

### Bio-Data

1. Name (in Full): Narreddy Swathi
2. Father's Name : N Ramakrishna Reddy
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4. Address Door No : 1/13,Nallaballe,Muddanur  
Y.S.R. Kadapa.
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**VIDWAN:** <https://vidwan.inflibnet.ac.in/profile/466396>

### 10. Qualifications:

Course	Name of the Institution studied	Name of the University / Board	Year of graduation	Percentage
<b>M.Tech /M.E</b>	JNTUA College of Engineering, Anantapuramu	Jawaharlal Nehru Technological University Anantapuramu.	2014	76.14
<b>B.Tech /B.E</b>	SVIST College, Kadapa	Jawaharlal Nehru Technological University Anantapuramu.	2011	68.58
<b>Intermediate</b>	Sri Sai Ram Junior College, Kadapa	Board of Intermediate Education, A.P.	2007	89.00
<b>SSC</b>	APR School Mylavaram, Kadapa.	Board of Secondary Education, A.P.	2005	88.00

### 11. Publications:

1. N.Swathi,R.Kiranmayi,M.Swetha” Design of Centralized PID Control System for Two Variable Processes based on Root Locus Technique” International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Volume-9 Issue-1, November 2019.
2. N.Swathi,R.Kiranmayi, K. Nagabhushanam, K. Naveen Kumar” Pi/Pid Controller Design For Multi-Loop Processes Based On Their Minimum Phase Transfer Function Model”, Pensee, Issn: 0031-4773, Volume 51, Issue 4 2021.
3. N.Swathi,R.Kiranmayi, K. Nagabhushanam, Rowthu. Hemanth Kumar” Cascaded Multilevel Inverter with Output Voltage Regulation Techniques to Reduce Harmonic Distortion and Power Quality Improvement in Solar Panel”, Design Engineering, ISSN: 0011-9342 | Year 2021 Issue: 8 | Pages: 8203-8222.
4. N.Swathi,R.Kiranmayi, K. Nagabhushanam,P.karunya” Adaptive Droop Control Method by Using Fopid Controller to Implement Grid Regulation for Industrial Microgrid”, Design Engineering, ISSN: 0011-9342 | Year 2021 Issue:9 | Pages: 17019-17032.

5. N.Swathi,R.Kiranmayi,K.FidoseKowserAhamadia,K.Dhanusha"FO-PID based adaptive power oscillation damping controller for a hybrid AC/DC Micro-grid".Design Engineering, ISSN: 0011-9342 | Year 2022 Issue:1 | Pages: 3758-3779.
6. N.Swathi,R.Kiranmayi,K.Mohammad Ali,"Neural Network Based Multi-Output Dc-Dc Converter ForElectric Vehicle Application"Journal of Systems Engineering and Electronics, ISSN NO: 1671-1793,Volume 34, ISSUE 5 2024.
7. N.Swathi,R.Kiranmayi,R.Lakshmana,, "Fuzzy Logic Controller Fed Coordinated Control Strategy For HybridPower System Based On Variable Speed Diesel Generator"Journal of Systems Engineering and Electronics, ISSN NO: 1671-1793,Volume 34 ISSUE 5, 2024.

## 8. Conferences/ FDPs /Workshops/Training programs attended

### Conferences:

1. N.Swathi,R.Kiranmayi,J.Kavya "Improved Fractional Filter IMC-PID Controller Design for SISO and MIMO Process" in the IEEE sponsored Second International Conference on Electrical, Electronics, Information and Communication Technologies(ICEEICT 2023) organized by the Department of Electrical and Electronics Engineering, K. Ramakrishnan College of Engineering,Tiruchirappalli, Tamil Nadu, India during 22 – 24,February 2023.
2. N.Swathi, B.Naga Sireesha "Speed Control Of Brushless DC Motor Using Hybrid ANFIS-FOPID Controller" in the IEEE sponsored Second International Conference on Electrical, Electronics, Information and Communication Technologies(ICEEICT 2023) organized by the Department of Electrical and Electronics Engineering, K. Ramakrishnan College of Engineering,Tiruchirappalli, Tamil Nadu, India during 05 – 07, April 2023.
3. N.Swathi,R.Kiranmayi, A.Divya Teja "Simplified Decoupler Based Fractional Order PID Controller for Two Variable Fractional Order Process", International Conference on Artificial Intelligence for Smart Community, 2022

