

## **BIODATA**

Name : **Dr. Kolla Srinivas**  
Father's Name : Kolla Ramaiah  
Mother's Name : Kolla Srihari  
Date of Birth : 14-08-1965  
Nationality : Indian  
Religion : Hindu  
Contact : 9866281628



Dr.Kolla Srinivas,  
PRINCIPAL,  
Professor, Department of Mechanical Engineering,  
Dean, Student Affairs  
R.V.R.& J.C. COLLEGE OF ENGINEERING(A),  
CHOWDAVARAM, GUNTUR

Address for communication: H. No: 4-5-27/7, 3/1, Vidyanagar, Guntur-522 007.

### **Educational Qualifications:**

<b>Qualification</b>	<b>Year of Passing</b>	<b>University / Board</b>	<b>Subjects Chosen</b>	<b>Class/ Division</b>	<b>Percentage</b>
Ph.D	May.2003	JNTU, Hyderabad	Mechanical Engineering	-	-
Master of Technology	1990	JNTU Kakinada	Machine Design	First with Distinction	74
Bachelor of Technology	1986	Nagarjuna University	Mechanical Engineering	First	65.5
Inter	1982	A.P. Board	M.P.C	First	78.4
S.S.C	1980	A. P. Board	Composite Math's	First	70.3

### **Details of Experience:**

<b>Name of the Employer</b>	<b>Period of Service</b>	<b>Post Held</b>	<b>Nature of Duties</b>
Sri Rama Engineering Constructions, Hyderabad	11-07-1986 to 10-11-1988	Mechanical Engineer	Maintenance
R.V.R. & J.C. CE Chowdavaram, Guntur	11-08-1990 to 30-07-1997	Lecturer in M.E. Department	Teaching & Other duties
-do-	01-08-1997 to 30-06-1999	Senior Lecturer	-do-
-do-	01-07-1999 to 30-06-2004	Asst.Professor	-do-
-do-	01-07-2004 to Till date	Professor	-do-

## **Summary of the Teaching and other Duties in the College:**

### **A) I) Subjects Taught / Teaching at present:**

1. Theory of Machines
2. Dynamics of Machines
3. Kinematics of Machines
4. Design of Machine Elements - I
5. Design of Machine Elements - II
6. Machine Drawing
7. Robotics
8. Strength of Materials - I
9. Design of Mechanisms and Manipulators
10. Advanced Mechanism Design
11. Design of Transmission Elements - II

### **II) Laboratories Handled:**

1. Workshop Practice - I
2. Workshop Practice - II
3. Workshop Practice -III
4. Design & Metrology Lab

### **B) Projects Guided :**

#### **1. B. Tech Projects: 28**

Guided Final year students of Mechanical Engineering Discipline in various projects involving Design and Stress analysis of various Mechanical components and elements using computer software, optimization methods.

#### **2. M. Tech Projects: 19**

Guided M.Tech (CAD/CAM) students of Mechanical Engineering Discipline in various projects involving optimum Design, FEM, Design and stress analysis using computer software.

#### **3. Ph.D. Projects: 12**

1. Guided Ph.D programme of Sri Kalluri Ramakotaiah, Professor, Dept. of I & P.E., K.L. Education Foundation University, Vaddeswaram, Vijayawada, Registered at Sri Chandra Sekhar Mahasaraswathi Vidyalaya, Enthur, Kancheepuram and the Degree was awarded in 2009.

**Topic:** Machine Tool Chatter Analysis.

2. Guided Ph.D programme of Sri G.Chaitanya, Associate Professor, Dept. of Mechanical Engineering R.V.R. & J.C. C.E, Registered at JNTU Hyderabad and the Degree was awarded in 2012.

**Topic:** Optimum Design of Axial Flow Compressor using Genetic Algorithm Approach.

3. Guided Ph.D programme of Sri Mahesh Mallampati, Assistant Professor, Dept. of Mechanical Engineering, Guntur Engineering College, Registered at Aligarh Muslim University, Aligarh, U.P and the Degree was awarded in 2016.

**Topic:** Integrating Design and Engineering Process to Reduce Production Cycle Time in Product Development.

4. Guided Ph.D programme of Sri B.Tulasi Rama Rao, Assistant Professor, Dept. of Mechanical Engineering, MallaReddy Institute of Engg. & Technology, Hyderabad as a supervisor who Registered at J.N.T.U, Hyderabad and the Degree was awarded in Aug, 2019.

**Topic:** Stability Analysis for Turning process at different operating parameters.

5. Guided Ph.D programme of Sri T.V.S.R.K Prasad , Asst.Prof.,Dept of Mechanical Engineering , MallaReddy Institute of Engg. & Technology, Hyderabad as a supervisor who Registered at Acharya Nagarjuna University, Guntur and the Degree was awarded in September, 2020.

**Topic:** Two Production Distribution Planning Models for a Multi-Product Multi Period Supply Chain

6. Guided Ph.D programme of Smt M.Vijaya , Asst.Prof.,Dept of Mechanical Engineering , R.V.R & J.C College of Engineering, Gunturas a supervisor who Registered at Acharya Nagarjuna University, Guntur and the Degree was awarded in September, 2020.

**Topic:** Processing and Evaluation of Mechanical and Wear Characteristics of AL6351/SiC and Al6351/Sic/Gr Aluminum hybrid Metal Matrix Composites

7. Guided Ph.D programme of Sri Mohammad Hasheer Shaik, Asst.Prof.,Dept of Mechanical Engineering , R.V.R & J.C College of Engineering, Guntur as a supervisor who Registered at Acharya Nagarjuna University, Guntur and the Degree was awarded in September, 2021.

**Topic:** Investigation of a low GWP refrigerants and mixtures in the

perspective of searching alternative refrigerants to replace R134a in a domestic refrigerator

8. Guided Ph.D programme of Sri Kondala Rao Dasari, Asst.Prof., Dept of Mechanical Engineering , R.V.R & J.C College of Engineering, Guntur as a supervisor who Registered at Acharya Nagarjuna University, Guntur and the Degree was awarded in July, 2022.

**Topic:** Dominant features identification of tool wear monitoring in hard turning by using acoustic emission and vibration techniques.

