

PROFILE

- 1. Name** : **Dr. Ch. Chengaiah**
- 2. Designation** : Associate Professor
- 3. Address** : Dept.of EEE
SVU College of Engineering
Tirupati-517502,
Chitoor (Dist) - A.P
- 4. Contact Phone number** : 0877-224990 (o) ,+919440403023
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- 5. Date of Birth** : 10-03-1972



6. Academic Credentials

Degree	University	Year	Field of Specialization
Ph.D	S.V. University	2013	Power Systems Operation and Control
M.E	National Institute of Technology (REC), Tiruchirappalli, (T.N).	2000	Power Systems
B.Tech	S.V. University	1999	E.E.E.
Other Degrees/Diploma	S.B.T.E & T	1994	DEEE

7. Experience

Organization	Designation	Period
Bapatla Engineering College (BEC), Nagargjuna University	Lecturer	June 2001 to July 2003.
N.B.K.R.I.S.T, Vidyanagar	Assistant Professor	July 2003to July 2007
S.V.U.C.E, S.V. University	Associate Professor	3 rd July 2007to till date

8. Academic Excellence

Received **Best Paper Award** for the paper entitled”**Electrical Transmission System: Optimum Power Flow Assessment through Contingency**” in International Conference – CISCON 2011,organized by Manipal Institute of Technology, Manipal University, on Nov-2011 at, Manipal.

9. Foreign Visits:

Presented a paper on “A novel approach for contingency ranking through voltage stability indices to assess the security in a power network“ in International Conference on “Computer Science and Systems Engineering”- (CSSE2014) at **Hong Kong** during September 21-22, 2014.

10. Research areas:

Power system Operation and Control
Power Electronics drives and Control Systems
Renewable Energy Sources

11. Ph.D. Guidance –

S.NO	Name of the Student	Year of Registration	University	Full-Time/ Part-time/External	Status
1	A.Immanuel	2014	S.V.University	Full-Time	In Progress
2	P.Sudheer	2014	S.V.University	Full-Time	In Progress
3	Ravindra Gajji	2014	S.V.University	Part-time	In Progress
4	C.Chinna Gurappa	2014	S.V.University	Part-time	In Progress
5	Y.Murali	2014	J.N.T.U Kakinada	External	In Progress
6	V.VijayaSimha	2014	K.L.University	External	In Progress

12. Research Project Details

S. No	Title of the Project	Sponsored Organization	Status / INR
1	Investigation of Maximum Cell Efficiencies for Dye Sensitized Solar cells	TEQIP Phase-II	Sanctioned / < 1.0 lakh Only
2	Solar PV and GPRS based led display system for Environmental monitoring, street lighting and pumping	UGC (Major Project) New Delhi	Applied/ 28.62 lakh
3	Investigation of Maximum Cell Efficiencies for Dye Sensitized Solar cell in Photovoltaic System	UGC (Minor Project) Regional Office Hyderabad.	Applied/ 4.52 lakh

13. M.Tech dissertations guided – Completed

S.No	Name of the Student	Title	Year of Registration	Degree awarded
1	E.Praveena	Simulation of Ferro resonance in Power System using Describing Function Technique	2004	2006
2	G.Dinesh Babu	Design of Fuzzy Logic Controller for PWM Inverter Fed Three Phase Induction Motor	2004	2006
3	N.Vijaysimha	Evaluation of Fault Analysis in Power System Using Relays Settings	2007	2009
4	K.Mani	Bus Bar and Power Transformer Protection in EHT Substations	2007	2011
5	B.Srikanth	Evaluation of First Swing Sstability of A Large Power System with UPFC for Transient Stability Analysis	2008	2011
6	J.Sunil Kumar	Improvement of Power Flow in Transmission System Using UPFC Device	2008	2011
7	A.Immanuel	Contingency Analysis in Power Network to Locate Facts Devices for Improving Power Flow	2009	2011
8	S. Masood Hussan	Loss Reduction in Electrical Transmission System Using FACTS Devices	2009	2012
9	G.Amith Kumar	Optimal Power Flow Using Pratices Swarm Optimization Technique	2008	2012
10	A.Govardhan	Improvement of Transient Stability Using UPFC with Fuzzy Logic Controller	2006	2013
11	Indla Siva Prasad	Performance of Induction Motor Drive by Indirect Vector Controlled Method Using PI & Fuzzy Controllers	2009	2013
12	P.Jyoshna	Allocation of Transmission Losses in a Deregulated Power System	2011	2014
13	S.K.Zakeer Hussain	Voltage and Frequency Control strategy for a stand Alone Micro Grid System	2011	2014
13	V.Gowri Spandana	Design and Simulation of Helicopter to Control Lateral Dynamics	2012	2014
14	Krishna Jayadev Vedala	Design and Simulation of Helicopter to Control Longitudinal Dynamics	2012	2014
15	K.Sagarika	Optimal Location of FACTS Devices in Electrical Transmission System Using PI Method and Fuzzy Approach.	2010	2015

