November 1987

## 9. PROFESSIONAL ACCLAIM:

1. “**Engineer of the Year award**” for the year 2012 by the government of AP and the Institution of Engineers (I) AP State centre for the best Contribution in the field of Engineering.
2. **ISTE - ANNA UNIVERSITY NATIONAL Award** for outstanding academic from degree level technical institutions for the year 2011.
3. Received appreciation letter from Regional Director RCMA, DRDO, Hyderabad regarding project thesis for publication of **BURNISHING MAPS** for the first time in International Literature on 9<sup>th</sup> September 2011
4. **ISTE - RAJA RAMBAPU PATIL NATIONAL AWARD** for the best Promising Engineering Teacher among Polytechnics for the year 1998.
5. Received **Certificate of Appreciation** for Rendering Commendable Professional Service through ISTE in 2014.
6. Received **Certificate of Appreciation** award for having instituted **National award** for the best Private Engineering College under the name of mentor in 2014.
7. Received **Certificate of Appreciation** from **Lion’s Club international District (316)** on the eve of Engineers Day (15-09-2017).
8. Received **Certificate of Excellence** from The Institution of Engineers (I), Andhra Pradesh State Center, Vijayawada for the valuable services rendered in the field of Mechanical Engineering on 11<sup>th</sup> August 2018.
9. Received **Certificate of Appreciation** from **The Institution of Engineers (I)**, Andhra Pradesh State Center, Vijayawada on the eve of Engineers Day (15-09-2018).
10. Received **Certificate of Excellence** from The Institution of Engineers (I), Andhra Pradesh State Center, Vijayawada for the services rendered in the field of Academics on 17<sup>th</sup> May 2019 (World Telecom Day).
11. Received Vocational Excellence Award from Rotary Club of Gudivada, Krishna District, A.P. in recognition of Outstanding Contribution in his vocation for maintaining exemplary standards in Academics, use of Technology, Cultural inclusion, Social Awareness and Building the Future of Young Generations on 30-01-2021.

## 10. PROFESSIONAL ORGANISATIONS:

### Memberships:

- Fellow of the **Institution of Engineers (India)** since 2006. (F/111548/7)
- Chartered Engineer in **IE(I)**, since 1995.
- Life Member in **ISTE**, since 1988. (LM-2306)
- Life Member in **Solar Energy Society of India** since 1999. (LM-0909)
- Life member in **American Society of Mechanical Engineers (USA)** since 2001 (M-07291818).
- Member in **Society for Failure Analysis, DRDO** since 2015.
- Member in **Indian Institute of Metals** since 2016.
- Member in **Society of Automotive Engineers** since 2009. (in 2019 - 7190410516)

## **Positions Held:**

- Elected as Member, National Executive Council, **ISTE, New Delhi** for a period of 5 Years from 2020 to 2024.
- Elected as Executive Council Member in **IE (I) Vijayawada** local center for the period 2000-02, 2002-04, 2004-06, 2006-08, 2008-2010, 2010-12 Mechanical Engineering Branch.
- Member In-charge students counseling in **IE (I) Vijayawada** local center for the period 2006- 08
- Elected as Section Managing Committee Member, **ISTE A.P. Section** for the Period 2006-08.
- Elected as State Committee Member in **Institution of Engineers (I) Andhra Pradesh** in Mechanical Division 2008-2010.
- Elected as Member of the National Executive Council of **Indian Society for Technical Education (ISTE)** New Delhi for the term 2009-2011.
- Elected as State Committee Member in **Institution of Engineers (I) Andhra Pradesh** in Mechanical Division 2010-2012.
- Elected as Member of the National Executive Council of **Indian Society for Technical Education (ISTE)** New Delhi for the term 2012-2014.
- Elected as Chairman, **IE(I) Vijayawada Local Centre** for the session 2012-2014.
- Elected as Member in National Council **IE(I) Kolkata** for the session 2012-2014.
- Elected as State Committee Member in **Institution of Engineers (I) Andhra Pradesh** in Mechanical Division 2014-2016.
- Elected as Section Managing Committee Member, **ISTE A.P. Section** for the Period 2015-19.
- Nominated as Member NSS Advisory committee of JNTUK, Kakinada in 2012.
- Member Engineering Information Service Committee (IEI) for the session 2013-14
- Member Mechanical Engineering Division Board (IEI) for the session 2013-14
- Member Regional Coordination Committee (IEI) for the session 2013-14
- Member Examination Disciplinary Committee, IE(I) for the session 2013-14

## **11. JOB HISTORY**

### **Present Position: Advisor to the Management**

Advisor to the Management advises the Management and Principal on Academic, Administrative and Development activities by keeping himself abreast with the latest trends in education. He shall be an active experienced person having distinguished himself in academic and administrative work. He shall be the reason for the dreams of the college and strive for their realization.