9. Guided Ph.D programme of Sri Sri Leela Krishna.J NRI, Lecturer working in Amboo University, Ethiopia, as a supervisor who Registered at Acharya Nagarjuna University, Guntur and the Degree was awarded in December, 2022.

**Topic:** Fabrication, characterization and optimization of machining parameters on BF slag particulates reinforced composites using multi criteria decision making methods.

10. Guided Ph.D programme of Sri. V. Vijaya Bhaskar, Asst.Prof., Dept of Mechanical Engineering, Sri Vasavi Institute of Engg. & Tech. Pedana , Krishna Dist as a supervisor who Registered at Acharya Nagarjuna University, Guntur and the Degree was awarded in February, 2023.

**Topic:** An experimental and micro mechanical study on physical, mechanical and thermal properties of banana-palmyra fiber reinforced polymer composites.

11. Guided Ph.D programme of Sri. Poorna Chandrasekhar Rao B, Asst.Prof., Dept of Mechanical Engineering, University College of Engineering (ANU), Nagarjuna nagar, Guntur Dist as a supervisor who Registered at Acharya Nagarjuna University, Guntur and the Degree was awarded in January, 2024.

**Topic:** Green synthesis of Graphene-Hydroxyapatite nanocomposites for bioimplant applications: Evolution of mechanical and in vitro biological properties.

12. Guided Ph.D programme of Smt. K. Lakshmi Chaitanya, Asst.Prof., Dept of Mechanical Engineering , R.V.R & J.C College of Engineering, Guntur as a supervisor who Registered at Acharya Nagarjuna University, Guntur and the Degree was awarded in January, 2024.

**Topic:** Development of LM26-Reinforced garnet Aluminium composites for piston applications.

#### **4. Ph. D Projects UNDER Progress: 4**

1. Guiding Smt.N.Surekha ,Asst.Prof.,Dept of Mechanical Engineering, MallaReddy Institute of Engg. & Technology, Hyderabad as a supervisor who registered at ANU, in 2011.

**Topic:** Optimization of principal Dimensions of Radial Flow Gas Turbine rotor using Genetic Algorithm.

2. Guiding Sri. M.V.A.Rama Krishna, Asst.Prof.,Dept of Mechanical Engineering, MallaReddy Institute of Engg. & Technology, Hyderabad as a supervisor who registered at ANU, Guntur in 2011.

**Topic:** Modeling and Process Analysis of Friction Stir welding.

3. Guiding Sri. P. Mastan Rao, Asst.Prof., Dept of Mechanical Engineering, Loyola Institute of Tech and Management, sattenapalli as a supervisor who registered at ANU at Guntur in 2014

4. Guiding Sri. Y. Srinivas, Asst.Prof., Dept of Mechanical Engineering, Malineni Engineering College, Guntur as a supervisor who registered at ANU at Guntur in 2014

#### **C) Other Duties:**

1. Principal
2. Vice principal
3. Dean, Student Affairs
4. Professor & HOD
5. Convener, Literary & Cultural Committee.

#### **M. Tech Dissertation Work:**

Mechanical Design and Analysis of Rotary Equipment used in oil rigs with conventional and Finite Element Methods (computer aided analysis through LIBRA software package) in Bharat Heavy Electrical Limited, Hyderabad during the year 1989-1990.

#### **Ph.D. Dissertation Work:**

Research work was done on “Optimization of Axial Flow Gas Turbine stage using Genetic Algorithm Approach” and the degree was awarded on 25th May, 2003 at JNTU, Hyderabad.

#### **Areas of Special Interest:**

1. Finite Element Method
2. Genetic Algorithm Approach

3. Neural Networks
4. Micro Genetic Algorithm Approach
5. Pseudo Genetic Algorithm Approach
6. Simulated Annealing
7. Fuzzy Logic
8. Ant Colony optimization
9. SWAM optimization
10. Advanced Mechanisms and Machines
11. Robotics
12. Machine Dynamics
13. Mechanical Vibrations

**A) Awards:**

Received the ***Crops of Mechanical and Electrical Gold Medal*** for the paper titled “Optimum Design of Axial Flow Gas Turbine stage using Genetic Algorithms” in the 20th Indian Engineering Congress of the Institution of Engineers , India , held at Kolkata during December,15-18,2005.

**B) Books published /Chapters contributed:**

1. **Dr.S.Kolla**, Y.Anil Kumar, S.Rajesh, “Noise Reduction of Air Blower Casing using Composites” In a book titled “Vibration Problems ICOVP” published by Spinger P.No 215-222, ISBN 978-1-4020-9091-2,e-ISBN: 978-1-4020-9100-1
2. Ramakrishna, M.V.A. **Srinivas, K.** “Analysis of Thermal Fields, Weld Strength and Microstructural Studies of Friction Stir Dissimilar Weldments of AA6082 and AA7075” published by key engineering materials 2022, 934, pp. 139–151. <https://doi.org/10.4028/p-e4uahg>

**Google Scholar link :** <https://scholar.google.com/citations?user=aKGfvbAAAAAJ&hl=en>

**ORCID ID :** <https://orcid.org/0000-0002-1389-4686>

**Scopus link :**<https://www.scopus.com/authid/detail.uri?authorId=36155593300>

**Research gate ID :** [https://www.researchgate.net/profile/Kolla\\_Srinivas3](https://www.researchgate.net/profile/Kolla_Srinivas3)

**Publons ID :**<https://publons.com/researcher/4055674/srinivas-kolla/>

**Publications:**

<b>International Journals</b>	<b>National Journals</b>	<b>International Conferences</b>	<b>National Conferences</b>	<b>TOTAL Publications</b>
<b>63</b>	<b>8</b>	<b>12</b>	<b>10</b>	<b>93</b>

