

## **S.B. KARIMULLA REDDY**

Department : Mechanical Engineering  
College : Seshadri Rao Gudlavalleru Engineering College  
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**RESIDENTIAL ADDRESS:** S/O S.Venkata Reddy, door no 4-11C,  
Ganugapadu, Tiruvuru, N.T.R, A.P-521227.

### **ACADEMIC QUALIFICATIONS:**

<b>S.No</b>	<b>Qualification</b>	<b>Academic year</b>	<b>Institute</b>	<b>Marks %</b>
<b>1</b>	<b>S.S.C</b>	<b>2006-07</b>	<b>PBHS, TIRUVURU</b>	<b>90.83</b>
<b>2</b>	<b>INTERMEDIATE</b>	<b>2007-09</b>	<b>NALANDA JUNIOR COLLEGE, VIJAYAWADA</b>	<b>97.90</b>
<b>3</b>	<b>B.TECH(ME)</b>	<b>2009-13</b>	<b>ANU, GUNTUR</b>	<b>82.14</b>
<b>4</b>	<b>M.TECH(M.D)</b>	<b>2013-15</b>	<b>JNTUK, KAKINADA</b>	<b>84.59</b>
<b>5</b>	<b>Ph.D</b>	<b>2022-23 (JOINED)</b>	<b>ANU, GUNTUR</b>	<b>-</b>

### **ACADEMIC REWARDS / ACHIEVEMENTS:**

1. Topper in M.Tech in the Department of Mechanical Engineering, JNTUK, Kakinada in the batch 2013 – 2015, with Percentage of 84.59.
2. All India gate rank 6439.
3. Prathiba scholarship award 2009-2013.
4. Nptel topper in Mechanics of solids, Engineering Mechanics and Strength of Materials from various IIT's.
5. Nptel Elite certification in Engg Mechanics, Strength of materials, Mechanics of solids, Mechanical Vibrations and Introduction to composites from various IIT's.

6. Qualified in NITTTR Chennai Module IV Student assessment and Evaluation programme.
7. Siemens Certification on NX-7.5 modeling and analysis package.
8. Intermediate topper over DISTRICT level with 97.90%.
9. SSC Topper in MANDAL level.
10. 2<sup>nd</sup> prize in UTF TALENT TEST IN 10<sup>th</sup> standard.

**PROFESSIONAL EXPERIENCE:**

<b>Designation</b>	<b>Institution</b>	<b>Period</b>
Asst Professor	Seshadri Rao Gudlavalleru Engineering College	02-11-2015 to Till date

**PROJECTS GUIDED:**

<b>PhD</b>	<b>Post Graduation</b>	<b>Under Graduation</b>
Nil	3	15

**Department Responsibilities:**

- NBA Criteria 10 In-charge
- NBA Criteria 4 member.
- In-charge for Mechanics of Solids Lab.

**RESEARCH PAPERS / BOOKS:**

**PAPERS PUBLISHED IN JOURNALS: 12**

1. Dr L.Ramesh<sup>1\*</sup> A.Lakshmaiah, B.Thimothil , S.B.K.Reddy, M.Ujwal Teja “STRUCTURAL AND THERMAL ANALYSIS OF FINNED SURFACE OF AN IC ENGINE USING FINITE ELEMENT METHOD”, INTERNATIONAL JOURNAL OF RESEARCH IN AERONAUTICAL AND MECHANICAL ENGINEERING, July 2024 Volume 12 Issue 6 Pages 17-34.
2. A Lakshmaiah, B Thimothi, SBK Reddy, MDV Vara Prasad, L Ramesh “MODAL ANALYSIS OF COMPOSITE PLATE BY USING ANSYS”, INTERNATIONAL JOURNAL OF RESEARCH IN AERONAUTICAL AND MECHANICAL ENGINEERING, July 2024, Volume 12 Issue 7 Pages 01-11.