### **Previous position and brief history of Job:**

Discharged duties as Professor of Mechanical Engineering, Head of the Department, Vice-Principal, Dean Student Affairs and Principal from 29<sup>th</sup> June 2012.

#### **A. Professor of Mechanical Engineering**

#### **B. Dean Student Affairs:**

- i) Student Facilities
- ii) Student Counseling
- iii) Extra-Curricular activities
- iv) Students' Discipline
- v) Alumni Information

### **C. Vice Principal:**

- i) To officiate the Principal's responsibilities in the latter's absence.
- ii) To carry out the specific duties assigned by the college Management Committee as and when necessary

### **D. Principal:**

Looked after administrative affairs, academic correspondence with statutory bodies like AICTE, State Government, JNTUK, Helping the management in policy matters, Research and Consultancy guidance, Recruitment of faculty and supporting staff, student placements, examinations, etc.

Liaison with University for all academic and administrative activities.

Motivation all the departments to conduct conferences, Zero ragging in the campus by implementing several student measures including frequent counseling.

### **D. Chief Warden (Boys and Girls Hostels)**

### **E. Member in**

- i) College academic Committee
- ii) College Management Committee
- iii) College Academic Council
- iv) Governing Body
- v) IQAC

## **12. PROFESSIONAL COMPETENCE:**

### QIP Programs and Conferences Attended:

1. Attended an intensive full time (6 Weeks) course on Programming and Programming Methodology of Diploma in Computer Applications Teachers Training Program sponsored by Government of India, dept. of Electronics from June 1 to July 12, 1988.
2. Attended an intensive full time (6 Weeks) course on Computer –Oriented Mathematical Methods of Diploma in Computer Applications Teachers Training Program sponsored by Government of India, Department of Electronics from May 22<sup>nd</sup> to June 30<sup>th</sup>, 1989.
3. Participated in the course on subject updating in Modern Production Processes sponsored by TTTI, Madras during 18<sup>th</sup> – 29<sup>th</sup> January 1993.
4. Attended Summer School on Alternate Fuels for Automobiles, at Nachimuthu Polytechnic, Pollachi, sponsored by ISTE, New Delhi from 15<sup>th</sup> to 26<sup>th</sup> May 1995.
5. Participated in National Seminar on Strategic Planning for Development of Technical Institutions, organized at REC, Warangal, on 3<sup>rd</sup> & 4<sup>th</sup> March 1996.
6. Participated in the AICTE / ISTE Summer School on Computer Aided Design & Manufacture Organized at PSG, POLYTECHNIC, Coimbatore.
7. Participated in National Seminar on “Management of Technical Education in the 21<sup>st</sup> Century” held at Kongu Engineering College, Erode during 10<sup>th</sup> - 12<sup>th</sup> December 1999.
8. Participated in STTP on “Computer Aided Manufacturing” sponsored by AICTE, New Delhi at M.S. University of Baroda, Vadodara during 5<sup>th</sup> - 17<sup>th</sup> June 2000.
9. Participated in “Indian Engineering Congress” seminar on “Role of Engineers in e-Governance” organized by institution of Engineers (India) at Hyderabad during 18<sup>th</sup> - 22<sup>nd</sup> December 2000.

