

## **FACULTY PROFILE**

**Name of the faculty:** K.VINDHYA SMITHA  
**Department:** Electrical & Electronics Engineering  
**College:** S.R Gudlavalleru Engineering College  
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**RESIDENTIAL ADDRESS:** D.No 3/196-3,Beside Corporation Bank,  
Gudlavalleru-521356,A.P

**ACADEMIC QUALIFICATIONS:** M.Tech(E.P.E),B.Tech(E.E.E)

**ACADEMIC REWARDS / ACHIEVEMENTS:-** NIL

**PROFESSIONAL EXPERIENCE:**

<b>Designation</b>	<b>Institution</b>	<b>Period</b>
Associate Professor	SRGEC,Gudlavalleru	01-07-2008 to till date
Assistant Professor	GEC,Gudlavalleru	11-12-2002 to 30-06-2008

**PROJECTS GUIDED:**

<b>PhD</b>	<b>Post Graduation</b>	<b>Under Graduation</b>
NIL	9	24

**SPECIALIZATION:**

ELECTRICAL POWER ENGINEERING

**RESEARCH PAPERS / BOOKS:** NIL

**BOOKS PUBLISHED IN PUBLICATIONS:** NIL

**PAPERS PUBLISHED IN JOURNALS:**

1. "Operation of Grid Connected PV Battery-Wind Driven DFIG based System" ,Indian Journal of Technical Education, ISSN 0971-3034,Volume 12,Issue 1, April 2024.

2. "Performance Of Hybrid System And EV Based Grid Connected System", Industrial Engineering Journal, ISSN 0970-2555, Volume: 52, Issue 4, April 2023.
3. "Design of Repetitive Controller for Modular Multilevel Converter" International Research Journal of Engineering and Technology, ISSN 2395-0072, Vol.2, Issue 8, Pg no 765-771, November 2015.
4. "Enhancement of Photovoltaic Systems with Cascaded Modular Multilevel Converters Using Fuzzy Controller" International Research Journal of Engineering and Technology, ISSN 2395-0072, Vol.2, Issue 8, Pg no 1191-1197, November 2015.
5. "Power Quality Improvement using UPQC by Three Phase Four Wire Reduced DC link voltage", International Journal of Electrical and Electronics Engineering (IJEE) ISSN: 2319-8885 Vol-4, Issue-5, Pg no 122-128, 2014
6. "Design of tuning methods for fractional order  $PI^{\lambda}D_{\mu}$  controller using PSO algorithm", International Journal for Research in Applied Science and Engineering Technology (IJRASET), ISSN: 2321-9653, Vol.2, issue XII, Pg no 436-442, Dec 2014.
7. "Optimal Control of Subsynchronous Resonance by using LQR Controller", International Journal of Multidisciplinary Educational Research (IJMER), ISSN: 2277-7881.
8. "Improvement of Power Quality using Repetitive Controller for Dynamic Voltage Restorer", International Journal of Science & Research (IJSR), ISSN(online): 2319-7064, Vol.2, Issue 11, November 2013.
9. "A Two stage and isolated Bridgeless AC/DC converter", International Journal of Innovative Research & Development, ISSN 2278-0211, October 2012.
10. "Comparative Performance Evaluation Of Different Control Strategies Adapted To Buck Type Pulse Width Modulated Dc-Dc Converter Feeding To Dc Motor Drive" CEWE (International Journal), Id: 978-81-922442-1-1 September 2011.
11. "Zener Diode Characteristics of Loadlines using MATLAB", Lab Experiments National Journal, ISSN 0972-605535, Vol.-10, No.3, September 2010.
12. "Maximum Power Transfer Theorem Using MATLAB", Lab Experiments National Journal, ISSN 0972-605535, Vol.-10, No.2, June 2010.

**PAPERS PUBLISHED IN CONFERENCES/WORKSHOPS: NIL**

**LIST OF WORKSHOPS ORGANIZED:**

Refresher Course on "ELECTRIC CIRCUIT ANALYSIS" during 09-06-2014 to 12-06-2014.