3. 1.S.B.K.REDDY, 2. G.V.JAGADEESH, "EFFECT FIBER ANGLE AND LAYER THICKNESS ON MECHANICAL BEHAVIOUR OF LAMINATED COMPOSITES". *Recent Advances in Materials Technologies*, Lecture Notes in Mechanical Engineering, [https://doi.org/10.1007/978-981-19-3895-5\\_20](https://doi.org/10.1007/978-981-19-3895-5_20). pages from 259 to 267.
4. 1. S.B.K. Reddy, 2. J. Sri Charan, 3. D. Jithendhar "SMART SOLAR SCARECROW" in *International Research Journal of Modernization in Engineering Technology and Science- Volume:05/Issue:06/June-2023*, e-ISSN: 2582-5208, Impact Factor- 7.868, pages from 3938 to 3940.
5. Mr. G V Jagadeesh, Mr. S B K Reddy "Investigation on Tribological Characteristics of Ball Burnished Mg Ze41A Alloy by ANOVA and ANFIS Techniques" in *ICAMEMS-2023* and publication in "Materials today: proceedings" *Journal Materials Today: Proceedings Volume 98 Pages 86-90*.
6. 1. Syed siddiq, 2. S.B.K REDDY, "Effect of silver nano particle and graphene powder on tribological properties of aluminium 7075 hybrid nano composites" |IJRAR MAY 2019, VOLUME 6, ISSUE 2, PAGE NO 491 TO 498.
7. 1. Syed siddiq, 2. S.B.K REDDY, "Effect of silver nano particle and graphene powder on Mechanical, Microstructural and dry wear Behaviour properties of aluminium 7075 hybrid nano composites" |IJRAR june 2019, VOLUME 5, ISSUE 6, PAGE NO 717 TO 725. ISSN 2395-1052.
8. 1. S.B.K.REDDY, 2. PAMARTHI HARISH, " INFLUENCE OF GRAPHENE AND ALUMINA ON MECHANICAL AND MICROSTRUCTURAL PROPERTIES OF AL 7075 BASED hybrid composites". *Journals of Advancement in Machines Volume 4 Issue 2* with pages from 10 to 22.
9. 1.P.Murai, S.B.K.Reddy, " Modeling of leaf spring contacts by finite element approach using lagrange multiplier method", | IJRAR, VOLUME 6, ISSUE 1 WITH E-ISSN 2348-1269 pages from 125 to 129.
10. S.B.K.REDDY, PAMARTHI HARISH, " Mechanical properties and Tribological Behaviour of Stir Cast Al-6063 alloy Based hybrid composites". *Journals of Advancement in Material Engineering Volume 4 Issue 2* with pages from 23 to 32.
11. U. Ranga Srinivasulu, S.B.K. Reddy "Finite Element Analysis of Thermally Induced Residual Stresses in Functionally Graded Materials(AL<sub>2</sub>O<sub>3</sub>/SiC/TiC)" in *IJRST International Journal for*

Innovative Research in Science & Technology | Volume 4 | Issue 2 | July 2017 ISSN (online): 2349-6010 .pages from 17 to 31.

12. Abhishek Kumar, S.B.K.REDDY, "Studies of Rock Bed Solar Thermal Storage System for Space Heating Applications" in IJETST-Vol. | |03| |Issue| |11| |Pages 4764 4770| |November| |ISSN 2348-9480.

#### **PATENTS PUBLISHED: 01**

1. Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 15-99 in respect of the application of such design to **SELF LUBRICATION SPUR GEAR** in the name of 1.Seshadri Rao Gudlavalleru Engineering College 2. Dr. Gogineni Venkata Jagadeesh 3.Meda Hemalatha 4.Dr. Subhashish Dey 5.Dr. T. Narasimha Suri 6.**S.B. Karimulla Reddy**. In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

#### **LIST OF WORKSHOPS ORGANIZED: 01**

- Organised one day workshop on "Metal matrix composites" held at gudlavalleru Engineering college.

#### **LIST OF WORKSHOPS / CONFERENCES / SEMINARS**

##### **Webinars/Online FDPs/FDP ATTENDED: 43**

1. Successfully participated & completed in A Collaborative one week ATAL Online Faculty Development Program (Joint-FDP) AICTE Training And Learning (ATAL) Academy Faculty Development Program on Machine Learning and its prospects in **Manufacturing & Industry 4.0** at SESHADRI RAO GUDLAVALLERU ENGINEERING COLLEGE from 10/02/2025 to 15/02/2025.
2. Successfully participated & completed in A Collaborative Two week Online Faculty Development Program (Joint-FDP) AICTE Training and Learning (ATAL) Academy Faculty Development Program on **Machine Learning Applications in Mechanical Engineering** at SESHADRI RAO GUDLAVALLERU ENGINEERING COLLEGE from 03/02/2025 to 14/02/2025.