10. Participated in National Renewable Energy Convention during 27<sup>th</sup> - 29<sup>th</sup> Dec. 2001 at Hyderabad, organized by SESI.
11. Participated in International Seminar on Metal Forming, Casting, and Heat Treatment at IISE, Bangalore during 21<sup>st</sup> - 22<sup>nd</sup> September 2002.
12. Attended the national workshop on “Simulation of Manufacturing Systems” Organized by NIT, Warangal during 7<sup>th</sup> - 9<sup>th</sup> October 2004.
13. Organized National Seminar GEMSMEET 2k4 during 23<sup>rd</sup> - 24<sup>th</sup> December 2004 as Coordinator.
14. Organized One-day workshop on “Energy Conservation” on 1<sup>st</sup> September, 2005 as Coordinator.
15. Participated in Faculty Development program on “Effective Teaching Methodology” organized by ISTE AP Section at JNTU, Masabtank, Hyd during 26<sup>th</sup> - 30<sup>th</sup> June 2006.
16. Organized Faculty development program on “Instructional Design and Delivery” by NITTTR, Chennai as program Coordinator at Gudlavalleru Engineering College, Gudlavalleru during 3<sup>rd</sup> - 8<sup>th</sup> July 2006.
17. Organized State Level ISTE Two-day Refresher Course on “Teaching Methodology” at VRS Engineering College, Vijayawada as Course Coordinator during 8<sup>th</sup> - 9<sup>th</sup> Dec.2006.
18. Organized First Convention of ISTE at VRS Engineering College, Vijayawada as Program Coordinator on 10<sup>th</sup> December 2006.
19. Organized One-day training program on “Career Counseling” by NITTTR, Chennai as program Coordinator at Gudlavalleru Engineering College, Gudlavalleru on 20<sup>th</sup> January 2007.
20. Organized One-day training program on “Student Feedback and Performance Appraisal” by NITTTR, Chennai as program Coordinator at Gudlavalleru Engineering College, Gudlavalleru on 17<sup>th</sup> February 2007.
21. Organized a program on “Guidance and Counseling for Teachers on their Counseling, Individually” by NITTTR, Chennai as program Coordinator at Gudlavalleru Engineering College, Gudlavalleru from June 30<sup>th</sup> to July 1<sup>st</sup> 2007.
22. Participated in the workshop on “**Composite Materials: Fundamentals, Design and Applications**” organized by Mechanical Engineering Department, National Institute of Technology, Warangal, during 29<sup>th</sup> -30<sup>th</sup> November 2007.
23. Participated in the AICTE sponsored Three Day National Seminar on “Applications of Optimization Techniques in Mechanical Engineering” organized by Mechanical Engineering Department, Gudlavalleru Engineering College, Gudlavalleru, during 18<sup>th</sup> – 20<sup>th</sup> January 2008.
24. Prof. P. Ravindra Babu attended a One Week Short Term Training Program on “Mechatronics” organized by the Institution of Engineers (India), AP State Centre, Hyderabad from 16<sup>th</sup> - 20<sup>th</sup> June 2008.
25. Participated as National Executive Council member in the “93<sup>rd</sup> meeting of Executive Council of ISTE” organized by Yeshwantrao Chavan College of Engineering, Nagpur during 21<sup>st</sup> February 2009.
26. Prof. P. Ravindra Babu attended a One Week Short Term Training Program on “Quality Assurance and NBA Accreditation in Technical Institutions (AICTE Sponsored Summer School)” organized by the NITTTR, Chendigarh from 20<sup>th</sup> - 24<sup>th</sup> July 2009.

27. Acted as convener for the ISTE State Level Fourth Annual Convention and Awards Function on the theme of “Learning Enhancement through Information and Communication Technology” sponsored by Gudlavalleru Engineering College, Seshadri Rao Knowledge Village, Gudlavalleru during 21<sup>st</sup> – 22<sup>nd</sup> November 2009.
28. Participated as National Executive Council member in the ISTE National Convention on “**Managing Technical Education for Leveraging Innovation and Entrepreneurship**” organized by National Institute of Technology Karnataka at Surathkal during 18<sup>th</sup> - 20<sup>th</sup> December 2009.
29. Participated as State Committee Member in the IE(I) National Seminar on “Urban Transportation – Issues of Solutions” organized by IE(I) Tirupathi Local Centre at SVU College of Engineering, Tirupathi on 30<sup>th</sup> January 2010.
30. Participated as National Executive Council Member in the ISTE National executive council meeting and participated inauguration of Skill Development Centre at National Institute of Technology Agarthala, Tripura during 14<sup>th</sup> -16<sup>th</sup> May 2010.
31. Participated as National Executive Council Member in the ISTE 5<sup>th</sup> Annual Convention and Awards Function at VNR Vignana Jyothi Institute of Engineering & Technology, Hyderabad on 23<sup>rd</sup> October 2010.
32. Inaugurated the ISTE chapter at Mother Teresa Institute Of Science And Technology, Sathupally and gave a lecture on “Effective Teaching Methodology & Ethical Values” on 11<sup>th</sup> November 2010.
33. Delivered a guest lecture on “Teaching Methodology and Professional Ethics” at K.G. Reddy College of Engineering and Technology, Chilkur, Moinabad Mandal, RR Dist. on 22<sup>nd</sup> November 2010.
34. Delivered a lecture on “Enhanced Energy Efficiency – Integrated System Approach” as invited speaker to the All India Seminar on Enhanced Energy Efficiency’ at The Institution of Engineers (I), Kharathabad, Hyderabad on 23<sup>rd</sup> November 2010.
35. Conducted a series of experiments on “Evaluation of Microstructure and Micro Hardness on Burnished surfaces of 5 different Engineering Materials of varied base Hardness / Strength at Regional Centre for Military Airworthiness (Materials), DRDO, Hyderabad during April 27<sup>th</sup> – July 27<sup>th</sup> 2011.
36. Inaugurated the ISTE chapter at D.N.R. Engineering College Bhimavaram and gave a lecture on “Professional Ethics in Engineering Education” on 1<sup>st</sup> October 2011.
37. Participated in the Two-day all India Workshop on “***The best Inter5national Practices in Production*** ” organized by The Institution of Engineers (I) Vijayawada Local Central, during 5<sup>th</sup> -6<sup>th</sup> November 2011.
38. Participated as National Executive Council member in the ISTE National Convention on “Role and Relevance of Regulatory Bodies in Higher Education” organized by Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, Punjab during 16<sup>th</sup> -18<sup>th</sup> December 2011.
39. Organized state level, a Two-Day workshop on “Best Practices in Production” by Department of Mechanical Engineering Gudlavalleru Engineering College Gudlavalleru as Convener 20<sup>th</sup> - 21<sup>st</sup> July 2012.
40. Organized a Two-Day workshop on “Entrepreneurship Awareness Camp for Students (EACS)” sponsored by ISTE ,New Delhi, Organized by ISTE Student Chapter(AP20) Gudlavalleru Engineering College, Gudlavalleru as Convener 1<sup>st</sup> - 2<sup>nd</sup> September 2012.