16	A.Hari	Optimal Power Flow in Electrical Transmission System with UPFC Device using PSO	2012	2015
17	B.Girish Krishna	Differential Evolution based Optimal Power Flow in the Presence of UPFC	2012	2015
18	K.N.Dwaraka Natha	A Noval Method For Reduction of Leakage Currents in Transformerless Grid-Tied Inverters	2012	2015
19	K.Niteesh Kumar	Reducing Generation Cost in Transmission System Using Facts Devices	2012	2015
20	C.Venkatesh	Energy Storage System in Wind Power Distribution	2012	2015

14. Publications: List of Papers published in National/International Journals:

S.No	Publication Details		
	January2008 to December2010	Impact Factor	Citation
1	CH.chengaiyah,G.V.marutheswar,Dr.R.V.S.Satyanarayana, "Control setting of unified power flow controller through load flow calculation, <i>ARPJ Journal of Engineering And Applied Sciences</i> , vol.3, no.6, Dec-2008 .(I) ISSN: 1819-6608		09
2	CH.chengaiyah, G.V.marutheswar, Dr.R.V.S.Satyanarayana, "Voltage SAG compensation using Interline Dynamic voltage restorer", <i>inter national journal on electrical and electronics engineering</i> , vol.01, Nov 2008-jan 2009 .(I)ISSN :0974-2042		
3	N.vijaya Simha, CH.chengaiyah "Evaluation of Fault analysis in transmission lines using relay settings", <i>journal of theoretical and applied information technology</i> , vol.14, no.02, April 2010 .(I) ISSN:1992-8645	1.71	
4	MG Amith kumar, CH. Chengaiyah "optimal power flow using particle Swarm optimization technique" <i>I manager's journal on electrical engineering</i> , vol.4, no.1, july-september 2010 . (N) ISSN: 0973-8835		
5	B.Srikanth, CH, chengaiyah, "Evaluation of first Swing Stability of a large power system using UPFC", <i>I manager's journal on electrical engineering</i> , vol.4, no.1, July-September 2010 .(N) ISSN: 0973-8835		
	January2011 to December2013		
1	CH.chengaiyah, R.V.S.Satyanarayana, "A comparative study of 5-bus and 14 bus system with UPFC:a power flow perspective" <i>The IUp journal of electrical and electronics engineering</i> , vol.Iv, NO.1, Jan 2011 .(I) ISSN : 0974- 1704		