3. Participated & completed successfully Online International Workshop on "**Advanced AI Tools for Research and Publications**" from 17-02-2025 to 19-02-2025 at Research and Publication Division, Scholars Gate - Research Training Institute, Tamil Nadu, India.
4. Attended a One-Week **National Workshop** (Online Mode) on "Smart Diagnostics: **AI and Machine Learning for Vibration Analysis in Machinery and Structures**" Organized by the Department of Mechanical Engineering, Gayatri Vidya Parishad College of Engineering (Autonomous), Visakhapatnam, from 11th - 15th November, 2024.
5. Participated in **A Collaborative Five Day Online Faculty Development Program (Joint-FDP) on Recent Trends in Digital Manufacturing Technologies: Scope, Impact and Applications**" organized by the Department of Mechanical Engineering, **GMRIT**, Rajam, **Vijayanagaram, Andhra Pradesh**, India organized from **21st to 25th October, 2024**.
6. Participated Two week online faculty development programme on "**INDUSTRY 4.0/5.0**" organized by the Department of Mechanical Engineering, **Prasad V. Potluri Siddhartha Institute of Technology, Kanuru, Vijayawada, Andhra Pradesh – 520007**, India organized from **15.04.2024 to 27.04.2024**.
7. Attended Five days hands on training programme on "Arduino applications in Engineering" organized by department of Mechanical Engineering, **Seshadri Rao Gudlavalleru Engineering college** from 11<sup>th</sup> to 16<sup>th</sup> March 2024.
8. Participated one week faculty development programme on Advancements in Mechanical Engineering organized by the Department of Mechanical Engineering, **Lakireddy Bali Reddy College of Engineering, Mylavaram, Krishna (Dt.), Andhra Pradesh, India** organized from 19/06/2023 to 24/06/2023.
9. Participated one week faculty development programme on "INNOVATIONS IN MECHANICAL ENGINEERING" organized by Department of Mechanical Engineering, **Vasireddy Venkatadri Institute of Technology**, Nambur from 26-12-2022 to 30-12-2022.

10. Attended Five days faculty skill development programme on “CATIA” organized by department of Mechanical Engineering, **Seshadri Rao Gudlavalleru Engineering college** from 18th to 30th July 2022.
11. 4.Attended one day Hands on training programme on “ANSYS Workshop - A Hands-on Introduction to Finite Element Analysis” organized by **IIT MADRAS** on 19<sup>th</sup> March 2022.
12. Attended and Presented a paper in Two day International conference on “Recent contributions in Mechanical Engineering” organized by **Department of ME, SRGEC**, Gudlavalleru On 25<sup>th</sup> & 26<sup>th</sup> February 2022
13. Attended one day faculty development programme on “Powder Metallurgy Technologies - A perspective in Automobile, Defence and Space sectors” organized by department of Mechanical Engineering, **Sree Vidyanikethan Engineering College** (Autonomous), Tirupati, AP, India on 20<sup>th</sup> October 2021.
14. Attended one day webinar on “Composite Materials for Future” organized by department of Mechanical Engineering, **CMR university** On 03<sup>rd</sup> September 2021.
15. Attended Five days faculty development programme on “Research trends in Thermal Engineering” organized by department of Mechanical Engineering, **Seshadri Rao Gudlavalleru Engineering college** from 06<sup>th</sup> to 10<sup>th</sup> September 2021.
16. Attended and Presented a paper in Two day International conference on “Energy and Materials Technologies” organized by **SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING** On 20<sup>th</sup> & 21<sup>st</sup> August 2021.
17. Attended one day webinar on “Composite Materials for Future” organized by department of Mechanical Engineering, **CMR university** On 03<sup>rd</sup> September 2021
18. Attended one week faculty development programme on “NEW AGE MATERIALS & TECHNOLOGIES” organized by department of Mechanical Engineering, **Sree Vidyanikethan Engineering College** (Autonomous), Tirupati, AP, India from 04<sup>th</sup> to 08<sup>th</sup> October 2021.

19. Attended Three days faculty development programme on “Research trends in Electrical Vehicles Phase-I” organized by department of Mechanical Engineering, **Gudlalleru Engineering college** from 17<sup>th</sup> to 19<sup>th</sup> March 2021.
20. Attended one week STTP on “ADDITIVE MANUFACTURING FOR MEDICAL AND AEROSPACE APPLICATION” organized by department of Mechanical Engineering, **Shri Vishnu Engineering college for Womens** from 04<sup>th</sup> to 09<sup>th</sup> January 2021.
21. Certified and Attended one and half week FDP by NPTEL for completing the course "**Kinematics of Machines and Mechanisms**", with successfully completed certificate.
22. Certified and Attended one and half week FDP by NPTEL for completing the course "**Introduction to composites**", with a score of 73% and stood elite certificate.
23. Attended three days national level webinar on “Intellectual property rights and patents a view ” organized by department of Mechanical Engineering, **Gudlalleru Engineering college** from 10<sup>th</sup> to 12<sup>th</sup> August 2020.
24. Attended one week online faculty development programme on “Research developments in Mechanical Engineering” organized by department of Mechanical Engineering, **Prasad V. Potluri Siddartha Institute of Technology** from 10<sup>th</sup> to 14<sup>th</sup> August 2020.
25. Attended one week faculty development programme on “Research trends in Mechanical Engineering” organized by department of Mechanical Engineering, **Gudlalleru Engineering college** from 15<sup>th</sup> and 20<sup>th</sup> June 2020.
26. Attended two day faculty development programme on “Quality control and Testing of weldments” organized by department of Mechanical Engineering, **Godavari institute of Engineering and Technology** on 26 and 27<sup>th</sup> May 2020.
27. Attended one week faculty development programme on “Development and Characterization of Composite Materials” organized by department of Mechanical Engineering, **Lingyas institute of Technology** from 25<sup>th</sup> to 29<sup>th</sup> May 2020.