41. Delivered Chairman's Address on The 35<sup>th</sup> Annual General Meeting at Dr.K.L.Rao Bhavan, IE(I) Vijayawada Local Centre on 31<sup>st</sup> October 2012.

**13. PAPERS PRESENTED: (Conferences: 21, Journals: 34)**

**National Conferences:**

1. A Paper on "***Blank Holding Force –A vital Parameter in Governing Productivity of Deep Drawing Process***" was presented in National Conference on Design Simulation and Modeling of Mechanical Systems at JNTU College of Engg., Kakinada on 7<sup>th</sup> May 2004.
2. A Paper on "***Optimum Blank Holding Force in Deep Drawing Process through Finite Element Simulations using Deform-2d***" was presented at National Conference on State of the Art of Technologies in Mechanical Engineering (NCSAME-2004) held at JNTU College at Engineering, Hyderabad during 29<sup>th</sup> – 30<sup>th</sup> June 2004.
3. A Paper on "***Thermodynamic Analysis of Rankine Cycle with Feed Water Heaters***" was presented in National Conference on Design Simulation and Modeling of Mechanical Systems at JNTU College of Engineering, Kakinada on 8<sup>th</sup> May 2004.
4. A Paper on "***Energy Analysis of Co-generation Power Cycle***" at National Conference on State of the Art of Technologies in Mechanical Engineering" (NCSAME-2004) held at JNTU College of Engineering, Hyderabad during 29<sup>th</sup> – 30<sup>th</sup> June 2004.
5. A Paper on "***Technical Man Power – A Perspective Study***" at National Seminar on "Technical Man Power Planning in India – Issues & Concerns" held at JNTU, Hyderabad during 5<sup>th</sup> to 7<sup>th</sup> September 2004.
6. A Paper on "***Generalized Mathematical Model for Thermodynamic Analysis of Rankine in cycle with Reheating and Regeneration***" at National Conference on Emerging Trend in Mechanical Engineering held at B.M.S. College of Engineering, Bangalore on 10<sup>th</sup> to 11<sup>th</sup> February 2006.
7. A Paper on "***Composite Materials - An Overview***" at National Conference on Emerging Trend in Mechanical Engineering held at B.M.S. College of Engineering, Bangalore on 10<sup>th</sup> & 11<sup>th</sup> February 2006.
8. A Paper on "***Design of Weldments for Manufacturability***" at National Conference held at BITS Pilani on 25<sup>th</sup> & 26<sup>th</sup> February 2006.
9. A paper on "***Techno Managers***" at Givan Jyoti Institute of Management & Technology, Chandigarh on 30<sup>th</sup> March 2006.
10. A Paper on "***Shaping Student as a Professional***" at National Conference on Best Practices in Engineering Education, organized by Engineering Education Foundation Society, Pune in Association with Singhad Technical Education Society's Engineering Institute, Pune, Maharashtra conducted during 2 - 3 February 2007.
11. A Paper on "***Practice for Lively Teaching-Learning Experience***" at National Conference on Best Practices in Engineering Education, organized by Engineering Education Foundation Society, Pune in Association with Singhad Technical Education Society's Engineering Institute, Pune, Maharashtra conducted during 2 - 3 February 2007.
12. A Paper on "***Static Analysis of Thick Simply Supported FRP Composite Circular Plates Using Finite Element Method***" a National conference on Recent Trends And Breakthrough Development in Mechanical Engineering, held Bhilai Institute of Technology, Durg during 16<sup>th</sup> -17<sup>th</sup> March 2007.
13. A paper "***External Roller Burnishing on Surface Roughness and Hardness of EN-31 Alloy Steel***" presented in 22<sup>nd</sup> National Convention of Metallurgical and Materials

Engineers and National Seminar on “Advanced Materials: Characterization and Processing” organized by Institution of Engineers, Hyderabad during 23–24 Jan. 2009.