2	CH.chengaiyah, R.V.S.Satyanarayana“Improvement of optimal power flow and system security using Fuzzy based contingency ranking “, <i>IFRSA'S international journal of computing, vol.1, issue 3, July 2011. (I) ISSN : 2231 - 2153</i>		
3	Ch.Chengaiyah and K.Mani,”Distance protection of transmission lines using WAVELET Transform” Journal of Innovation in Electronics and communiationVolume 2,Issue 2,ISSN:2249-9946, january 2012.		
4	CH.chengaiyah, R.V.S.Satyanarayana, G.V.marutheswar,” Location of UPFC in electrical transmission system: Fuzzy contingency Ranking and optimal power flow”, <i>Inter national journal of engineering Research and development, vol.1, issue: 12, July 2012.(I) ISSN : 2278 – 067X</i>		
5	CH.chengaiyah, “The role of economic analysis with FACTS technology: A transmission system Development”, <i>international journal of computer science information and Engg, Technologies, vol.1, issue.3, April 2013.(I) ISSN : 2277 - 4408</i>		
6	Ch.Chengaiyah and I.Siva Prasad,” Performance of on Induction motor drive by in direct vector controlled method using PI and Fuzzy controllers”, <i>IJSE &T-Vol-2, No-3, June, 2013, pp 457-469 ISSN 2278-3687(O).</i>		
7	CH.Chengaiyah, P.Jyoshna ,” Allocation of Transmission Losses in a Deregulated power system “Global Journal of Researchers in Engineering (GJRE) Vol.13 Issue 12 Version 1.0 September 2013		
8	Ch.Chengaiyah and S.K.Zakeer Hussain ,”Voltage and Frequency Control strategy for a stand Alone Micro Grid System”, <i>IJRIET-Vol-1, Issue 2,ISSN:2347-6850,pp31-36, December-2013.</i>		
	January2014 to till date		
1	Ch.Chengaiyah and K. Venkateswaralu, “Comparative Study on DC Motor Speed Control using Various Controllers“, <i>IJAREEIE-Vol-3, Issue 1, ISSN:2320-3765,pp 6918-6925, January-2014.</i>	5.016	
2	P.Sudheer and Ch.Chengaiyah, “Development of an Microcontroller Based Eco –Friendly Automatic Photovoltaic Irrigation System for Agriculture”, <i>International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, Number 6 (2015).</i>		
3	B.Girish Krishna, Ch.Chengaiyah and A.Immanuel, ”Differential Evolution based Optimal Power Flow in the Presence of UPFC”, <i>GJTE-vol -2,Issue 3,e-ISSN:2393-9923, March 2015.</i>	1.456	
4	A.Hari, Ch.Chengaiyah and A.Immanuel, “Optimal Power flow in Electrical Transmission system with FACTS Devices using Particle Swarm Optimization”, <i>GJTE-vol -2,Issue 3,e-ISSN:2393-9923, March 2015.</i>	1.456	
5	A.Immanuel and Ch.Chengaiyah, “Optimal Power Flow with UPFC Using Fuzzy-PSO with Non-Smooth Fuel Cost Function”, <i>IJERA-</i>	1.69	

	vol -5, Issue 5, ISSN:2248-9622, May 2015.		
6	A.Immanuel and Ch.Chengaiyah, "A comprehensive literature survey on recent methods of optimal power flow" IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676, p-ISSN: 2320-3331, Volume 10, Issue 5 Ver. II (Sep – Oct. 2015), PP 01-12	1.419	
7	K.Niteesh Kumar and Ch.Chengaiyah, "Reducing Generation Cost in Transmission System Using Facts Devices" in SSRG International Journal of Electrical and Electronics Engineering (SSRG-IJEEE) ISSN: 2348-8379, Volume 2, Issue 11 Nov. 2015.		

15. Memberships in professional bodies:

S.NO	Membership Details
1.	Life member of SVUTA(Sri Venkateswara University teachers association)
2.	IEEE Membership(Faculty)

16. Administrative/Academic Positions held:

1. Served as **warden** for SVUCE, **MEN'S Hotel** from Oct-2007 to April 2010.
2. Served as **In-Charge Officer Maintenance (Electrical)** SVUCE campus from 1st Aug 2011 to September 2013.
3. Appointed as **Observer** for EAMCET-2011 on 22 May 2011, in Tirupati Regional Centre.
4. Appointed as a **Confidential Team Member** for JNTUH-EAMCET- 2011 from 23rd May to 01st June 2011.
5. Appointed as the **In- charge of Workshop & High Voltage Engineering Lab** by Head of the department from on 14th Oct, 2011 onwards.
6. Served as **Verification Officer** for **Paramedical Counselling** -2012, from 11th to 17th September, 2012
7. Appointed as **Member** for S.V. University-**BOS (PG)/EEE** from March 2012 to 2015. .
8. Appointed as a **Observer and Confidential Team Member** for **Graduate Entrance Test(APGENCO) -12**, Examinations on 12th August 2012 at Tirupati.
9. Appointed as **Procurement Committee** for **TEQIP –Phase –II**, from 5th March 2012.
10. Appointed as **Course Co-ordinator** for M. Tech Program for the year 2012 -13 onwards.
11. Appointed of **Central Observer** at Hyderabad for conducting APGENCO-2013 Exam July 2013.
12. Deputed as one of the **Member in NASSCOM** Programme held on 30th November 2013 at