28. Attended one day webinar on “Research thrust areas in composites” organized by department of Mechanical Engineering, **Arasu Engineering college** On 20<sup>th</sup> May 2020.
29. Attended one day webinar on “Advanced Material processing” organized by department of Mechanical Engineering, **Narsaraopeta Engineering college** On 04<sup>th</sup> June 2020.
30. Attended one day webinar on “Machining studies on Aluminum composites” organized by department of Mechanical Engineering, **CMR university** On 21<sup>st</sup> May 2020.
31. Participated in “ Two day Faculty Development programme” on “Advances in Manufacturing” during 16-18 Nov 2018, held in **Gudlalleru Engineering college**.
32. Participated in “ One week Refresher Course on Computational Fluid Dynamics Sponsered by AICTE-ISTE” during 18-23 June 2018, held in **Gudlalleru Engineering college**.
33. Participated in “one week refreshing course on “Finite element methods” during 19-24 june 2017, organized by department of Mechanical Engineering, **Gudlalleru Engineering College**.
34. Participated in one day workshop on “NATURAL RESOURCES OF A.P” notified by Ministry of Environment, Forest & climate change, Govt. of India from 22-28 April 2015 **in JNTUK**.
35. Participated in three days national workshop on “ADVANCES AND APPLICATIONS OF CFD “Held on 10-12 April 2014 at **JNTUK**.
36. Participated in Two day National workshop on “ADVANCED MATERIALS AND PROCESSES” Held on 4-5<sup>th</sup> April 2014 in **JNTUK**.
37. Participated in three days national workshop on “COMPOSITE MATERIALS” held in **JNTUK**.
38. Participated in three days national workshop on “ENERGY AND ENVIRONMENT” held in **JNTUK**.
39. Undergone work shop on “TEACHING METHODOLOGIES” in engineering subjects held in **JNTUK**.
40. Attended two day faculty development programme on “Training on Proge Cad” organized by department of Mechanical Engineering, **Gudlalleru Engineering College**.
41. Attended three day workshop on "MAT LAB" organised by department of Mechanical Engineering, **Gudlalleru Engineering College**.



42. Attended training programme on “Fire and Safety” held at **Bapatla Engineering College**.
43. Attended one day workshop on "NPTEL Awareness program" organised by department of Mechanical Engineering, **Gudlalleru Engineering College**.

#### **CERTIFICATIONS:**

1. Got certification from Department of English on completing Three levels of FDP on **Oral, Written & Scholarly communication** from ELT center, **Seshadri Rao Gudlalleru Engineering college**.
2. Got certificate of appreciation in a **national level quiz** on basics of Mechanical Engineering held by Lakireddy Bali Reddy college of Engineering on 16<sup>th</sup> June 2020 with a score of 75%.
3. Certified by **NPTEL** for completing the course "**Mechanics of Solids**", with a score of 86% and stood 4<sup>th</sup> position.
4. Certified by **NPTEL** for completing the course "**Engineering Mechanics**", with a score of 74% and stood in top 5 % .
5. Certified by **NPTEL** for completing the course "**Strength of Materials**", with a score of 88% and stood in top 5 %.
6. Certified by **NPTEL** for completing the course "**Mechanical Vibrations**", with a score of 84% and stood elite certificate.
7. Certified by **NPTEL** for completing the course "**Kinematics of Machines and Mechanisms**", with successfully completed certificate.
8. Certified by **NPTEL** for completing the course "**Introduction to composites**", with a score of 73% and stood elite certificate.
9. Certified by **NITTTR** for completing the course "**Student assessment and Evaluation**", with successfully completed certificate.
10. Trained on **Siemens “PLM NX-7.5”** certification design software program

**Subjects taught:**

Solid Mechanics, Design of Machine Members, Machine Drawing, Dynamics of Machines, Design of Transmission Elements, Green Engineering, Elements of Mechanical Engineering, Engineering Drawing, Basic Mechanical Engineering and Design for Manufacturing.

**Labs handled:**

Solid Mechanics lab, Engineering workshop, Computer aided design lab, Machine Dynamics lab, Engineering Mechanics lab, Computer aided Machine Drawing lab and Computer aided Analysis lab.

**S.B.Karimulla Reddy**