SELF ASSESSMENT REPORT

Name in Full   :K. NAGABHUSHANAM
Father's Name   :K. Venkatesh
Mother's Name   :K. Balamma
Address   : 3/57, M. Kothapalli (Village),
                      Muntimadugu (Post),
                      Garladinne(Mandal),
Anantapur(District).
                      Andhra Pradesh-515774.

Aadhar Number   : 247873244462   PAN No: AMMPN2728C

Personal e-mail Id : knn.eee.jntuacea@gmail.com

Official e-mail Id   : knneee.eee@jntua.ac.in

Mobile No.   :9959109020

Qualifications   :

S.No.	Qualification	Year of Passing	Board/University	Division
1	**SSC**	2001	State board of secondary education A.P	First Class
2	**Intermediate/Diploma**	2005	State Board of technical Education, A.P.Hyderabad	First Class with Distinction
3	**B. Tech/B.E.**	2008	J.N.T.U Hyderabad	First Class with Distinction
4	**M. Tech/M.E**	2011	J.N.T.U. Anantapur.	First Class

Work Experience :

S.No.	Name of the Organization	Position held	Years of Experience	Nature of work done
1	JNTUA College of Engineering. Anantapur	Adhoc Lecturer	07	Teaching

Publications   :

a) International Journals : 16

1. P. Sunel Kumar, Dr. R. Kiranmayi, K. Nagabhushanam & K. Firdose Kowser Ahamadia 'An Equivalent Transfer Function based PID Controller Design for Waste Water Treatment Plant' Design Engineering, Issue-8, Nov-2021, ISSN: 0011-9342

2. R Hemanth Kumar, Dr. R. Kiranmayi, K. Nagabhushanam & N. Swathi 'Cascaded multilevel Inverter with Output Voltage Regulation Techniques to Reduce Harmonic Distortion and Power Quality Improvement in Solar Panel' Design Engineering, Issue-8, Nov-2021, ISSN: 0011-9342

3. S Sarvani, K. Nagabhushanam, Dr. R. Kiranmayi 'Robust Centralized Controller Design for Time Delayed TITO Processes with RHP Poles' Design Engineering, Issue-8, Oct-2021, ISSN: 0011-9342

4. M. Anil Kumar, Dr. R. Kiranmayi, K. Nagabhushanam & 'Development of a fuzzy Logic Control System to Improve Performance of a PMSG based Wind Energy Conversion System Under Normal and Grid Fault Conditions' PENSEE, Volume-51, Issue-4, 2021, ISSN: 0031-4773S.

5. K Naveen Kumar, Dr. R. Kiranmayi, K. Nagabhushanam & N. Swathi ' PI/PID Controller Design for Multi-Loop Processes Based on Their Minimum Phase Transfer Function Model' PENSEE, Volume-51, 2021, Issue-4, ISSN: 0031-4773S.

6. Venkataramana, K. Nagabhushanam, Dr. R. Kiranmayi & M. Rathaiah 'Maximum Power Point Tracking of PV Array Using Hybrid Controller' PENSEE, Volume-51, Issue-4, ISSN: 0031-4773

7. B.HariSankar Reddy, K..Nagabhushanam, R.Kiranmayi' Intelligent Algorithm Based Maximum Power Point Tracking of Photovoltaic Solar Pump' International Journal of Recent Technology and Engineering (IJRTE)Volume-8 Issue-4, November 2019 ISSN: 2277-3878.

8. R. Sandeep, Dr. R. Kiranmayi and K. Nagabhushanam 'Direct Synthesis Based Controller Design For Interacting Process Using Etf', International Journal of Engineering Development and Research, Volume 5, Issue 4, December 2017, ISSN: 2321-9939.

9. CH.Yogasreeand K.Nagabhushanam 'Mppt Control Methods In Wpgs Based On Anfis Method', Journal of Advanced Research in Dynamical and Control Systems, Vol. 9. Sp– 14 / 2017.