13. Appointed as **Deputy-Director** for Directorate of Admissions S.V.University, for the period of one Year 19 March 2013 to 2014.
14. Appointed as **Special Observer** for SVU-DDE (PG) Exams of 29th Sep to 01st Oct 2012 at Tekkali.
15. Appointed as **Convener** for **Exam. Committee (UG)** 1st March 2013 onwards.
16. Appointed as a **Member of Board of Studies (BOS) for PG and PASS (UG)** for the period of Three years i.e 29-05-2015 to 20-05-2018.
17. Appointed by Honorable Vice-Chancellor as a **Dual Degree Programme Committee Member** for 6 Year Integrated B. Tech & M. Tech on April 2014.
18. Appointed as a **Department Co-ordinator** for EEE of 6 Year Integrated B. Tech & M. Tech Dual Degree Course for a period of One Year from 17-09-2014 to 16-09-2015.
19. Appointed as a **Additional Chief Superintendent** for 6 Year Dual Degree Course from 28-10-2014 onwards.
20. Appointed as **Regular Ragging Vigilance Committee Member** to prevent incidents of ragging in the SVUCE Campus in Sep 2010 onwards.

17. Papers presented in National/International Conferences:

S.No	List of Paper Details
January2008 to December2010	
1	Presented a paper on “Power Quality Improvement Using Interline Dynamic Voltage Restorer” Proceedings of the National Conference on Power Electronics and Drives, June 28-29, 2008. pp 110-116.
2	Presented a paper on “bus bar and power transformer protection in EHT substation “ on April 2010, organized by Vivekananda College of engineering for women, Tamilnadu
January2011 to December2013	
3	Presented a paper on “.Electrical Transmission System: Optimum Power Flow Assessment through Contingency” An International Conference –CISCON-2011, Nov 3-6 th , 2011, pp 132-137.
4	Presented a paper on “Power Flow Assessment in Transmission Lines Using Simulink Model With UPFC” An IEEE International Conference –ICCEET-2012, Mar- 21- 22 nd , 2012, pp (IEEE Explorer)
	Ch.Chengaiyah ,Presented a paper on “Loss Reduction in Electrical Transmission System