**C) Papers published in International Journals :**

1. K.V.J.Rao, **S.Kolla**, Ch.Penchalaiah, M.Anadarao and Dr.J.Srinivas “Optimum Stage Design in Axial flow Gas Turbines” Journal of Power and Energy Proceedings of the Institution of Mechanical Engineers, Volume 216, part A, PP433 – 445, August 2002
2. G.Chaitanya, J.Suresh Kumar and **Dr.Kolla Srinivas**, “Multi Objective Optimization of Axial Flow Compressor Stage Using Genetic Algorithm Approach” , International Journal of Applied Engineering Research, Vol 5,Issue 10,PP 1827-1842,2010,(ISSN:0973-4562). **(Scopus Indexed)**
3. G.Chaitanya, J.Suresh Kumar And **Dr.K.Srinivas** “Optimization Of Axial Flow Compressor Stage Using NSGA-II Technique, ARPN Journal Of Engineering And Applied Sciences Vol5, No12, December2010 (ISSN: 1819-6608), Pp1-5. **(Scopus Indexed)**
4. G.Chaitanya, J.Suresh Kumar And **Dr.K.Srinivas** “A Non Elitist Optimization” ” International Journal Of Science And Technology (IJEST), (ISSN: 0975-5462), Vol3, No2, Pp940-947, Feb2011.
5. N.Surekha,**Dr.Srinivas.Kolla**,Devaraj.Ch,K.Sreekanth , “ Optimization of principal Dimensions of Radial Flow Gas Turbine rotor using Genetic Algorithm” International Journal of Scientific & Engineering Research,Vol3,Issue 12,Dec-2012,(ISSN2229-5518).
6. Dr.Goteti Chaitanya, **Dr.Kolla Srinivas**, “Multi Objective Evolutionary Optimization Techniques based on Non Domination Principle-A Review”,International Journal of Advanced Scientific and technical research,issue 2,Volume 5,Oct-2012,PP no-563- 572,(ISSN2249-9954).
7. B.Tulasi Rama rao, **Dr.K.Srinivas**, Dr.P.Rami Raddy,A.Ravendra,,Dr.B.V.R.Ravi Kumar. “Effect of processing Parameters on surface finish of the components processed by CNC turning Machine” International Journal of mechanical Engineering application Research (IJMEAR),Vol 4,issue01,Jan-Mar 2013,Pp224228(ISSN:2249-6564).
8. Neha Nag K., Ch. Deva Raj, **Dr.Kolla Srinivas** and Mastan Rao P., “Optimization of Gripper by Using Ant Colony Metaphor”, *Research Journal of Engineering*

9. B. Tulasi Rama rao, **Dr.K. Srinivas**, Dr.P.Ram Reddy,K.Ramakotaiah, K.Naveena Latha, “Optimal control of the cutting force in metal cutting operations”, Journal of mechanical engineering applications research (IJMEAR), Vol 4, Issue 02, April-June- 2013 (ISSN:2249-6564)
10. B.Tulasi Rama rao, **Dr.K.Srinivas**, Dr.P.Ram Reddy,A.Ravendra,,Dr.B.V.R.Ravi Kumar, “Experimental study on the effect of cutting paramaters on surface finish obtained in CNC turning operation”, Journal of innovative Research in science, Engineering and Technology (IJIRSET), Vol 2,Issue 9, September 2013 (ISSN:2319-8753)
11. B.Tulasi Rama rao, **Dr.K.Srinivas**, Dr.P.Ram Reddy,A.Ravendra,,Dr.B.V.R.Ravi Kumar, “Measuring cutting forces while cutting of different metals with different speeds”, journal of application of innovation in engineering & management (IJAIEEM), Vol 3, Issue 9,September 2014 (ISSN:2319-4847)
12. B.Tulasi Rama rao, **Dr.K.Srinivas**, Dr.P.Ram Reddy,A.Ravendra,,Dr.B.V.R.Ravi Kumar, “Finding cutting forces while turning operation on lathe machine at different depth of cut of different metals”, Journal of innovative Research in science,Engineering and Technology (IJIRSET), Vol 3,Issue 10,October 2014 (ISSN:2319-8753)
13. N.Surekha, Ch.Deva Raj, **Dr.Kolla Srinivas**, P.Mastan Rao, “Optimization of Principal Dimensions of Radial Flow Gas Turbine Rotor Using Ant Colony Algorithm”, **IJSER Volume 5, Issue 12 ,Dec 2014**,(ISSN:2229-5518).
14. M.Lakshmi Aparna, Dr.G.Chaitanya, **K.Srinivas**, Professor,Jetti Appa Rao published a paper on Fatigue Testing of Continuous GFRP Composites Using Digital Image Correlation (DIC) Technique a Review, published in the journal of ELSVIER Materials Today: Proceeding 2-2015,PP 3125-3131,(ISSN:2214-7853).
15. Md Hasheer .Sk, **Dr K.Srinivas** , “Turbine Blade Cascade Heat Transfer Analysis Using CFD –A Review” , IJSTE- International Journal of Science Technology and



Engineering “, Pp 4-8, Vol 01, Issue 07, January 2015, ISSN(online): 2349-784X

16. **Dr.Kolla Srinivas**, Ch.Deva Raj, D.Kondala Rao, “ Tool Condition Monitoring in Hard turning by using Acoustic emission-A Review” International Journal of Scientific Engineering and Technology ,Vol 3, issue 1,JAN-FEB 2015(ISSN:2348-4098)
17. M.vijaya, **Dr.K.Srinivas**, “Investigation of Mechanical Properties of Borassus Flabellifer Fibre Reinforced Polymer Composites”, JETIR, Vol 2, Issue 12, December-2015, (ISSN- 2349-5162)
18. K.Lakshmi chaitanya, **Dr.K.Srinivas**, K.Jagadish Chandra Bose, “Design of Ventilation and air conditioning for 50 Ton bollard pull utility tug built for indian navy”, Journal of Refrigeration, Air conditioning, Heating and Ventilation , Vol 3, Issue 1, (ISSN:2394- 1952) PP 1-8 2016
19. V Vijaya Bhaskar, **Dr. Kolla Srinivas**, “A Review On Natural Fiber Polymeric Composites”, Journal of Informative & Futuristic Research(IJIFR),Vol 3, Issue 10, June 2016 (ISSN:2347-1697)
20. TVSRK Prasad, **K.Srinivas** and Assoc.Prof.Dr.C.Srinivas.”Decentralized production Planning in Multi-echelon Supply Chain Network using intelligent Agents” ,journal of the operation research society of india(OPSEARCH) by springer,(ISSN-0030-3887), 03 August 2016. **(Scopus Indexed)**
21. Yarram Srinivas, **Dr.Kolla Srinivas**, Dr.Sridhar CNV, Peddi Sreenivasa Rao, “Review and Framework for Task Allocation for a Robot in Digital Manufacturing : a Simulation Approach” by IJSER, Volume 7, Issue 7, July-2016.
22. TVSRK Prasad, Sk.Abdul Saleem, **K.Srinivas** and Dr.C.Srinivas, “Supply Chain Management : Modeling And Algorithms : A Review” by SSRG-IJME – Special Issue May – 2017; ISSN: 2348 – 8360 Pages: 191 to 197.
23. B.Purna Chandra Sekhar, **K.Srinivas**, S.Radhika, “Few Aspects in Hard Turning Process” by International Journal of Research, p-ISSN: 2348-6848, e-ISSN:

2348-795X, Volume 04 Issue 08 July, 2017 pp.1-7.

