

### **Profile**

**G.Rekha**

Asst.Professor

Dept. of Computer Science & Engineering

School of Engineering and Technology

Sri Padmavati Mahila Visva Vidyalayam

Tirupati – 517502

Email: [rekhasesoet@spmvv.ac.in](mailto:rekhasesoet@spmvv.ac.in)

### **Academic Qualifications**

Course(Class)	Board/University	Year of Passing	Specialization/Area
P.hD	SPMVV		IoT Forensics
M.Tech(First class with Distinction)	JNTU Anantapur	2016	C.S.E
B.Tech(First class with Distinction)	JNTU Anantapur	2011	C.S.E
Intermediate	Board of Intermediate Education	2007	M.P.C
SSC	Board of Secondary Education	2005	

**Total Experience:** 10+ years

Organization	Position	From	To	No. of Years
SOE&T,SPMVV,Tirupati	Asst.professor	2019	Till date	8.5
Vitt,Tanapalli, Tirupati	Asst.professor	2011	2013	2

**List of Subjects Taught:** Problem solving and Computer programming, Data Structures, Computer Organization, Advanced Computer Architecture, computer networks,Cloud computing ,Advanced Data Structures and Web technologies.

**Areas of Research Interest:**

- Internet of Things
- Machine Learning
- Cloud Computing

**Number of UG Projects Guided : 12**

**Faculty Research Publications:**

Academic Year	Papers Published in International Journals	Papers Published in National Journals	Total	International Conference Publications	National Conference Publications	Total
2015	1	-	1	-	-	-
2017	3	-	3	-	-	-
2018	-	-	-	2	-	2
2019	1	-	1	-	-	-

2020	1		1			
2021	1			1		1
2022	2		2		1	1
2023	3		3		2	2
2024	3		3	1	1	2

#### List of Publications in International Journals:

1. An International journal published with the title **“A Model For Investigate Cloud computing (IaaS) In Data Center Performance & QoS.”** IJOEET Volume 2, Issue 3 APR 2015.
2. Published an international journal with the title **“Fog computing a survey of integrating cloud and IOT”**, in IJIRCCE, volume-5 issue 3, March 2017, ISSN: 2320-9798.
3. Published an international journal with the title **“A study on Big data with cloud computing and their related issues”**, in IJIRCCE, volume-5 issue 4, April 2017, ISSN: 2320-9798.
4. Published an international journal with the title **“Preventive Measures for Cloud Attacks”** in IJLTET Journal, Volume 9 Issue 2, November 2017, ISSN: 2278-621X.
5. Published an international journal with the title **“Prediction of Stock Market Using Neural Network Strategies”** in JCTN - a SCOPUS Indexed Journal Vol. 16, 2333–2336, June 2019, ISSN: 1546-1955 (Print); EISSN: 1546-1963 (Online).
6. Published an international journal with the title **“Congestion Aware Energy Efficient Routing Protocol for Internet of Things”** in IJASTC - a SCOPUS Indexed Journal Vol. 29, No. 12s, (2020), pp. 2749-2756, July 2020, ISSN: 2005-4238.
7. Published a **Scopus** Indexed IEEE paper entitled **“Raspberry Pi Forensic Investigation and Evidence Preservation using Block chain”**, IEEE PUBLISHER,

December,2021.DOI:[10.1109/FABS52071.2021.9702622](https://doi.org/10.1109/FABS52071.2021.9702622),ISBN:978-1-6654-2005-1