10. M. ArunTejaReddy ,K.Nagabhushanam and Praveen Shankar Jambholkar 'Comparing The Performances Of Controllers For Inverted Pendulum In Lqr, Pid And Fuzzy Techniques', Journal of Advanced Research in Dynamical and Control Systems, Vol. 9. Sp– 16 / 2017.

11. V. Madhavi& K. Nagabhushanam, 'Cascaded Two-Level Inverter-Based Multi-Level Inverter for High power applications by using STSTCOM with Fuzzy Logic Control', International Journal of Scientific Research in Science, Engineering and Technology, Volume. 3/Issue 1/2254 on February-2017.

12. D. Alekhya& K. Nagabhushanam, 'Implementation of Solar PV & Battery Storage System of a three Level NPC Inverter Using Fuzzy Logic Controller', International Journal of Advanced

Research in Electrical Electronics and Instrumentation Engineering, Vol.6, Issue 2, February-2017.

13. G. Jahnavi& K. Nagabhushanam, 'Power Quality Improvement Under Stiff Source Using Multifunctional DSTATCOM', International Journal of Scientific Research in Science, Engineering and Technology, Volume 3/ Issue 1, 2127, January-2017.

14. P. VenkataPrasanthi& K. Nagabhushanam, 'Implementing Droop Controlled DFIG Units In Microgrid', International Journal of Innovative Research and Advanced Studies (IJIRAS), Volume 3 Issue 12, November 2016.

15. N. Viswanath, Dr. R. Kiranmari and K Nagabhushanam 'Multi Scale Control Scheme for Designing of Feedback-Feedforward Control System', International Research Journal of Engineering and Technology (IRJET)" Volume:03 Issue:1 Oct-2016.

16. N C L. Deepthi& K. Nagabhushanam, 'A Transformerless Hybrid Series Active Filter for Enhancing Power Quality of Electric Transportation Systems', International Journal of Research in Advanced Engineering Technologies, Vol. 5, Issue. 4-11, September-2016.

b) Conferences/Workshops :27

1. Attended two week training program on "Fuzzy Sets, Logic and Systems & Applications conducted by NPTEL-AICTE(Jan-Apr 2020).

2. Attended AICTE sponsored online one week short term training program on "Recent Chalenges and Emerging Opportunities in Electric Vehicles" organised by Pragathi Engineering College from 7-12-2020 to 12-12-2020.

3. Attended AICTE sponsered six days online short term training program on "IoT Based Control Strategies for AC/DC Microgrid in Smart City Implementation" organised by Sri Ramakrishna Engineering College from 23-11-2020 to 28-11-2020.

4. Attended four day online faculty development program on "Challenges and Opportunities of Energy and Sensor Applications" organised by JNTACEA Anantapur from 23-09-2020 to 26-09-2020.

5. Participated in five day faculty development program on " IoT and Smart Device Applications in Green Technology and Electric Vehicle" organised by Bapatla Engineering College during 24-08-2020 to 28-08-2020.

6. Attended five day short term course on "Power Electronics Applicatios in Smart Grid and Electric Vehicles" organised by Sri Ramakrishna Engineering College from 3-8-2020 to 7-8-2020.

7. Attended online faculty development program on "Emerging Trends in Electrical Engineering- A Research Perspective" organised by LBS College of Engineering Kasaragod from 27-07-2020 to 31-07-2020.

8. Attended a one week national level faculty development program on "Current Research Trends in Power Systems and Power Electronics" organised by Vignans Nirula Institute of Technology and Science for Women during 20-07-2020 to 25-07-2020.

9. Attended five day faculty development program on "Recent Innovations and Technologies in Electric Vehicles" organised by GATES institute of Technology during 08-06-2020 to 12-06-2020.

10. One Day National Workshop on**"Power Electronics for Power Engineers"**organized by NPTI Faridabad on Oct-1 2019.

11. Attended one week Training Program on **" Advanced Linear Continuous Control Systems: Applications with MATLAB and Simulink"** Conducted by NPTEL-AICTE (July-Sep 2019)

12. Attended One Week Training Program on**"Training Program on "Power Converters Design"** held at JNTUACEA from 25/09/2019 to 30/09/2019.