### FDP:

1. Participated in A Five-day Professional Development Programme on **"EV Design and Applications to Aerospace Systems"** during 25-11-2024 to 29-11-2024, organized by Department of Electrical and Electronics Engineering, JNTUA College of Engineering (Autonomous), Ananthapuramu, Andhra Pradesh in association with Aeronautical Society of India - Bangalore Branch, IEEE Ananthapuramu Subsection and IEEE Reliability Society, Hyderabad Section.
2. Participated in ATAL FDP on**"Electric Vehicle Technologies"** from 26-08-2024 to 31-08-2024 organized by Department of Electrical and Electronics Engineering, , P.V.K.K. Institute of Technology, Anantapuramu.
3. Participated in 5 day Faculty Development Program on **"Design and development of power converters for electric vehicles"**, from11-09-2023to15-09-2023, organized by Department of EEE, JNTUACEA in association with ISTE-AP Section and IEEE Anantapur Subsection.
4. Participated in one week National level Faculty Development Program on **"Recent trends in green energy initiatives and soft computing techniques"**, from 11-07-2023 to 15-07-2023, organized by Department of

Electrical and Electronics Engineering, Mahatma Gandhi Institute of Technology, Gandipet, Hyderabad.

5. Participated in one week National level online Hands on Faculty Development Program on **“Emerging technologies in electrical engineering”**, from 28-11-2022 to 02-12-2022, conducted by the Department of EEE, PACE Institute of Technology and sciences, Ongole.
6. Participated in one week Online Faculty Development Program on **“Recent Advances in Electrical Engineering”**, during 17-10-2022 to 21-10-2022, organized by Electrical and Electronics Engineering Department in association with IEEE Ananthapuramu subsection and IEEE student branch of G.Pulla Reddy Engineering College (Autonomous), Kurnool.
7. Participated in 4 Day Online Faculty Development Program on **“Challenges and Opportunities of Energy and Sensor Applications”**, during 23<sup>rd</sup> - 26<sup>th</sup> Sept., 2020, organized by Department of EEE, JNTUACEA under TEQIP – III.
8. Participated in a 5 Day Faculty Development Program on **“Basics of PLC”** from 02<sup>nd</sup> to 06<sup>th</sup> March 2020 held at JNTUA College of Engineering, Ananthapuramu (SIEMENS).
9. Participated in a 5 Day Faculty Development Program on **“Awareness on Electric/Hybrid Vehicle Engineering”** “from 21<sup>st</sup> – 25<sup>th</sup> January 2020 held at JNTUA College of Engineering, Ananthapuramu.
10. Participated in One week faculty development program on **“Power Converters Design”**, held at JNTUA College of Engineering, Ananthapuramu, from 25<sup>th</sup>-29<sup>th</sup> September, 2019.
11. Participated in MeitY, Govt. of India, Sponsored one Week Faculty Development Programme on **“Design And Development Of MOOCS through SWAYAM”** “organized by E&ICT Academy, NIT Warangal at JNTUA College of Engineering Ananthapuramu, from 18<sup>th</sup> January- 23<sup>rd</sup> January, 2019.
12. Participated in one Week Faculty Development Programme on **“Soft Skills and Personality Development”** “held at JNTUA College of Engineering Ananthapuramu, during 10-14 December, 2018

#### **Workshops:**

1. Participated in the workshop on **“VLSI to system design: Silicon to End application approach”**, organized by AICTE, Arm education and STMicroelectronics from 31<sup>st</sup> July to 4<sup>th</sup> Aug 2023.
2. Participated in a Two day workshop on **“Development of MOOCs and Production Techniques”**, during 17<sup>th</sup> and 18<sup>th</sup> January, 2020 at held at JNTUA College of Engineering, Ananthapuramu.
3. Participated in one day workshop On **“Awareness on Career Growth prospects for reliability Engineering Professional with Industry Collaboration”**, held at JNTUA College of Engineering, Ananthapuramu on 21<sup>st</sup> June 2019.
4. Participated A One Week National Level Workshop on **“Research Challenges and Application of Computational Tools in Electrical Engineering”** conducted during 10<sup>th</sup> –15<sup>th</sup> August 2020 held by VIGNAN’S NIRULA INSTITUTE OF TECHNOLOGY AND SCIENCE FOR WOMEN.