14. A paper on “**Enhanced Energy Efficiency – Integrated System Approach**” presented in The All India Seminar on ‘Enhanced Energy Efficiency’ at The Institution of Engineers (I), Kharathabad, Hyderabad on 23<sup>rd</sup> November 2010.
15. A paper on “**Experimental analysis on Burnished composite material Rayon based carbon Phenolic Resin**” presented in 16<sup>th</sup> ISME Conference on Mechanical; Engineering for Sustainable Development organized by IIT Delhi during 2 – 4 December 2010.

### International Conferences:

1. A paper on “*Management Education at Crossroads-Issues Challenges and Opportunities*” at International Conference Organized by AIMS International & IIM , Ahmedabad at IIM , Ahmedabad during 1<sup>st</sup> to 4<sup>th</sup> January 2006.
2. A Paper on “*Thermo Elastic Analysis of Thick Multilayered Composite Plates*” at International conference on Advanced Design and Manufacturing held at Sethu Institute of Technology Kariapatti, Tamilnadu during 9<sup>th</sup> - 11<sup>th</sup> August 2007.
3. A paper “*Effect of External Roller Burnishing on Surface Roughness and Surface Hardness of Alloy steels*” presented and participated in International Conference on computational Methods in Engineering and Sciences organized by CBIT, Hyderabad during 8<sup>th</sup> – 9<sup>th</sup> January 2009.
4. A paper on “*Optimization of Burnishing parameters and evaluation of surface characteristics, Microstructure and Microhardness in AA6061 Alloy*” at Second International Conference on Advances in Mechanical, Manufacturing and Building Sciences, ICAMB-2012 in VIT University, Vellore, Tamilnadu during 9<sup>th</sup> -11<sup>th</sup> January 2012.
5. A paper on “**Development, Fabrication and Characterization of Functionally Graded AI Metal Matrix Composites Using Powder Metallurgy Method**” at international conference on Recent Advances in Materials, Manufacturing & Energy Systems, ICRAMMES-2019 in VR Siddhartha Engineering College, Vij. during 3–4 Jan.2019.
6. A paper on “**Characterization of AI-6061 Alloy Reinforcement with AI<sub>2</sub>O<sub>3</sub>, SiC, TiO<sub>2</sub> and Fly ASH Using STIR Casting**” at international conference on Recent Advances in Materials, Manufacturing & Energy Systems, ICRAMMES-2019 in VR Siddhartha Engineering College, Kanuru, Vijayawada during 3<sup>rd</sup> – 4<sup>th</sup> January 2019.

### Journal Publications:

1. A paper “**Effect of External Roller–Burnishing on the Surface Roughness and Surface Hardness of EN8 Alloy Steels**” Published in i-managers Journal of Future Engineering & Technology, Vol.4, No.1, pages 36-42, August-October, 2008 by Prof.P.Ravindra Babu, Dr. T. Siva Prasad and Dr. A. V. S. Raju.
2. A paper “**The Effect of External Roller-Burnishing on the Surface Roughness and Surface Hardness of EN-24**” Published in Journal of Manufacturing Engineering, 2008, Vol.3 issue.4, by Prof. P. Ravindra Babu, Dr.T.Siva Prasad, Dr.A.V.S.Raju
3. A paper “**Effect of Internal Roller Burnishing on Surface Roughness and Surface Hardness of Mild Steel**” Published in Journal of Scientific and Industrial Research, vol. 68, pages 29-31, January, 2009 by Prof. P. Ravindra Babu and Dr. A. Jawahar Babu
4. A paper “**Experimental Analysis of External Roller-Burnishing on the surface Roughness, Surface Hardness and Microstructure of Brass Metal**” Published in



Manufacturing Technology Today, Vol.8, issue-11, pages 19-28, November, 2009 by Prof. **P. Ravindra Babu** and Sri **K. Syam Sundar**.