13. Three Day National Workshop on **"Electro Ceramics: Synthesis Characterization and Device Applications"** organized by UCET Bikaner and JNTUACEA from Sep 11-13 2019.

14. Three Day national Workshop on **"Intelligent Optimization Techniques for Engineering Problems"** organized by NIT Karnataka Surathkal from Aug 19-21 2019

15. Attended One day workshop on **"Industrial applications of power electronics systems"** held at JNTUACEA, on 1st July 2019

16. Attended One week Faculty Development Program on**'Design and development of MOOCS through SWAYAM'** held at JNTUACEA from 18/01/2019 to 23/01/2019.

17. Attended one week Training Program on **" Electrical Power Distribution System Analysis"** Conducted by NPTEL-AICTE (Aug-Sep 2018)

18. Attended One day workshop on **"Awareness on IEEE?IET Electronic Digital Library Sources"** held at JNTUACEA, on 30 November 2018

19. Attended two day workshop on **"Pedagogical Skills For Outcome Based Education"** held at JNTUACEA on November 16-17,2018

20. Attended two day workshop on **"Big Data Applications in Power Systems"** held at JNTUACEA on September 28-29,2018

21. S.S..D Gowtham Kumar, K. Nagabhushanam and Dr. R. Kiranmayi**'Quasi-Sliding-Mode Domain based Discrete-Time Sliding-Mode Control' International Conference on Intelligent Computing and Sustainable Systems(ICICSS 2018)**, Akshaya College of Engineering and technology on 20, 21 September 2018.

22. B. Prasanth, Dr. R. Kiranmayi and K. Nagabhushanam**'Voltage Regulation of a Hybrid Standalone 1-Phase Microgrid using FOPID Based Adaptive Sliding Mode Controller' International Conference on Intelligent Computing and Sustainable Systems(ICICSS 2018),**Akshaya College of Engineering and technology on 20, 21 September 2018.

23. Attended One day workshop on **"R Programming and Applications to E;ectrical Engineering"** held at JNTUACEA on April-21,2018

24. Attended two day workshop on **"Prospective Energy Sorces- Wind and Solar PV Systems"** held at JNTUACEA on March 23-24,2018

25. P. Yogaswani, Dr. R. Kiranmayi and K Nagabhushanam 'Adaptive control design for a PWM-CSC and PMSG based wind energy conversion system', A National Conference on Advances in Power and Energy Systems(NCAPES), Madanapalle Institute of Technology & Science, Madanapalle. During 17th – 18th march 2017.

26. Participated in the One day faculty development programme on "**Big Data Analytics**" held from 20-02-2017 to 22-02-2017 at JNTUA CEA.

27. Attended One day workshop on "**21stCentuary Teaching Strategies**" held on 16th September, 2017 at JNTUA CEA.

28. Attended One day Didactical programme on "**Crafting Powerful Questions**" held on 16th July, 2016 at JNTUA CEA.

29. Attended One day workshop on **"Solar Power Technologies"** held on 20.04.2016 at JNTUA College of Engineering.
30. Attended One day workshop on **"Wind Energy Conversion Systems"** held on 13.04.2016 at JNTUA College of Engineering.
31. Attended One day workshop on "**Awareness on IT/ITES Job Roles & Big Data Analytics**" held on 20th August, 2015 at JNTUA CEA.
32. Participated in the One day faculty development programme on "**AGILE METHODOLOGIES"** held at JNTUA College of engineering Anantapur on 25-Feb-2015.
33. Attended One day complimentary training/orientation on "**MATLAB, Simulink& Related Tool Boxes for Engineering Education**" held on 07th October, 2015 at JNTUC CEA.
34. Attended one day workshop on "**Smart grid"** organized by the department of Electrical Engineering JNTU Ananthapuramu.
35. Attended One day workshop ''**Awareness on Power Systems Simulation Analysis using Mi Power Software"** held on 22.09.2015 at JNTUA College of Engineering.
36. Attended workshop on **Research Perspective on Solar PV Systems** at PSG college of technology Coimbatore held on 26-04-2015 to 29-04-2015.