8. Published an International journal with the title **“STUDY ON IOT BASED WOMEN SAFETY DEVICES WITH SCREAMING DETECTION AND VIDEO CAPTURING”** in International Journal of Engineering Applied Sciences and Technology, 2021 Vol. 6, Issue 7, ISSN No. 2455-2143, Pages 257-262 Published Online November 2021 in IJEAST .
9. Published an International journal with the title **“Surveillance System Based on IoT for Smart-Home Automation”** in International Journal of Combined Research & Development (IJCRD) eISSN:2321-225X;pISSN:2321-2241 Volume: 11; Issue: 4; April - 2022.
10. Published an International journal with the title **“A Study on IoT Forensic Investigation in the New Age of Intelligent Crimes”**, in Mathematical Statistician and Engineering Applications-a **SCOPUS** Indexed Journal,ISSN: 2094-0343 / 2326-9865,Vol. 71 No. 4 ,August,2022
11. Published an International journal with the title **“Women's Safety Equipment That Captures Video and Detects Scream”** in European Chemical Bulletin (ECB)-a **SCOPUS** Indexed Journal ,ISSN 2063-5346, Volume:4,Special issue:4,April,2023, doi: 10.31838/ecb/2023.12.si4.179
12. Published an International journal with the title **“IoT Medical Forensic Network Level Intrusion Detection Systems”** in European Chemical Bulletin (ECB)-an **SCOPUS** Indexed Journal, ISSN 2063-5346, Volume:4, Special issue:4, June,2023, doi: 10.31838/ecb/2023.12.si4.180
13. Published an International journal with the title **“PYTHON BASED FIREWALL LOG ANALYZER”** in Journal of Interdisciplinary Cycle Research- an **UGC CARE** journal ,ISSN : 0022-1945,Volume XVI, Issue III, March/2024,pg.no:640-646.
14. Published an International journal with the title **“REVOLUTIONIZING HEALTHCARE DELIVERY WITH BLOCKCHAIN TECHNOLOGY”** in Journal of Interdisciplinary Cycle Research- an **UGC CARE** journal ,ISSN : 0022-1945,Volume XVI, Issue III, March/2024,pg.no:658-665.
15. Published an International journal with the title **A Systematic Review on IoT Privacy, data protection and Security concerns”** in Journal of Interdisciplinary Cycle Research- an **UGC CARE** journal ,ISSN : 0022-1945,Volume XVI, Issue IV, April/2024,pg.no:582-590.

#### List of Publications in International Conferences:

- Presented a paper entitled “**Ensuring QOS through cloud federation**” in the International Conference on Universal Computing, Communications And Data Engineering (CCODE-2018) at SPMVV, Tirupathi , February 7-8-2018.
- Presented a paper entitled “**Predicting Ozone Layer Concentration Using Machine Learning Techniques**” in the International Conference on Universal Computing, Communications And Data Engineering (CCODE-2018) at SPMVV,Tirupathi, February 7-8-2018.
- Presented a paper entitled “**Raspberry Pi Forensic Investigation and Evidence Preservation using Block chain**” in the in International Conference on Forensics, Analytics, Big data & Security(**FABS-2021**), organized by IEEE Student Branch BMSIT&M, hosted by BMS Institute of Technology and Management, Bengaluru, in association with IEEE Bangalore Section and technically co-sponsored by IEEE during 21-22 December, 2021.**DOI: [10.1109/FABS52071.2021.9702622](https://doi.org/10.1109/FABS52071.2021.9702622) , ISBN:978-1-6654-2005-1**
- Presented a paper entitled “**Women's Safety Equipment That Captures Video and Detects Scream** ” in the International Conference on Energy,control,computing and electronics systems (ICECCES2022) at Sri Vidyanikethan Engineering College(Autonomus),A.Rangampet,Tirupati,29<sup>th</sup>-30<sup>th</sup> December-2022.
- Presented a paper entitled “**IoT Medical Forensic Network Level Intrusion Detection Systems** ” in the International Conference on Energy,control,computing and electronics systems (ICECCES2022) at Sri Vidyanikethan Engineering College(Autonomus),A.Rangampet,Tirupati,29<sup>th</sup>-30<sup>th</sup> December-2022.
- Presented a paper entitled “Internet of medical things therat identification using a hybrid deepl learning model ” in IAAA2014 organized by DST-CURIE-AI Center ,SPMVV,Tirupati,Andhra Pradesh, India, during 11 - 12 ,March 2024.

#### List of Publications in National Conferences:

- Presented a paper entitled “**Surveillance System Based on IOT for Smart-Home Automation**” in Third National Conference on Innovative Technologies Post Pandemic NCTOPP-2022 held on 7th and 8th April,2022 organized by the department of information Science and Engineering , New Horizon college of Engineering ,Bengalure.