24. K.Lakshmi Chaitanya, **K.Srinivas**, S.Venkateshwar Rao, “Crash and Vibrational Analysis of Car Body” by Trends in Mechanical Engineering & Technology, ISSN: 2231-1793 (Online), ISSN: 2347-9965 (Print) Volume 7, Issue 2, 2017, pp.26-35.
25. Tulasiramarao.B, **Dr.Srinivas.K**, Dr.Ram Reddy.P, “Stability Analysis of Turning Using a Non-Linear Force-Feed Model” by Advances in Computational Sciences and Technology, ISSN 0973-6107 Volume 10, Number 6 (2017) pp.1867-1884.
26. Tulasiramarao.B, **Dr.Srinivas.K**, Dr.Ram Reddy.P, “Analysis of Stability in Turning with Secondary Effects” by American Society for Engineering Education, Journal of Engineering Technology, ISSN: 0747-9964, Volume 6, Issue 2, July, 2017, pp.216-321.
27. Mahesh Mallampati, **Dr.K.Srinivas** and Dr.Mohammad Altamush Siddiqui, “Design Integrating & Process in Engineering to Reduce Production Cycle Time In Development of Product” by Int. Journal of Engineering Research and Application, ISSN: 2248-9622, Vol.7, Issue 10 (Part-6) October 2017, pp.66- 72.
28. D.Kondala Rao, **Dr.Kolla Srinivas** “An analysis of feature identification for tool wear monitoring by using Acoustic Emission” Traitement Du Signal 34 (2017) DOI:10.3166/TS.34.117-135,2017. **(SCIE, Web of science, Scopus Indexed)**
- 29 D.Kondala Rao, **Dr.Kolla Srinivas**, C.Tara Sasanka, D.Sameer Kumar “Study of Combined effect of inclination and partial fins on melting of phase change in a rectangular enclosure using CFD” Journal of modelling and Simulation of Materials, Vol-1,Issue-1,PP:30-38,2018.
- 30 M.Lakshmi Aparna, Dr.G.Chaitanya, **Dr.K.Srinivas Rao** published a paper on Continuous GFRP Composites Using Digital Image Correlation (DIC) Technique a Review, published in the journal for Innovative Research in Science & Technology, Vol 5, ISSN(Online): 2349 – 6010, Issue 1, June 2018.
- 31 V.Vijaya Bhaskar, **Dr.Kolla Srinivas**, D.Siva Bhaskara Rao “”Effect of Fiber Parameters on Mechanical Behaviour of Banana-Palmyra Hybrid Fiber

Reinforced Epoxy Composites” International Journal of Advanced Materials & Applications, Adv.Mater.App 1(2018) 1-8, 22 September,2018.

- 32 M.Hasheer, **Dr.Kolla Srinivas** “Theoretical Analysis of Low Global warming Potential Refrigerant as a Drop in Replacement of R134a in a domestic refrigerator” journal of Iranica Journal of Energy and Environment, 9[2]: 130-136, 2018.
- 33 K.Lakshmi Chaitanya, **Dr.Kolla Srinivas** “A Review on use of LM Based Aluminium Alloys in Automobile Components” Journal of American International Journal of Research in Science, Technology, Engineering and Mathematics.24(1),September- November,2018,pp:103-107.
- 34 D.Kondala Rao, **Dr.Kolla Srinivas**, Ch.Deva Raj “Ceramic Tool Condition Monitoring in Machining of Inconel 718” Journal of Int. J. Sc. Res. In Network Security and Communication,ISSN: 2321-3256,Vol- 7,Issue-1,March 2019.
- 35 M.Vijaya, **Dr.Kolla Srinivas**, “Investigation on Mechanical Properties of AA6351/SIC and AA6351/SIC/GR Composites Fabricated by Stir Casting Method” International Journal of Recent Technology and Engineering(IJRTE), ISSN: 2277 – 3878, Vol 8, Issue 1, May 2019. **(Scopus Indexed)**
- 36 Md.Hasheer, **Dr.Kolla Srinivas** “Performance analysis of Alternative low GWP Refrigerant mixtures as a direct substitute of HFC-134a in a Domestic refrigerator using LSHX” International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Volume-8, Issue-8, June 2019. **(Scopus Indexed)**
- 37 T. Kranthi Kumar, K.Lakshmi Chaitanya, **Dr. K.Srinivas**, N. Pragna “Assessment of Thermal Strains based on Temperature Distribution of LM26 Composite by FEA” International Journal of Research and Analytical Reviews(IJRAR), E - ISSN: 2348 – 1269, P – ISSN: 2349 – 5138, Vol 6, Issue 2, June 2019.
- 38 Sk. Mohammad Hasheer, **Dr. Kolla Srinivas** “Thermodynamic Analysis of Low GWP Refrigerant Mixtures in a Refrigerator as Replacement to R-134A” Journal

of Mechanical Engineering, Vol.69(2019), No: 4, 147-158, Online ISSN: 2450-5471, 12 Aug, 2019. **(Scopus Indexed)**