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

1. A one-week Faculty Development Programme (FDP) on “Applied Research on Renewable Energy Sources and Micro grids” organized by Department of Electrical and Electronics Engineering, Gudlavalleru Engineering College from 18-11-2019 to 23-11- 2019.
2. Attended a five day faculty development programme on "Application of Artificial Intelligence and Soft computing Techniques in Electrical Engineering" during 13<sup>th</sup> -17<sup>th</sup> November 2018 at Gudlavalleru Engineering College, Gudlavalleru.
3. Attended two week Short Term Training Programme on “Electric Power System” during 10<sup>th</sup> -15<sup>th</sup> July 2017 at Gudlavalleru Engineering College, Gudlavalleru.
4. Attended a two day staff Training Programme on “MATLAB TOOLS FOR ENGINEERS-HANDS ON EXPERIENCE” during 10<sup>th</sup> -11<sup>th</sup> January 2017 at Gudlavalleru Engineering College, Gudlavalleru.
5. Attended a one week workshop on “Advanced Industrial Automation Training” during 14<sup>th</sup> - 18<sup>th</sup> November 2016 at Gudlavalleru Engineering College, Gudlavalleru.
6. Attended a one day workshop on “Power System Simulation Tool Software” on 23<sup>rd</sup> July 2016 at Gudlavalleru Engineering College, Gudlavalleru.
7. Attended a Refresher Course on “Pedagogy on Machines and Power Systems” during 9<sup>th</sup> - 15<sup>th</sup> May 2016 at Gudlavalleru Engineering College, Gudlavalleru.
8. Attended a one day seminar on “Renewable Energy Resources for Sustainable Development” on 24<sup>th</sup> February 2016 at Gudlavalleru Engineering College, Gudlavalleru.
9. Attended a workshop on “Emerging Trends in Research Areas of Electrical Engineering” during 7<sup>th</sup> -11<sup>th</sup> December 2015 at Gudlavalleru Engineering College, Gudlavalleru.
10. Attended a workshop on “ETAP Software Training and its Applications” during 2<sup>nd</sup> -8<sup>th</sup> June 2015 at Gudlavalleru Engineering College, Gudlavalleru.
11. Attended a Refresher Course on “Pedagogy on Power Systems and Drives” during 18<sup>th</sup> -30<sup>th</sup> May 2015 at Gudlavalleru Engineering College, Gudlavalleru.
12. Attended a two week work shop on “Control systems” on 2<sup>nd</sup> -12<sup>th</sup> December 2014 at Gudlavalleru Engineering College, Gudlavalleru.
13. Two day workshop on “Emerging Trends in Control of Electric Drives” on 22<sup>nd</sup> & 23<sup>rd</sup> June 2012 at Gudlavalleru Engineering College, Gudlavalleru.

14. Six day Training Programme in “ Advanced Control Systems” during 23<sup>rd</sup> to 28<sup>th</sup> January 2012 at V.R.S.E.C, Vijayawada organized by A.P.S.C.H.E in association with JT University, Kakinada.
15. One day workshop on “Application of Wavelets in Electrical Engineering” on 23<sup>rd</sup> October 2010 at Gudlalleru Engineering College, Gudlalleru.
16. AICTE sponsored one day National Seminar on “Non-Conventional Energy Sources” on 24<sup>th</sup> October 2009 at Gudlalleru Engineering College, Gudlalleru.
17. Three day AICTE sponsored National Conference on “Emerging Trends in Electrical Engineering for sustainable development” during 24<sup>th</sup> to 26<sup>th</sup> December, 2008 at Gudlalleru Engineering College, Gudlalleru.
18. One day National Level Workshop on “Electro Magnetic Transient Programme (EMTP) Applications to Power Systems” on 7<sup>th</sup> December 2007 at V.R.Siddhartha Engineering College, Vijayawada.
19. One day National Seminar on “Power System Operation & Computer System Functions in Grid Management” on 27<sup>th</sup> October 2007 at Gudlalleru Engineering College, Gudlalleru.
20. Three day workshop on “Recent Advances in Power System Protection” from 29<sup>th</sup> to 31<sup>st</sup> March 2007 at NIT Warangal.
21. One day workshop on “Student feedback & performance appraisal” on 17<sup>th</sup> Feb 2007 at Gudlalleru Engineering College conducted by National Institute for Technical Teachers Training and Research, Chennai.
22. One day workshop on “Career Counseling” on 20<sup>th</sup> January 2007 at Gudlalleru Engineering College conducted by National Institute for Technical Teachers Training and Research, Chennai.
23. “Guidance & counseling for teachers on their teaching, individually” during 30<sup>th</sup> June to 1<sup>st</sup> July, 2007 at Gudlalleru Engineering College conducted at National Institute for Technical Teachers Training and Research, Chennai.
24. One day workshop on “Recent Developments in Power System Operation” on 15<sup>th</sup> September 2006 at Lakki Reddy Bali Reddy College of Engineering, Mylavaram.
25. Three day workshop on “Distribution Automation Recent Trends-DART 2005” from 28<sup>th</sup> to 30<sup>th</sup> October 2005 at JNTU College of Engineering, Anantapur.