5	by Using FACTS Devices” organized by L.B.R.C.E, Mylavaram. August 2012.
	January 2014 to till date
6.	A.Immanuel & Ch.Chengaiyah , Presented a paper on “A novel approach for contingency ranking through voltage stability indices to assess the security in a power network” , in 2014 International Conference on Computer Science and Systems engineering (CSSE-2014) in Hong Kong on September 21 st & 22 nd ,2014.
7.	P.Sudheer & Ch.Chengaiyah , Presented a paper on “Development of an Microcontroller Based Eco –Friendly Automatic Photovoltaic Irrigation System for Agriculture” , in International Conference on Green Technologies for Power Generation, Communication & Instrumentation (ICGPC’15) at St.Peter’s Institute of Higher Education& Research, Chennai during February 26 th & 27 th ,2015.
8.	A.Immanuel & Ch.Chengaiyah , Presented a paper on “A Hybrid Optimization Technique for Optimal Power Flow in a Power Network with FACTS Device” in National Conference on “Energy Security through New& Renewable Energy Resources” at S.V.U.C.E ,Tirupati Organized by Institution of Engineers, Tirupati during July 27-29, 2015.
9.	P.Sudheer & Ch.Chengaiyah , Presented a paper on “Performance Analysis of Photo Voltaic Systems using Different MPPT Techniques” in National Conference on “Energy Security through New& Renewable Energy Resources” at S.V.U.C.E, Tirupati Organized by Institution of Engineers, Tirupati during July 27-29, 2015.
10.	P.Sudheer & Ch.Chengaiyah , Presented a paper on” Smart Energy Management techniques for Smart green photovoltaic technology for Smart cities in India” in Digital India workshop at NIT Trichy on 18/08/2015.
11.	P.Sudheer & Ch.Chengaiyah , Presented a paper on” Eradicating Proverty in India by sun Using Dye-sensitized Photo-Voltaic Technology” in 6 th International Seminar of Regional Network on Poverty Eradication , organized by Dept. of Economics, S.V.University Tirupati, on 13- 15 th Nov -2015.
12.	A.Immanuel & Ch.Chengaiyah , Presented a paper on” An Adaptive Hybrid Optimization Algorithm for OPF for Non-Smooth Fuel Cost Functions With Facts Device” in 2 nd International conference on emerging trends in electrical, communication and Information Technologies-2015. Organized by SRIT, Anantapuramu on 19 th -21 st December-2015.
13.	C.Venkatesh and Ch.Chengaiyah , “Energy Storage System in Wind Power Distribution” 6 th International Conference on “Regional Network on Poverty Eradication”,13 th to 15 th November 2015.
14.	K.N.Dwarakanath and Ch.Chengaiyah , “A Noval Method For Reduction of Leakage Currents in Transformerless Grid-Tied Inverters” 6 th International Conference on “Regional Network on Poverty Eradication”,13 th to 15 th November 2015.

15.	A.Immanuel & Ch.Chengaiyah , Presented a paper on” An Adaptive Hybrid Optimization Algorithm for Multi-Objective OPF With Facts Device ” in Biennial International conference on Power & Energy Systems:Towards Sustainable Energy-PESTSE-2016. Organized by Amritha school of Engineering,Bengaluru on 21 st -23 rd January-2016.
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18. Workshops/Training Programmes /Seminars Attended:

S.No	Details of Workshops/Training Programmes
January2005 to December2007	
1	Participated a short term course on “ Instructional Design and Delivery ” On Oct 2005, Organized By N.B.K.R Institute Of Science And Technology, Vidyanagar.
2	Participated workshop on “ Emerging trends in VLSI Design ” on Jul 2007, organized by S.V.U.College of Engineering, Tirupathi
3	Participated a training programme on “ Induction Programme for the New Faculty ” on Aug 2007 organized by S.V.U.College of Engineering, Tirupathi.
January2008 to December2010	
1	Participated workshop on “ Modeling, Simulation and Control of Power Converters ” On June 2008, organized by S.V.U.College of Engineering, Tirupati.
2	Attended workshop on “ power quality analysis and improvement techniques ” on March 2009, organized by University College of Engineering, JNTU Kakinada.
3	Attended workshop on “ Embedded systems ” on Oct 2009, organized by S.V.U.College of Engineering, Tirupathi.
January2011 to December2013	
1	Attended workshop on “ Cloud Computing ” on Nov 2011, organized by S.V.university, Tirupathi.
2	Attended workshop on “ Advanced Technologies In Industrial Automation ” on Nov 2011, organized by Manipal university , Manipal.
3	Attended ISTE Workshop on “ Basic Electronics ” on June 2011, organized by IIT Bombay.
4	Participated a training programme on “ Instructional Design and Delivery Systems ” on Nov 2011 organized by S.V.U.College of Engineering, Tirupathi.
5	Attended ISTE Workshop on “ introduction to Research Methodologies ” on June 2012, organized by IIT Bombay.
6	Attended workshop on “ Research Methodologies ” on Sept 2012, organized by S.V.U.College of Engineering, Tirupathi.
7	Attended ISTE Workshop on “ Aakash for Education ” on Nov 2012, organized by IIT Bombay.
8	Attended ISTE Workshop on “ writing effective conference papers ” on Feb 2012, organized by IIT Bombay.
	Participated faculty development programme on” Student Outcomes- Based