- Presented a paper entitled “Python based firewall log analyzer ” in 4<sup>th</sup> National virtual Conference on Recent Advances in Technology & Engineering (CRATE-2024) organized by VEMU Institute of Technology (Autonomous), Chittoor, Andhra Pradesh, India, during 26 - 27, April 2024.

S.No	Name of the Event	Organized by	Date	Number of Days
1.	Attended a research oriented workshop on “ <b>New innovations in Cloud Computing for Big data applications</b> ”.	Sree Vidyanikethan Engineering College, Tirupathi	13-8-2016	<b>1 Day</b>
2.	Attended workshop on “ <b>Big Data Analytics &amp; IOT</b> ”	SSIIE-TBI,SPMVV Tirupathi	27-4-2018 to 29-4-2018	<b>3 Days</b>
3.	FDP (101x) : An AICTE approved FDP on “ <b>Foundation program in ICT for Education</b> ”	IIT-Bombay	13-9-2018 To 18-10-2018	<b>15 days</b>
4.	FDP (201x): An AICTE approved FDP on “ <b>Pedagogy for Online Blended Teaching –Learning Process</b> ”	IIT-Bombay	30-10-2018 To 13-12-2018	<b>15 days</b>
5.	FDP-NPTEL: FDP on “ <b>Programming, Data structures and Algorithms using Python</b> ”	NPTEL	Jan-March-2019	<b>1 Week</b>
6.	Attended a Workshop on “ <b>A short term programme on NBA Accreditation</b> ”	SOET,SPMVV and in association with NITTTR,Kolkata	22- 4-2019 to 26- 4-2019	<b>5 days</b>
7.	Attended a Workshop on “ <b>A short term programme on Assessment and Evaluation under Outcome based Education</b> ”.	SOET,SPMVV and in association with NITTTR,Kolkata	10-6-2019 To 16-6-2019	<b>6 days</b>
8.	Attended a ' <b>One day Workshop on Linux</b> '	SOET,SPMVV in association with Teaching Learning Centre, ICT at IIT Bombay, funded by the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT), MHRD, Govt. of India	23-8-2019	<b>1 day</b>

9.	Attended a <b>'One day Workshop on eSim, a First Course in the IoT Series for Teachers'</b>	SOET,SPMVV in association with Teaching Learning Centre, ICT at IIT Bombay, funded by the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT), MHRD, Govt. of India	21-9-2019	<b>1 day</b>
10.	Attended a <b>'One day Workshop on R'</b>	SOET,SPMVV in association with Teaching Learning Centre, ICT at IIT Bombay, funded by the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT), MHRD, Govt. of India	9-11-2019	<b>1 day</b>
11.	Attended a hands on workshop on <b>python and data Science</b>	CURIE-AI ,SPMVV	2-03-2020 To 7-03-2020	<b>6 days</b>
12.	Attended a AICTE approved <b>online-FDP on Internet of Things</b>	NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH, CHANDIGARH.	20-04-2020 To 24-04-2020	<b>5 days</b>
13.	Attended a hands on workshop on <b>'Effective and Efficient Online Teaching in the Age of Corona, A Hands On Workshop'</b>	Teaching Learning Centre (ICT) at IIT Bombay, funded by the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT), MHRD, Govt. of India	16 -5- 2020	<b>3 days</b>
14.	Attended a <b>National level online FDP on Artificial Intelligence</b>	Department of CSE,IT and MCA,CBIT in collaboration with BrainOvision pvt.ltd.,Hyderabad.	22-05-2020 To 26-05-2020	<b>5 days</b>
15	participated in the Two-Day hands-on workshop on <b>Blockchain (Ethereum)Technology</b>	jointly organized by Department of Computer Sciences and IT, Tata Consultancy Services (TCS), Computer Society of India (CSI) and Innovation and Entrepreneurship Development Centre (IEDC), School of arts and sciences, amrita Vishwa Vidyapeetham, Kochi.	22nd and 23rd February 2021.	<b>2 days</b>
16	participated in the Webinar on <b>'5G Local Community Networks (LCNs) using Open RAN, IoT and Blockchain for Sustainable Communities'</b> .	Center for WNA, amrita Vishwa Vidyapeetham, Kochi.	May 21st, 2021	<b>1 day</b>
17	participated in the 2 -week online FDP on <b>IoT</b>	APSSDC	1-06-2020 TO 13-06-2020	<b>13 days</b>