- 39 Md.Hasheer, **Dr.Kolla Srinivas** “Performance Comparison of a Low GWP Refrigerants as Alternatives to R134a in a Refrigerator with and without Liquid – Suction Heat Exchanger” Journal in Trans Tech Publications Ltd, Switzerland, ISSN: 1662 – 9752, Vol, 969, pp. 343 – 348, 30<sup>th</sup> Aug, 2019. **(Scopus Indexed)**
- 40 Md.Hasheer, **Dr.Kolla Srinivas** “Effect of Hydrofluorocarbons and Hydrofluoroolefins in a household Refrigerator as a substitute for R134a” Journal in Trans Tech Publications Ltd, Switzerland, ISSN: 1662– 9752, Vol, 969, pp. 199 – 204, 30<sup>th</sup> Aug, 2019. **(Scopus Indexed)**
- 41 Sk. Ansar Subhani, K.Lakshmi Chaitanya, **Dr.K.Srinivas**, N.Pragna, Sk. Ansar Jilani “Implementation of VIKOR method for selection of Ideal Piston material alloy subjected to different criteria weighting methods” International Journal of Management, Technology and Engineering, ISSN: 2249 – 7455, Vol IX, Issue VIII, Aug 2019.
- 42 D.Kondala Rao, **Dr.Kolla Srinivas**, “Tool Condition Monitoring in Hard Turning of Inconel 718 by using Vibration Technique” International Journal of Innovative Technology and Exploring Engineering(IJITEE), ISSN: 2278 – 3075, Vol 8, Issue 11, Sep 2019. **(Scopus Indexed)**
- 43 Dasari Kondala Rao, **Dr. Kolla Srinivas**, “Comparision of Dominant Features Identification for Tool Wear in Hard Turning of Inconel 718 by using Vibration Analysis” Journal of Mechanical Engineering, Vol.69(2019), No:4, 1-8, Online ISSN: 2450-5471, October, 2019. **(Scopus Indexed)**
- 44 K. Lakshmi Chaitanya, **Dr. Kolla Srinivas** “Sensitive Analysis on Selection of Piston material using MADM Technologies” International journal of Mechanical Engineering @ Sjf STU Bratislava, DOI: 10.2478/scjme - 2019-0042, Print ISSN: 2450 - 5471, Vol 69(2019), Pg. No: 45 - 56, December 2019. **(Scopus Indexed)**
- 45 Mohammad Hasheer Shaik, **Dr. Kolla Srinivas**, Bala Prasad Katuru “Exergy and

energy analysis of low GWP refrigerants in the perspective of replacement of HFC-134a in a home refrigerator” International Journal of Ambient Energy, ISSN: 0143-0750(Print) 2162-8246(Online), 04, Feb 2020. **(Scopus Indexed)**

46 T.V.S.R.K. Prasad, **Kolla Srinivas**, C.Srinivas “Investigation into control strategies of supply chain planning models: a case study” Operational research society of india (OPSEARCH),Springer, ISSN: 0030-3887, 26, May 2020.DOI: <https://doi.org/10.1007/s12597-020-00460-x>. **(Scopus Indexed)**

47 V. Durgarao, Dr K.Srinivas, Srim CH.Devaraj “Thermal-Structural Coupled Analysis of Brake Disc Using Catia and Ansys” Compliance Engineering Journal, ISSN: 0898-3577, Vol 11, Issue 9,2020 Pg. No: 465 - 474.

48 K. Lakshmi Chaitanya, B.Rajesh,**Dr. Kolla Srinivas** “Optimization of Wear Behaviour of Aluminum LM26 Composite using Taguchi Method” Compliance Engineering Journal, ISSN: 0898-3577, Vol 11, Issue 10,2020 Pg. No: 127 - 135.

49 VENNAPUSA Vijaya Bhaskar,**KOLLA Srinivas**, devireddy Siva Bhaskara Rao “ Investigation on physical and mechanical properties of banana and palmyra fiber reinforced epoxy composites” International journal of Mechanical Engineering @ SjF STU Bratislava, DOI: 10.2478/scjme - 2020-0029, Print ISSN: 2450 - 5471, Vol 70(2020), Pg. No: 167 - 180. **(Scopus Indexed)**

50 V.Vijaya Bhaskar, **K.Srinivas**, S.B.R Devireddy “A novel mathematical correlation for thermal conductivity of hybrid composites reinforced with natural fibers” Materials today proceedings DOI: 10.1016/j.matpr.2020.02.479 ISSN: 2214 - 7853, Vol 26(2020), Pg. No: 2208 - 2211. **(Scopus Indexed)**

51 D. Kondala Rao, **Kolla Srinivas**, Md. Hasheer SK, and K. Hari Prasad “Mathematical modelling of dominant features identification for tool wear monitoring in hard turning by using Acoustic emission” Turkish Journal of Computer and Mathematics Education, Vol.12 No.2 (2021), 935-943, 5 April 2021.

52 K. Lakshmi Chaitanya, **K.Srinivas**, M.Vijaya “ Optimization of LM26-Gr Composite Using Taguchi Based Grey Relational Analysis” Turkish Journal of

Computer and Mathematics Education, Vol.12 No.7 (2021), 3148-3156, 16 April 2021.

- 53 Shaik Mohammad Hasheer, **Kolla Srinivas**, Vadlamudi Tara Chand, Bala Prasad Katuru, Kommineni Ravindra (2021). Thermodynamic analysis of eco-friendly refrigerant mixtures as an alternative to HFC-134a in household refrigerator. International Journal of Heat and Technology, Vol. 39, No. 5, pp. 1567-1574. <https://doi.org/10.18280/ijht.390519>. **(Scopus Indexed)**
- 54 Shaik Mohammad Hasheer, **Kolla Srinivas**, and Bala Prasad Katuru "Energy Analysis of HFC-152a, HFO-1234yf and HFC/HFO Mixtures as a Direct Substitute to HFC-134a in a Domestic Refrigerator. Strojnicky časopis-Journal of Mechanical Engineering 71.1: 107-120.**(Scopus Indexed)**
- 55 Gorantla Nagaratnam, **Kolla Srinivas** "Experimental and testing of Kevlar chopped mate and kenef fibers using hand layup technique" International journal of advance scientific research and engineering trends, Vol.6 No.7, July,2021.
- 56 Boyapati, Purna Chandra Sekhar, **Kolla Srinivas**, and Syed Akhil. "Green synthesized graphene-hydroxyapatite nanocomposites for bioimplant applications." Materials Letters (2022): 133059. **(SCIE)**
- 57 **Srinivas, K.**, Konda, L.C. Evaluation of Wear Behaviour Based on Mechanical Properties and Particle Size in LM26 MMC, Strojnicky Casopis,72(2), pp. 93-102,2022 **(Scopus Indexed)**
- 58 **Srinivas, K.**, Bhaskar, V.V., Devireddy, S.B.R. A computational micromechanical approach to predicting Young's modulus of continuous banana and palmyra fiber-reinforced epoxy composites, International Journal of Computational Materials Science and Engineering,12(2),2023 **(Web of science, Scopus Indexed)**
- 59 **Srinivas, K.**, Boyapati, P.C.S., Akhil, S., ...Bollikolla, H.B., Chandu, B.ChemistrySelect 8(8)2023,A Comprehensive Review on Novel Graphene-Hydroxyapatite Nanocomposites For Potential Bioimplant Applications **(Scopus Indexed)**