9	Engineering Education for Enhanced Employability ” on Jan 2013 organized by S.V.U.College of Engineering, Tirupathi.
10	Participated faculty development programme on” VLSI DESIGN FLOW USING SYNOPSIS EDA TOOLS “on April 2013organized by S.V.U.College of Engineering, Tirupathi.
11	Participated in Two- week ISTE Workshop on “Database Management Systems” by IIT Bombay at SVUCE, Tirupati during 21/05/2013 to 31/05/2013.
12	Participated faculty development programme on” Student Outcomes-Based Engineering Education for Enhanced Employability ” on 5 th Jan 2013 organized by S.V.U.College of Engineering, Tirupati.
January2014 to till date	
1	Attended workshop on “Intellectual property Rights” on 15/04/2014, sponsored by PIC,APCOST Hyderabad organized by SVUCE, Tirupati.
2	Attended workshop on “ Intellectual property Rights ” on 08/07/2014, organized by SVUCE, Tirupati.
3	Attended workshop on “ Initiatives for quality improvement in Engineering Education ” during15/11/2014 to 16/11/2014, organized by SVUCE, Tirupati.
4	Attended workshop on “ Research & Teaching methodologies in Electrical Engineering ” during11/12/2014 to 12/12/2014, organized by IIT,Hyderabad.
5	Attended workshop on “ Wavelet transforms in signal processing ” during14/03/2015 to 15/03/2015, organized by SVUCE, Tirupati.
6	Attended workshop on “ Management capacity Enhancement Programme ” during 30/03/2015 to 04/04/2015, organized by IIMU, Udaipur.
7.	Attended TEQIP-II 1.2 sponsored Faculty Development Programme on “ Intellectual Property Rights (IPR) ” during18/11/2015 to 20/11/2015, organized by SVUCE, S.V.University, Tirupati.

19. Conferences and Workshop’s Organized:

1. Organized an one day National Level workshop on “**SMART GRID TECHNOLOGIES- ISSUES AND CHALLENGES (SGTIC-11)**” on Aug 2011.
2. Organized an two days National Level Workshop on” **ADVANCES IN POWER SYSTEMS**” on July 2013.

20. Extra CO-Curricular Activities:

1. Serving in Institutional Co-curricular activities for students such as field studies/ Educational tours, industry-implant training and placement activity.
2. Students and Staff related socio cultural and sports programs act as **Regular Co-ordinator** Cum **Judge for RAPSODY EVENT -2012**, onwards.

21. Invited for Different National level Events:

1. Act as **Judge** for National level Students conference- **SIGMOID2K-12 on 28th January 2012** organized by SVUCE, Tirupati.

2. Serving as a **Regular Organizing Committee Member** for Departmental National level event i.e **SPARX, from 2012** onwards in Department of EEE,S V U College of Engg, Tirupati.
3. Appointed as a **Jury Member** for **National Level Technical Symposium** on March 2013 organized by S.V.P.C.E.T, puttur.
4. Appointed as **Judge** to **adjudge** of the conference on “**NCCECP** ” on **9th Nov 2013**, organized by Dept of EEEE, ASCET, Gudur.
5. Invited as a Chair for “**TECHNO PRAH 2K14**”,3rd National level Technical Symposium 7th March 2014 conducted by GATE INSTITUTE OF TECHNOLOGY Gutti,Ananthapuramu.
6. Attended as a chief Guest and Key note Address to the symposium and also acted as Judge for “**Technovation-2K14**”a National level technical symposium organized by Priyadarshini College of Engineering, Sullurpet held on 10/03/2014.
7. Invited as a Chair for student Symposium in national level technical fest “**PRAYAG-2014**” held on 19-04-2014 organized by ADISANKARA COLLEGE OF ENGINEERING AND TECHNOLOGY.
8. Invited as a Judge for “**Mohan Mantra a National Level Techno Cultural Fest- 2014**” at Sree Vidhyanikethan Educational Institutions Tirupati on 30th Oct 2014

Declaration: I declare that to the best of my knowledge and belief the particulars in the form are correct.

Date

Signature of the Teacher