5. A paper “**Experimental Analysis of External Roller-Burnishing On the Surface Roughness, Surface Hardness and Microstructure of Brass and Aluminium**” Published in International Journal of Applied Engineering Research ISSN 0973-4562 Volume 5 Number 4 (2010) pp. 729-745 by Prof.P.Ravindra Babu, Dr.T.Siva Prasad, Dr.A.V.S.Raju and Sri K.Syam Sundar.
6. A Paper “**The Effect of eternal Roller Burnishing on the surface Roughness and Surface hardness of Composite material E-Glass epoxy**” Published in International Journal of Applied Engineering Research by ISSN 0973-4562 Volume 5 Number 6 (2010) pp 923-934 by Prof. P. Ravindra Babu, Dr. T. Siva Prasad, Dr. A. V. S. Raju and Sri.V.V.Nagaraj.
7. A paper “**The effect of External Roller-burnishing on the Surface Roughness and Surface Hardness of EN31 Alloy Steel**” Published in Manufacturing Metallurgical and Materials Engineering Division Journal of Institution of Engineers(India), Vol.91, October, 2010 by Prof. P. Ravindra Babu, Dr. T. Siva Prasad and Dr. A.V.S. Raju.
8. A paper “**Effects of burnishing parameters on the surface characteristics, microstructure and micro hardness in EN series steels**” Published in International Journal of Transactions of Indian Institute of Metals (Springer) on 1<sup>st</sup> December 2011 by P.Ravindra Babu,K.Ankamma,T.Siva Prasad,A.V.S.Raju and N.Eswara Prasad.
9. A paper “**Optimization of Burnishing Parameters by DOE and Surface Roughness Microstructure Micro Hardness Characteristics of AA6061 Aluminum Alloy in T6 Condition**” published in Journal of Engineering Research and Applications ISSN: 2248-9622 Vol.2, Issue 2, March-April 2012, pp.1139-1146 by P.Ravindra Babu, K.Ankamma, T.Siva Prasad, A.V.S.Raju and N.Eswara Prasad.
10. A paper “**Optimization of Burnishing Parameters and Evaluation of Surface Characteristics, Microstructure and Micro Hardness in Brass**” Published in International Journal of Manufacturing Science and Technology by P.Ravindra Babu, K.Ankamma,T.Siva Prasad,A.V.S.Raju and N.Eswara Prasad.
11. A paper “**Optimization of burnishing parameters and determination of select surface characteristics in Engineering Materials**” Published in Sadhana, the International Journal of “Indian Academy of Science” Vol.37, Part 4, August 2012 pp. 503-530 by P.Ravindra Babu, K.Ankamma, T. Siva Prasad, A. V. S. Raju and N. Eswara Prasad.
12. A paper “**Vibrational Analysis in Condition Monitoring and Faults Diagnosis of Rotating Shaft Over View**” International Journal of Advanced Engineering, Research and Science (IJAERS) Vol-4, Issue-1, Page No. 216-220. July 2017.
13. A paper “**Experimental Investigation of Mechanical and Tribological properties of Aluminum Metal Matrix Composite (MMC) Reinforced with Alumina (Al<sub>2</sub>O<sub>3</sub>) using powder metallurgical process**”, International Journal of Advanced Research in Science, Engineering and Technology, Vol. 5, Issue 5 , May 2018, pp. 5822 – 5888.
14. A paper “**Structural and Dynamic Analysis of Six Cylinder Four Stroke Diesel Engine Crank Shaft Subjected to Various Loading Conditions**” International Journal of Latest Engineering Research and Applications (IJLERA) ISSN: 2455-7137 Volume – 02, Issue – 07, July – 2017, PP – 28-40.
15. A paper “**Investigating the Influence of Cotton Shell Ash-SIC Weight Percentage on the Mechanical Behaviour of Aluminium Alloy Based Hybrid**” Published in International Journal for Research in Applied Science and Engineering Technology,

ISSN No. 2321 – 9653, Impact Factor 7.177, Vol.7, Issue V, May 2019 by Pamarthi Harish, Veeranki Mohan Srikanth, P.Ravindra Babu and Dr. M. R. Ch. Sastry.