- 60 **Srinivas, K.**, Boyapati, P.C.S., Chandu, B.Green synthesis of graphene-hydroxyapatite nanocomposites with improved mechanical properties for bone implant materials, *Materials Chemistry and Physics*,296,2023 (**Scopus Indexed**)
- 61 **Srinivas, K.**, Chaitanya, K.L. Evaluation of mechanical behaviour and effect of particle size on Im26/gr metal matrix composite, *Suranaree Journal of Science and Technology*,30(1),2023 (**Scopus Indexed**)
- 62 SK, Mohammed HASHEER, **Srinivas KOLLA**, Dasari KONDALA RAO, and Yellapragada NAGA VENKATA SAI RAM. "Theoretical exploration of low GWP refrigerant mixtures as replacement to HFC-134A in a vapour compression refrigeration system." *Journal of Thermal Engineering* 9, no. 4 (2021): 912-920. (**ESCIE, Scopus Indexed**)
- 63 HASHEER SHAIK, Mohammad, **Srinivas KOLLA**, Bala Prasad KATURU, and Yellapragada NAGA VENKATA SAIRAM. "Theoretical investigation of low GWP refrigerant mixtures as an alternative to R-134A in a domestic refrigerator." *Sigma: Journal of Engineering & Natural Sciences/Mühendislik ve Fen Bilimleri Dergisi* 41, no. 5 (2023). (**ESCIE, Scopus Indexed**)

**D) Papers published in National Journals:**

1. Dr.J.Srinivas, **Dr.K.Srinivas**, Prof.M.Ananda Rao and Dr.K.V.J.Rao, "Optimum Design of Axial Flow Gas Turbine Stage using Genetic Algorithms" Optimum Design of Axial Flow Gas Turbine Stage using Genetic Algorithms" *Mechanical division*, vol.85, PP179 – 187, January 2005.
2. K.Rama Kotaiah, Dr.J.Srnivas, Dr.K.J.Babu and **Dr.Srinivas Kolla**, "Analysis of Regenerative Chatter in Turning" *The journal of Manufacturing Technology Today*, vol.6, issue 11,PP35 –40, November 2007.
3. K.Rama Kotaiah, Dr.K.J.Babu, Dr.J.Srinivas and **Dr.Kolla Srinivas**, "The Impact of Cutting Conditions on Cutting Forces and Chatter Length for Steels and Aluminum"

The Journal of Manufacturing Engineering, vol.3, issue 3, PP178-184, 2008.

4. K.Rama Kotaiah, Dr.J.Babu, Dr.J.Srinivas and **Dr.Kolla.Srinivas**, “The Impact of Cutting Conditions on Cutting Forces and Vibrations for Steels and Aluminum” The Journal of Manufacturing Technology Today, vol.8, issue 1, PP32-38, Jan 2009.
5. Dr.K.R.Kotaiah, Dr.K.J.Babu and **Dr.K.Srinivas**, ““The Impact of Cutting Conditions on Cutting Forces and Chatter Length for Steels and Aluminum” The Journal of Institution of Engineers, India, Mechanical Division, Vol.91, PP 3-10, April 2010.
6. **K.Srinivas**, Ch Devaraj, K Sridhar, P.Mastan Rao “Optimum Design Of Pressure Vessel Using Ant Colony Metaphor” ANU Journal Of Engineering And Technology, Selected And To Be Published.
7. T V S R K Prasad, **Dr.K.Srinivas** and C Srinivas “Integrated production – inventory – distribution optimization in a multi- echelon supply chain “ National Journal of Manufacturing technology today (MTT) Pp 16-21 Vol. 14, No. 12, December 2015, ISSN-0972-7396.
8. TVSRK Prasad, **K.Srinivas** and Dr.C.Srinivas, “Multi-Product Inventory Optimization In a Multi- Echelon Supply Chain Using Artificial Bee Colony Optimization” by Manufacturing Technology Today, Vol.15, No.12, December 2016.

**E) Papers published in National Conferences :**

1. M.Ananda Rao, J.Srinivas, Dr.Ch.Penchalaiah, K.V.J.Rao and **Dr.Srinivas Kolla**, “Optimum Design of Axial flow Gas Turbine Stage using Genetic Algorithms” , National conference on recent Trends in CAD/CAM, PP.176-181 on 30th March, 2002 at JNTUCE, Kakinada.
2. K.V.J.Rao, Dr.Ch.Penchalaiah, **Srinivas.Kolla**, M.Ananda Rao and J.Srinivas, “Optimum stage Design in Axial Flow Gas Turbines” National conference on recent Trends in CAD/CAM, PP.204-207 on 30th March, 2002 at JNTUCE,



Kakinada.

