| Name: | A. Adithya Kashyap | |
|--------------|---|--|
| Designation: | Assistant Professor | |
| Department: | Electronics & Instrumentation Engineering | |
| E-Mail ID: | adithyakashyap_a@vnrvjiet.in | |



Experience (in years): Teaching: 10 **Research:** 03 **Industry:** 01

1 Educational / Technical qualifications:

| S.No | Level (UG / PG / Ph.D) | Year of passing | Specialization | |
|------|---------------------------|-----------------|---------------------------------------|--|
| 1. | Ph.D | Pursuing | Process Control | |
| 2. | M.Tech | 2010 | Industrial Process Instrumentation | |
| 3. | B.Tech | 2007 | Instrumentation & Control Engineering | |

2 Teaching and Learning:

2.1 Teaching Interests:

Transducers & Applications, Fiber Optics & Laser Instrumentation, Linear Integrated Circuit Applications, Process Control Instrumentation, Sensors and Signal Conditioning, Instrumentation and Control Systems, Virtual Instrumentation, PC Based Instrumentation, Electronic Measurements and Instrumentation, Signals & Systems, Computer Organization, Basic Electronics.

- 2.2 Novel Teaching & Learning Techniques adopted: POGIL, WIT & WIL.
- 2.3 Involvement in curriculum updating / Design: Involved in design of Syllabus for Sensors & Signal Conditioning Subject and design of Lab manuals & Lab protocols.

3 Co-curricular and Extra-Curricular Activities:

- **3.1 Interests and Hobbies:** Reading books.
- **3.2 CCA/ECA Organized:** Conducted a one week workshop on "Introduction to PLCs" in December 2013.

3.3 CCA/ECA participated:

- Worked as Member of Finance Committee, Convergence 2015.
- Participated in Shadow Engineering & Mirror Engineering programmes.

3.4 Counseling and Mentoring Activity:

Involved in Mentoring of Eight students in Third and Final Year.

3.5 Committees involved in:

Department level: Class Review Committee.

Institute Level: Institute Innovation Cell.

4 Conference / Workshop / Seminar / Guest Lectures:

- **4.1 Conducted:** 02
- **4.2 Attended:** 25

5 Academic Contribution and Research & Consultancy:

| 5.1 | Invited Lectu | res: | | 01. |
|-----|---|------|--------|-----|
| 5.2 | 2 Articles / Chapters published in Books: | | | NIL |
| 5.3 | 3 Books published as single author or as editor: | | | NIL |
| 5.4 | Projects Guid | led: | | |
| | a) UG: | 10 | b) PG: | 02 |
| | Descende I.4 | | | |

- 5.5 Research Interests:
 - Fractional / Intelligent Control.
 - Model based Control design.

5.6 Ph.D students: NA

5.7 Papers presented at National / International Conferences & Seminars:

| S.No | Title of the Paper | Name of the Conference/ Seminar | National/ International | Period |
|------|--|---------------------------------------|----------------------------|------------------|
| 1 | Control Optimization by Fuzzy Supervisory approach of moisture control loop of Sinter Plant | IISN - 2010 | International | February 2010 |
| 2 | Fuzzy Logic based approach to reduction of signal wandering of pH transmitter output by eliminating the effect of induced signals | NSI – 35 | National | January 2011 |
| 3 | LabVIEW based Steam & Condensate Control in Paper Manufacturing Process | NSI - 38 | National | October 2013 |

| 4 | An AGC mechanism for control of two area multi-unit power system | NSI - 39 | National | September 2014 |
|----|---|----------------------|---------------|-------------------|
| 5 | Restoration of X-ray images using LabVIEW | ICRAESIS-2015 | International | December 2015 |
| 6 | Image Compression with DCT using LabVIEW | ICRAESIS-2015 | International | December 2015 |
| 7 | Multi-model Control of Nonlinear Processes - A Fractional Order Filter based Approach | ICECON - 2019 | International | December 2019 |
| 8 | Design of Decentralized fractional order controller for a TITO process | NSI - 42 | National | December 2020 |
| 9 | Design of fractional order PI controller for a PEM fuel cell | CHEMBIOEN 2022 | International | November 2022 |
| 10 | Enhanced Smith predictor based Fractional filter IMC-PI Controller design for FOPTD processes | IEEE ICAECIS 2023 | International | April 2023 |

5.8 Papers published in reviewed Journals:

| S. No | Title of the Paper | Journal Name Vol. No. PP | ISSN No. | Impact Factor | National/ International |
|-------|---|---|--------------|------------------|----------------------------|
| 1 | Design of Multi Model Fractional Controllers for Nonlinear Systems: An Experimental Investigation | Computer Aided Chemical Engineering Volume 46, pp. 1423 – 1428, 2019 | 1570 - 7946. | | International |
| 2 | An Automatic Wave Probe Reference Setting Mechanism in High Speed Towing Tank | International Journal of Research in Engineering & Technology Volume- 02, pp. 515 – 521, 2013 | 2319 - 1163 | 2.375 | International |

5.9. Sponsored research Projects: NA

5.10 Consultancy Projects: NA

6 Awards / Honors received: NA

7 Motto: To perform valued research in the field of Instrumentation and Control.