16. A paper “**An Investigation of Alumina Reinforcement Effect on Mechanical Properties of Al 356 Based Metal Matrix Composite**” Published in International Journal of Latest Engineering Science \*(IJLES), ISSN No. 2581 – 6659, Vol.2, Issue 3, 2019 by Pamarthi Harish, Veeranki Mohan Srikanth, P.Ravindra Babu, M. R. Ch. Sastry and K. Ch. Kishore Kumar,.
17. A paper “**Characterization of Mechanical and Tribological Properties of Aluminium Alloy based Hybrid composites Reinforced with Cotton Shell Ash and Silicon Carbide**” Published in International Journal of Latest Engineering Science \*(IJLES), ISSN No. 2581 – 6659, Vol.2, Issue 4, 2019 pp. 1-15 by Pamarthi Harish, Veeranki Mohan Srikanth, P.Ravindra Babu, M. R. Ch. Sastry, and K. Ch. Kishore Kumar.
18. A paper “**Preparation of Aluminum 6061-Zirconium Dioxide (ZrO<sub>2</sub>) MMC’s by stir casting and evaluation of mechanical properties**”, International Journal for Research & Development in Technology, Vol. 11, Issue 6, June 2019, ISSN: 2349-3585
19. A paper “**Mechanical Properties of particulate periwinkle shell – aluminum 6061 metal matrix composite produced by two-step casting**”, Journal of Emerging Technologies and Innovative Research, June 2019, Vol. 6, Issue 6, (ISSN-2349-5162)
20. A paper “**Effect of SiC and Zinc stearate on the mechanical and metallurgical characterization of functional graded material using powder metallurgy**”, International Journal for Research in Applied Science and Engineering Technology, Vol. 7, Issue 6, June 2019, ISSN: 2321-9653.
21. A paper “**Single and Multiple-crack detection in cantilever beam using discrete wavelet transform**”, International Journal of Scientific Research Engineering & Technology, Vol. 8, Issue 6, June 2019, ISSN: 2278-0882
22. A paper “**Effect of Mechanical Properties on palm sprout shell ash reinforced with Al-6061 alloy metal matrix composites**”, International Journal of scientific Research & Engineering Trends, May-June 2019, Vol. 5, Issue 3, (ISSN-2395-566X).
23. A paper “**Characterization of Stir Cast Al-6063 Alloy Based Hybrid Composite Reinforced with Quarry Dust, Fly Ash and SiC**” Published in International Journal of Mechanical and Mechanics Engineering, e-ISSN No. 2581 – 3722, Vol.5, Issue 2, 2019 pp. 32-41 by Pamarthi Harish, Veeranki Mohan Srikanth, P.Ravindra Babu, Dr. M. R. Ch. Sastry and K. Ch. Kishore Kumar.
24. A paper “**Characterization of Al-15Ni-1Mg with reinforcement of Al<sub>2</sub>O<sub>3</sub> and fly ash using powder metallurgy**”, International Journal of Latest Engineering Sciences, Vol. 02, Issue 03, May 2019, ISSN: 2581-6659.
25. A paper “**Multiple crack detection in beam structures using curvature based continuous wavelet transform**”, Journal of Emerging Technologies and Innovative Research, April 2019, Vol. 6, Issue 4, (ISSN-2349-5162).
26. A paper “**Design and Characterization of Functionally Graded Aluminum Metal Matrix with SiC Reinforcement using powder metallurgy**”, International Journal of Mechanical and Industrial Technology, Vol. 7, Issue 1, April 2019, ISSN: 2348-7593 by P.N.S. Srinivas, Dr. M. R. Ch. Sastry and Dr. P. Ravindra Babu.
27. A paper “**Modeling of leaf spring contacts by finite element approach using Lagrange multiplier method**”, International Journal of Research and Analytical Reviews, March 2019, Volume 6, Issue 1, ISSN: 2349-5138 (UGC Approved Journal).

28. A paper “**An Investigation of Alumina Reinforcement Effect on Mechanical Properties of Al 356 Based Metal Matrix Composite**”, International journal of Latest Engineering Science (IJLES), E-ISSN: 2581-6659, Volue 2, Issue 3 May-June 2019 PP 18-23 by Nagaraju Tenali, Teswawini A. C., Ravindra Babu P.
29. A paper “**Performance Evaluation of Hybrid Photovoltaic Thermal Collectors**”, International Journal for Scientific Research & Development (IJSRD). ISSN (online) : 2321-0613, Volume 7, Issue 06, June 2019 by M. Rajasekhar, P. Ravindra Babu, B. Karuna Kumar, M.R.Ch. Sastry and J.A. Ranga Babu.
30. A paper “**Tribological Characterization of Aluminium Functionally Graded Materials using different Reinforcing Elements**”, International journal of Latest Engineering Science (IJLES), E-ISSN: 2581-6659, Volue 2, Issue 4 July-August 2019 PP 40-47 by PNS Srinivas, Ravidnra Babu. P, Balakrishna. B.
31. A paper “**Effect of silicon carbide, magnesium oxide as reinforcing elements and Zinc sterate as binding agent in the characterization of Al functionally graded materials for automotive applications**”, Publications in Materials today: proceedings. <https://doi.org/10.1016/j.matpr.2019.11.275> (Scopus indexed journal) by P.N.S.Srinivas, Ravindra Babu.P and Balakrishna. B.
32. A paper “**Mechanical, thermal and Tribological Characterization of Pure Al Functionally Graded Material in Situ with Alumina, Copper and Zinc Sterate as Lubricating Agent**”. International journal of mechanical production engineering research and development (IJMPERD) (Scopus indexed journal). ISSN (P): 2249–6890; ISSN (E): 2249–8001 Vol. 9, Issue 6, Dec 2019, 609–626 by P.N.S.Srinivas, Ravindra Babu.P and Balakrishna.B.
33. A paper "**Microstructural, Mechanical and Tribological characterization on the Al based functionally graded material fabricated by powder metallurgy**" Material research express, IOP publishing. Mater. Res. Express 7 (2020) 026513 Volume 7, Number Feb 2020 by PNS Srinivas, Ravindra Babu. P, Balakrishna. B.(SCI).
34. A Paper “**Material characterisation and optimisation of CNT reinforced AA7075 functionally graded material processed through ultrasonic cavitations process**”, Functional composites structures, Korean society of composite materials & IOP publishers, <https://dx.doi.org/10.1088/2631-6331/abb196> (Emerging Science citation index , Impact factor:1.925) November 2020, Volume 2, No.2 by P. N. S. Srinivas, P. Ravindra Babu and Balakrishna B.