3. J.Suresh Kumar, DR.Ch.Penchalaiah, **K.Srinivas**, K.Staya Vani, P. Santi ,“Vibration analysis of unsymmetrical Laminated plates using higher order theory with Finite Element Method” National conference on recent Trends in CAD/CAM, PP.62-65 on 30th March, 2002 at JNTUCE, Kakinada.
4. Prfo.M.Anada Rao, Ch.Penchalaiah, J.Srinivas, P.Srinivas, and **K.Srinivas** , “Inverse Approach of Vibration Analysis using Neural Networks” National conference on recent Trends in CAD/CAM, PP.170- 175 on 30th March, 2002 at JNTUCE, Kakinada.
5. J.Suresh Kumar, Dr.Ch.Penchalaiah, **K.Srinivas**, P.Naga Sekhar, “Higher Order theories for Stress Analysis of Sandwich Plates using Finite Element Method” National conference on recent Trends in CAD/CAM, PP.182-187 on 30th March, 2002 at JNTUCE, Kakinada.
6. N.K.Jakka, Dr.Baldev Pathak, and **Dr.Srinivas Kolla**, “Optimum Stage Design Axial flow gas Turbines” Proceedings of National Conference on Advances in Mechanical Engineering at JNN College of Engineering, Shimoga, Karnataka, India, 2004.
7. **Dr.S.Kolla**, S.Rajesh, Y.Anil Kumar, “Effectiveness of Composites Over Metals in Reducing Noise of Air Blower Casing”, Proceeding of National Conference on Emerging Technologies as in Mechanical Engineering for Sustainable development at S.R.K.R. Engineering College , Bhimavaram on 22<sup>nd</sup> and 23<sup>rd</sup> Dec 2006.
8. Mr.K.Pavan Kumar Reddy, **Dr.K.Srinivas**, Mr.Ch.Devaraj, “Multi-Objective optimization of the Surface Roughness and MRR in Turning operation using Grey-based Taguchi Method” Proceedings of the NCAME, April-2013, Organized by Vignan University, Guntur, Andhra Pradesh, INDIA.
9. **Kolla Srinivas**, Ch,Deva Raj, and sadhu Venkateswarlu, “Ant colony Algorithm-based multi-objective optimization of cutting parameters in turning process” Proceeding of National Conference on Recent Advantages in Mechanical

Engineering (NARAME-2011), conducted on 7-8 July 2011, by RVR&JC College of Engineering, Guntur, INDIA.

10. N.Surekha, Ch.Deva Raj, **Dr.srinivas kolla** and K.Prasad, "Optimum Design of Radial Flow Gas Turbine Rotor using ANT COLONY METAPHOR" Proceedings of National Conference on Emerging Trends in Mathematical sciences and Engineering applications (ETMSEA-2014), Under TEQIP-II Organised by Department of Mathematics, University college of engineering Kakinada, JNTUK, Kakinada during May 21-22

**F) Papers Presented/Published in International Conference:**

1. N.K.Jakka, Baldev Pathak and **Srinivas Kolla**, "Application of Genetic Algorithm on Optimum Stage Design of Axial flow Gas Turbines", Proceedings of the 14th ISME International Conference on Mechanical Engineering in Knowledge Age, at Delhi college of Engineering, Delhi, India, Dec 12-14, 2005.
2. K.Bala Prasad, **Dr.Srinivas Kolla**, "Expert System Approach for Optimization of Gas Turbine Stage Using Artificial Neural Networks" Proceedings of the 14th ISME International Conference on Mechanical Engineering in Knowledge Age, at Delhi college of Engineering, Delhi, India, Dec 12-14, 2005.
3. **Dr.Kolla Srinivas** , "Global Leadership in Engineering and Technology- India's Emergent Role" in the 86<sup>th</sup> Annual general meeting at Kolkata, Dec 15-18, 2005, Organised by The 20<sup>th</sup> Indian Engineering Congress of the Institution of Engineers India.
4. **Dr.S.Kolla**, Y.Anil Kumar, S.Rajesh, "Noise Reduction of Air Blower Casing using Composites" Proceedings of the 8th ISME International Conference on Vibration problems (ICOVP-2007) Organized by Bengal Engineering and Science University Shibpur, West Bengal, Springer Publications on Physics- 126, edited by Inan, PP 215- 222, 2009.
5. B.Tulasi Rama Rao, **K.Srinivas**, P.Rami Reddy, K.Rama Kotaiah, A.Ravindra, "Characteristics of force feed on stability in turning Process" Proceedings of Second international Conference on Advancements in Engineering and Managements Conducted at Feb 27-28, 2013 by Royal Institute of Science and

technology,Hyderabad,INDIA

6. N.Surekha, Deva Raj.Ch , **Dr.Srinivas Kolla**, Kota Sridhar , “Optimization of Principal Dimensions of Radial Flow Gas Turbine Rotor Using Ant Colony Algorithm” , Engineering & Technology Procedia, Vol. 1 (2013) p.1-6
7. M.Lakshmi Aparna, Dr.G.Chaitanya, Dr.Kolla Srinivas, Dr. Jetti Appa Rao, Fatigue testing continuous GFRP composites using digital image correlation (DIC) technique a Review” 4th international Conference on Materials processing and Characterization Proceeding of Materiastoday,2014 .
8. TVSRK Prasad, **K.Srinivas** and Assoc.Prof.Dr.C.Srinivas.”Decentralized production Planning in Multi-echelon Supply Chain Network using Autonomous Agents” Proceedings of International Conference On Trends in the Industrial and Mechanical Engineering,during feb 4-6,2016 held at MANIT Bhopal.
9. TVSRK Prasad, **K.Srinivas** and Dr.C.Srinivas,”Integrated Production- Inventory-distribution Optimization in a Multi-echelon Supply Chain” in Proceeding of the International Conference on Industrial Engineering, held at SVNIT, Surat in Feb 2016.
10. TVSRK Prasad, T.Veeraiah, Y.Pratapa Reddy, **Kolla Srinivas**, C.Srinivas, “Decentralized Production Distribution Planning For A Multi Product Supply Chain: A Case Study” by Proceedings of International Conference on Frontiers in Engineering, Applied Science & Technology (FEAST ‘17) March 31<sup>st</sup> & April 1<sup>st</sup>, 2017, ISBN 978-81- 908388-8-7, pp.52-58.
11. TVSRK Prasad, T.Veeraiah, Y.Kiran, **Kolla Srinivas**, C.Srinivas, “Decentralized Production Distribution Planning in a Supply Chain: Computer Experiments” by ELSEVIER, Materials today Proceedings 00 (2018) 0000-0000 ICAMME-2018, 2214-7853 c 2018 Elsevier Ltd.
12. M.Vijaya, **Dr.Kolla Srinivas**, “”Investigation on Mechanical Properties of AA6351/SIC and AA6351/SIC/GR Composites Fabricated by Stir Casting Method” International Conference on recent Advances in Materials, Manufacturing & Energy Systems(ICRAMMES-2019) during 3-4 January,2019

at VR Siddhartha Engineering College,AP.