18	participated in the 4-weeks online FDP on <b>AI and Deep Learning</b> .	APSSDC and in association with 360DigitMg	1st July 2020 to 28th July 2020	<b>28 days</b>
19	participated in the Webinar on <b>NAAC assessment and accreditation process and awareness about the NEP-2020</b> .	IQAC,SPMVV in association with NAAC Bangalore	26-08-2020	<b>1 day</b>
20	participated in the <b>technical session of 35<sup>th</sup> Indian Engineering Congress held in virtual mode</b> .	The Institution of engineers India.	18-12-2020	<b>1day</b>
21	participated in the National Webinar on <b>“Effective and efficient writing of research papers for the web of science, Scopus indexed journal and Conference papers using typeset Research studio</b>	organized by Vidyavardhaka College of Engineering, Mysure, Karnataka & Nexus Global EduTech, Bengaluru	29th Dec 2020	<b>1day</b>
22	participated in the <b>“ Webinar On Artificial Intelligence and Machine Learning ”</b>	Dept ,of CSE,SOET,SPMVV	06-03-2021	<b>1day</b>
23	participated in the webinar on <b>“NATIONAL EDUCATION POLICY-2020”</b>	Dept ,of CSE,SOET,SPMVV	20-03-2021	<b>1day</b>
24	participated in the 4-weeks online FDP on <b>“AI master class using Python”</b> .	APSSDC and in association with Pantech Solutions	16-02-2021 to 17-03-2021	<b>30 days</b>
25	Completed a 4 week -Online course- <b>Blockchain Basics</b>	coursera	Apr 6 ,2021	<b>30 days</b>
26	Completed a 4 week -Online course- <b>Smart Contracts</b>	coursera	May 16,2021	<b>30 days</b>
27	participated in the <b>“national level online workshop on mastering in video editing”</b>	DCSA,Mandasaur university	8-05-2021	<b>1day</b>

28	National Faculty Development Program on Augmented Reality in virtual Scenario	DST-AI-CURIE,SPMVV	1st to 6th Sept 2021	7 days
29	Workshop on Augmented reality innovations in AI	DST-AI-CURIE,SPMVV	23rd & 24th, 30th & 31th July 2021 and 6th & 7th August 2021.	
30	APSSDC- Faculty Development Program on Machine learning using Python	APSSDC	16-09-2021 to 04-09-2021	18 DAYS
31	APSSDC- Faculty Development Program on Google Android Application Development using Kotlin	APSSDC	06-09-2021 to 11-09-2021	7 DAYS
32	Organized a National level Webinar on “A Kickstarter to Digital Forensics “	Dept.of .CSE, SoET , SPMVV	16-10-2021	1 day
33	Attended a One Week National level Online Faculty Development Program on <b>Outcome Based Education and Application of Generative AI in Teaching and Research,</b>	organized by the DST-CURIE-AI center of Sri Padmavati Mahila Visvavidyalayam (SPMVV University), Tirupati in association with ipsr solutions limited	<b>18 March 2024 to 23 March 2024</b>	<b>1 week</b>
34	Completed an online course on edX platform <b>DevOps basics for everyone</b>	<b>IBM</b>	<b>April ,2024</b>	<b>8 weeks</b>

#### List of Events (Seminars/Workshops/FDPs/Training Programs/webinars...) attended:

#### Achievements & Awards

- ★ Received **Best Student Award** from S.G.S High school in 2005.
- ★ **Qualified in UGC NET - June Session, 2019 , UGC-NET June Session 2020,UGC-NET December Session 2020 & UGC-NET June Session 2021.**
- ★ Qualified in **APSET 2020.**