M.Tech/B.Tech

Subjects Courses taken/labs/Projects guided

Academic Year/Sem	I Semester	II Semester
2011-12	**B.Tech:** - Control Systems - Electrical Engineering Lab (Mech) - Microprocessors and Microcontrollers lab - Electrical Engineering	**B.Tech:** - Generation of Electric Power - Electrical Circuits and Simulation Lab - Electrical Technology **M.Tech:** - Optimal Control Theory
2012-13	**B.Tech:** - Control Systems - Electrical Engineering Lab (Mech) - Microprocessors and Microcontrollers lab	**B.Tech:** - Generation of Electric Power - Electrical Circuits and Simulation Lab - Electrical Technology

	M.Tech: • Digital Control Systems	M.Tech: • Optimal Control Theory
2013-14	**B.Tech:** • Control Systems • Microprocessors and Microcontrollers lab • Electrical Engineering Lab (Mech)	**B.Tech:** • Switch Gear and Protection • Electrical Circuits and Simulation Lab • Electrical Technology lab (ECE)
	M.Tech: • Digital Control Systems	**M.Tech:** • Adaptive Control
2014-15	**B.Tech:** • Control Systems • Electrical Circuits and Simulation Lab • Microprocessors and Microcontrollers lab	**B.Tech:** • Switch Gear and Protection • Electrical technology (ECE) • Electrical Technology lab (ECE)
	M.Tech: • Digital Control Systems	**M.Tech:** • Adaptive Control
2015-16	**B.Tech:** • Control Systems • Microprocessors and Microcontrollers lab • Electrical Circuits and Simulation Lab	**B.Tech:** • Distribution of Electric Power • Microprocessors and Microcontrollers lab
	M.Tech: • Modern Control Theory	**M.Tech:** • Solar Energy Conversion Systems

2016-17	**B.Tech:** • Distribution of Electric Power • Electrical Circuits and Simulation Lab	**B.Tech:** • Control System Engineering • Contro Systems & Simulation Lab
	M.Tech: • Modern Control Theory • Control Systems Lab	**M.Tech:** • Digital Control Systems • Control Systems Simulation Lab
2017-18	**B.Tech:** • Control System Engineering • Electrical Circuits and Simulation Lab	**B.Tech:** • Utilization of Electrical Energy • Contro Systems & Simulation Lab
	M.Tech: • Modern Control Theory • Control Systems Lab	**M.Tech:** • Digital Control Systems • Control Systems Simulation Lab
2018-19	**B.Tech:** • Electric Power Distribution Systems • Electrical Machines –II Lab	**B.Tech:** • Control System Engineering • Microprocessors and Microcontrollers lab
	M.Tech: • Modern Control Theory • Control Systems Lab	**M.Tech:** • Digital Control Systems • Control SystemsSimulation Lab

2019-20	B.Tech:	B.Tech:
	- Electric Power Distribution Systems - Electrical Machines –II Lab - EEE Workshop	- Electrical Machines II Lab - Microprocessors and Microcontrollers lab
	M.Tech:	M.Tech:
	- Modern Control Theory - Control Systems Lab	- Digital Control Systems - Control Systems Simulation Lab
2020-21	B.Tech:	B.Tech:
	- DC Machines & Transformer - Electrical Machines II Lab	- Control Systems Simulation Lab - Microprocessors and Microcontrollers lab
	M.Tech:	M.Tech:
	Modern Control Theory	Digital Control Systems

Achievemts:NPTEL - Certificate published for "Electrical Distribution System Analysis"

Academic Projects Guided/Guiding:M.Tech-7, B.Tech-4

Administrative Works Supported:

- Performed Invigilation duties for different exams (End semester examinations (college & University),CET examinations, APPSC Examinations and UPSC Civil Service Examination).
- Assistance for university BOS
- Assistance for College BOS
- Supported in getting data for NBA application
- Assisting for department administrative works