**G) ADDITIONAL RELEVANT DETAILS :**

1. Attended National Workshop on Industrial Ergonomics and safety held on 17-18 February 1995, At R.E.C Warangal.
2. Attended “Induction training” course of A.I.C.T.E. Organized by the Academic staff College, Andhra University Visakhapatnam, From 13th May 1996.
3. Participated in I.S.T.E. course on “Induction Training for Teachers” Organized by I.S.T.E Chapter, Guntur from 20-22 April 1995 at R.V.R. & J.C College of Engg. Chowdavaram, Guntur.
4. Participated in I.S.T.E. Summer School on “Role of computers on Instrumentation and Control Systems”, from 15-27 May 1995.
5. Attended the A.I.C.T.E Sponsored Short term training Programme on “COMPUTER GRAPHICS” held at IIT Madras, During June 10-21-1996.
6. Attended a seminar on “Service Quality Management” held on 12th September 1997 Organized by the Departments of Management Sciences and IPE R.V.R. & J.C C.E., Guntur.
7. Given seminar on “Curriculum Design” on Induction Training for Teachers Programme conducted by the Dept. of Mech. Engg. R.V.R. & J.C college of Engineering .Guntur during the period April 27-28, 1998.
8. Given seminar on “Workshop Practice III” on Induction training for teachers programme conducted by the Dept. of Mech. Engg, R.V.R.& J.C college of Engg. Guntur in Feb-2000.
9. Attended a Seminar on “Productivity Challenges of 21st Century” during the period Aug 27-28, 1998, Organized by R.V.R. & J.C College of Engg. Guntur.
10. Attended a Short term course on “Finite Element Methods” during the period 5-6 October, 2001 conducted by Dept of Civil Engineering, R.V.R. & J.C college of Engg., Guntur.

11. Given a Seminar on “Curriculum Design” in Induction Training for Teachers programme during the period 10-11 Jan 2002 Conducted by Dept of Mechanical Engineering RVR & JC college of Engineering, Guntur.
12. Conducted state level student paper contest Mech. Mantra 02, during period 20-21, Jan 2002.
13. Conducted state level student paper contest Mech. Mantra 05, during period 20-21, Jan 2005.
14. Attended to 8<sup>th</sup> international conference on “Vibration Problems(IC OVP-2007) Organized by Bengal Engg. College and Science University BESE, Shibapur, Kolkata during Jan 30-Feb 3,2007.
15. Attended a National workshop on Computer vision and pattern recognition using MAT Lab Organised by Department of Information Technology , RVR&JCCE during 21-22 April 2014.
16. Participated in AICTE recognized Short term course on Optimization using MATLAB through ICT, Organised by Department of Mechanical Engineering, RVR&JCCE during 17-21 July 2017.
17. Participated in AICTE recognized short term course on Artificial Neural Network & Fuzzy Logic through ICT conducted by Computer Science & Engineering Department from 24-28, April 2017 at RVR&JCCE.
18. Completed the short term training programme through ICT mode on Outcome based Education and Accreditation, Offered by National Institute of Technical Teachers’ Training and Research, Kolkata during 24-28 September,2018(1 Week) at RVR&JCCE.
19. Participated in the NPTEL workshop conducted by IIT Madras at RVR&JCCE on 07 December,2018.
20. Participated in the 3 Day Faculty Development programme on Student Induction Organised at Chadalawada Ramanamma Engineering College, Tirupati during 10-12, June 2019 offered by AICTE, South Central Regional Office, Hyderabad.
21. Attended a workshop on NBA Accreditation at RVR&JCCE organized by National Institute of Technical Teachers’ Training and Research (NITTR), Kolkata during 17- 21,June 2019.
22. Participated WEBINAR on Automotive structure during 30-4-2020 to 2-5-2020 organaized by APSSDC- Dassault system.
23. Participated WEBINAR on Machining Studies on Aluminum composites on 21-

5-2020 organized by School of Engineering and technology CMR University.

24. Participated WEBINAR on Application of Artificial Intelligence in Manufacturing Industry” on 21-5-2020 organized by Sri Sai ram Institute of technology, Chennai in association with MHRD and Institutions Innovation council.
25. Participated WEBINAR on Mechanical aspects of High voltage circuit breakers and isolative on 25/05/2020 organized by School of Engineering and technology CMR University.
26. Participated WEBINAR on Artificial Intelligence on 29-5-2020 organized by Department of CSE, RVR&JCCE in association with WILEY.
27. Participated in the international conclave on “ATMANIRBAR BHARAT-Role of New Education Policy” organized by Velagapudi Ramakrishna Siddhartha engineering College and in association with Nagarjuna Educational Society on 4<sup>th</sup> and 5<sup>th</sup> December 2021.

**H) Society Membership:**

1. Life Member of ISTE, New Delhi. LM8017
2. Life Member, Machines & Mechanisms, Bombay. LM089
3. Life Member, Condition Monitoring society of India. LM0600047
4. Life Member, International Association of Engineers. 126132

**I) Events organized / Actively Involved**

1. Organized A twoday National seminar on “March to Make in India Through Engineering Advancements during 29-30 September 2016.
2. Organized DST funded Entrepreneurship awareness camp during 12-14 September 2019 for CheE/CE/ME and MCA students.
3. Organized DST funded Entrepreneurship awareness camp during 9-11 December 2019 for ECE/EEE and MCA students.
4. Organized DST funded Entrepreneurship awareness camp during 13-15 February 2020 CSE/IT and MCA students

**J) Research Projects Handled:**

Completed UGC-MRP project entitled “Tool Condition Monitoring in Hard Turning using Acoustic Emission and Vibration Signature”, file.no: 42-895/2013(SR) as Principal Investigator worth 8.07 Lakhs.

**K) Patents:**

- Published a patent entitled “FC lawn Mover” on December, 2020.

**DECLARATION**

I hereby affirm that the details furnished above are true and correct to the best of my knowledge and belief.

Date:

Signature

A handwritten signature in blue ink, appearing to read "D. S. S.", is written on a light blue rectangular background.