26. One day workshop on “Recent Trends on FACTS” conducted by IEEE Hyderabad Section PEs/IES Joint Chapter, Hyderabad on 6<sup>th</sup> October 2005.
27. One day workshop on “Center of Energy Research” conducted by Aurora’s Engineering College, Bhongir on 25<sup>th</sup> February 2005.
28. Six day workshop on “Instructional Design & Delivery” from 21<sup>st</sup> to 26<sup>th</sup> April 2003 at Gudlavalleru Engineering College conducted by National Institute for Technical Teachers Training & Research, Chennai.

### **LIST OF ONLINE FDPs ATTENDED:**

1. An AICTE Training And Learning (ATAL) Academy Faculty Development Program on “AIEMPOWERED ELECTRIC VEHICLES IN SMART GRID SYSTEM: CHALLENGES AND OPPORTUNITIES” at SHRI VISHNU ENGINEERING COLLEGE FOR WOMEN(Online) from 10/02/2025 to 15/02/2025.
2. A one-week Faculty Development programme (FDP) on “PLC HMI(Human-Machine Interface) Design and Integration” organized by Department of Electrical and Electronics Engineering, Seshadri Rao Gudlavalleru Engineering College in association with Indwell Automation,Mangaluru from 1st – 6th July 2024.
3. A one-week online Faculty Development Programme on “Intelligent Control of Electrical Systems using Machine Learning” organized by Department of Electrical and Electronics Engineering, Seshadri Rao Gudlavalleru Engineering College from 16th – 20th October 2023.
4. A one-week Faculty Development Programme on “Advances in Renewable Energy & Electric Vehicles” organized by Department of Electrical and Electronics Engineering, Seshadri Rao Gudlavalleru Engineering College from 20th – 24th February 2023.
5. A 40 Hour Online Faculty Development Programme on “Advances in Optimization and control of Electrical Engineering systems” Sponsored by Ministry of Electronics and Information Technology(MeitY) GoI organised by E&ICT academy, NIT Warangal and SRGEC during 11-20 July 2022.
6. A one-week AICTE sponsored Short Term Training Program on “Automation and Intelligent Control of Electrical Systems – Phase-II” organized by Department of Electrical and Electronics Engineering, Gudlavalleru Engineering College from 21st -26th September 2020.

7. A TEQIP-III Sponsored Faculty Development Programme on “Power Electronic Applications to Renewable energy systems and Energy storage systems” organized by Department of Electrical and Electronics Engineering, The National Institute of Engineering, Mysuru from 06th – 10th July 2020.
8. A one-week online Faculty Development Programme (FDP) on “Applied Research in Electric Vehicle Technologies” organized by Department of Electrical and Electronics Engineering, Gudlavalleru Engineering College from 15th – 20th June 2020.
9. A one-week AICTE sponsored Short Term Training Program on “Automation and Intelligent Control of Electrical Systems – Phase-I” organized by Department of Electrical and Electronics Engineering, Gudlavalleru Engineering College from 03-08- 2020 to 08-08-2020.
10. A five day Technical Education Quality Improvement Programme (TEQIP-III) sponsored Faculty Development Programme on “Power Electronic Applications to Renewable energy systems and Energy storage systems” organized by THE NATIONAL INSTITUTE OF ENGINEERING, Mysuru from 06-07-2020 to 10-07-2020.
11. A one-week online Faculty Development programme on “Applied Research in Electric Vehicle Technologies” organized by Department of Electrical and Electronics Engineering, Gudlavalleru Engineering College from 15-06- 2020 to 20-06-2020.
12. A two-day online faculty development program on “MATLAB and Simulink in Engineering Education” organized by Andhra Pradesh State Skill Development Corporation (APSSDC) in collaboration with Capricot and Mathworks from 10-06-2020 to 11-06-2020.
13. A one-week online Faculty Development programme on “POWER ELECTRONICS APPLICATIONS IN SMART GRID AND ELECTRIC VEHICLES” organized by Department of Electrical and Electronics Engineering, Santhiram Engineering College, Nandyal from 26-05- 2020 to 31-05-2020.

**CERTIFICATIONS:** NIL

**GUEST LECTURES DELIVERED:** NIL

**MEMBERSHIP IN PROFESSIONAL BODIES:** M.I.E.T.E, Life Member I.S.T.E

**CONSULTANCY ACTIVITIES:** NIL

**GRANTS FETCHED:** NIL