#### 14. PATENT:

- A Patent published on “Artificial Intelligence Based Method for Computer-Aided Progressive Die Design” (Patent No. 201941037055) by Prof. V.V.R.L.S. Gangadhar, Dr. P. Ravindra Babu, Dr.Sukesh Babu Chennuri, Dr. Piyush Kumar Soni, Dr. Avadesh Kumar Sharma, Dr.Premanand Singh Chauhan, and Greesh Kumar Singh on 20<sup>th</sup> September 2019.
- A Patent published on “Process of forming three – dimensional objects with enhanced degradability (Pattent No.202141000882) by Mr.GVenkakata Jagadeesh, Dr. G. Setti Srinivasu, Dr. M. R. Ch. Sastry, Dr.B.Karuna Kumar, Dr.P.Ravindra Babu on 15<sup>th</sup> January 2021.

#### 15. BOOK PUBLISHED:

Burnishing of Engineering Materials: Process Optimization (DOE) & Maps published by LAMBERT, German, 2012.

## **16. RESEARCH GUIDING:**

- Guided 22 Mini projects and 26 Main projects for UG and 7 main projects for PG.
- Guided one research scholar, awarded in the year 2021.
- Guiding Three Research Scholars since 2016.

## **17. CAREER HISTORY**

- Responsible for the establishment of all Labs in both polytechnic and Engineering College.
- To orient and streamline the adolescent behavior of students for constructive work to achieve state /university ranks at diploma and Engineering level.
- To mould the telugu medium students for rural back ground into confident competitors for technical diploma and degree Crocus and engineering employment.
- To mould the fresh and PG graduates into competent engineering teachers
- Significant contribution on Research topic “Optimization of burnishing parameters and Determination of select surface characteristics in engineering materials” by conducting various experiments at DRDO, Hyderabad and obtained Ph.D Degree from JNTUH, Hyderabad
- As Dean of Student Affairs
  - Organized many inter colligate and state level Sports and Games competitions as convener.
  - Organized many social Service activities under NSS program.
  - Effectively counseled of students on academic, career and attitude domains there by helped poor learners actively.
  - Effective team player of the Institution with dependable nature and positive attitude.
  - Maintain discipline in the campus.
- As a Member of State Centre Committee IE (I) Under Mechanical division during 2008-12 and also Executive member of Vijayawada Local Centre during 2000-12, organized various activities including guest lectures, Student counseling, Industrial visits and conventions.
- As a member of National Executive counsel in ISTE, New Delhi during 2008-till date, Organized State level conventions and Delivered guest lectures on effective teaching methodologies at ISTE forums and conducted various seminars and organized state level Convention as convener.
- As a member of Department Development committee, actively participated in making suggestions to affiliating university on modification of syllabus.
- Developed Mechanical Engineering curriculum by establishing laboratories and introduced most quality lectures in the colleges.
- Establishment of all relevant labs in mechanical engineering at both polytechnic and engineering level, which helped the institute to be ranked one of the first rankers in the AP state and the university level.
- Industry Institute interaction by sending students for better training.

## **17. HUMANITARIAN EFFORT**

- The installation of a ISTE National level award in the name of his mentor Sri V.V.R.Seshadri Rao for the best engineering college indicates to promote

complete spirit in engineering education. It is very rare that an employee installs an award in name of employer.

- Successful in all domains of life like professional, societal, personal and added value to every segment of work under taken. Imparted quality education to my students at diploma and degree level. Contributed to society through professional societies and NSS activities with multifaceted abilities and with humanitarian nature, extended productive service to one and all. This type of association with life and profession is enriched with determination, dedication, team spirit, Leadership qualities and immense inclination towards social service.

**(Dr. P. RAVINDRA BABU)**