5. Participated in two-day workshop On “**Pedagogical Skills for Outcome Based Education**” held at JNTUA College of Engineering Ananthapuramu on November 16-17, 2018.
6. Participated in two day workshop On “**Big Data Applications in Power Systems**” held at JNTUA College of Engineering, Ananthapuramu on September 28-29, 2018.
7. Participated in one day workshop On “**Benefits of Engaging with International Organizations (IEEE)**”, held at JNTUA College of Engineering, Ananthapuramu on 4<sup>th</sup> August, 2018.

#### **Training Programs:**

1. Attended in one day training program Organized by JNTUA, Ananthapuramu and Microsoft Corporation India in association with Andhra Pradesh State Council of Higher Education Under Faculty Development Program on New Technologies in the area of “**Microsoft Azure AI fundamentals**” on 21-06-2022.
2. Attended in one day training program Organized by JNTUA, Ananthapuramu and Microsoft Corporation India in association with Andhra Pradesh State Council of Higher Education Under Faculty Development Program on New Technologies in the area of “**Microsoft Azure Fundamentals**” on 20-06-2022.
3. Participated in Phase-II of the AICTE sponsored online one week Short Term Training Program (STTP) on “**Recent Challenges & emerging Opportunities in Electric Vehicles**” from 7-12-2020 to 12-12-2020 organized by Department of Electrical and Electronics Engineering, Pragati Engineering College.
4. Attended Online Short-Term Training Program On “**Sustainable Energy Systems Design for Remote Villages in India**”, organized by Department of Electrical Engineering, National Institute of Technology Raipur in association with VEC Lakhanpur, CSVTU during 14-09-2020 to 18-09-2020.

#### **NPTEL/SWAYAM Certificates:**

Sl.NO.	Duration/Exam date	COURSE Name
1.	Jul-Oct2024 (12 weeks course)	Smart grid: Basics to advance technologies
2.	26-02-2023	Research and Publication Ethics (RPE)

#### **Edx Certificates:**

S. No.	Title of the online certificate course completed	Offered by the organization/platform	Duration, specify dates
1.	Happiness: Managing Happiness	Edx-HarvardX	6 weeks
2.	Soft Skills: Develop Interpersonal Skills	Edx-IBM	6 weeks
3.	Climate Change: Carbon Capture and Storage	Edx-The university of Edinburg	5 weeks

## 9. Work Experience:

S.NO.	Name of the Organization	Position Held	Years of Experience	Nature of work done
1.	Priyadarshini Institute of Science and Technology	Assistant Professor	01 Year 6 months	Teaching
2.	JNTUA College of Engineering, Ananthapur.	Assistant Professor(Ad hoc)	06 years 8months	Teaching

## 10. Subjects (Courses taken/Projects Guided) for B.Tech and M.Tech:

### SUBJECTS TAUGHT:

- Linear And Digital IC Applications
- Microprocessors and Microcontrollers
- Electrical Machines-III
- Problem Solving & Programming
- Electrical Engineering-PART-A
- Renewable Energy Systems
- Measurements & Sensors
- Software Reliability
- Intelligent Algorithms
- PLC & Automation
- Adaptive Control

**Academic Projects Guided:** M.Tech project guided-6

B.Tech projects guided-2

### M.Tech Projects Guided:

Sl.No	Title of the Project	Year
1.	Fuzzy Logic Controller Fed Coordinated Control Strategy For Hybrid Power System Based On Variable Speed Diesel Generator	2024
2.	Neural Network Based Multi-Output Dc-Dc Converter For Electric Vehicle Application	2024
3.	FO-PID based adaptive power oscillation damping controller for a hybrid AC/DC Micro-grid	2024
4.	Speed Control Of Brushless DC Motor Using Hybrid ANFIS-FOPID Controller	2023
5.	Aggregation of EVs for Power Improvement Using FOPID Controller to An Industrial Microgrid	2022
6.	Design Of Centralized PID Control System For Two Variable Process Based On Root Locus Technique	2019

**B.Tech Projects Guided:**

Sl.No	Title of the Project	Year
1.	A Multifunctional Solar PV and Grid based On-Board Converter for Electric Vehicles	2024
2.	Implementation Of Universal Converter	2023

**14. Administrative work supported:**

- Performed Invigilation duties for different exams  
(End semester examinations, CIVILS PRELIMS, APSPRB Exam...etc)
- NBA work for the department of EEE in the years 2019, 2021.
- NAAC work for JNTUA in the year 2024.
- NIRF ranking work.

**(N.SWATHI)**