Name : Dr. DASARI KALYANI

Designation : Assistant. Professor

Department : IT

Mail.ID : kalyani\_d@vnrvjiet.in

Experience (in years): Teaching: 20 Research:12 Others (If any, Specify): NIL

AICTE Id :1-2078923149 Date of Birth: 11.09.1979

# 1. Educational / Technical qualifications:

| S.No | Level (UG / PG / Ph.D) | Year of passing | Specialization       |
|------|------------------------|-----------------|----------------------|
| 1    | Ph.D                   | 2020            | Information Security |
| 2    | M.Tech                 | 2009            | Computer Science     |
| 3    | B.Tech                 | 2002            | CSE                  |

# 2. Teaching and Learning:

# 2.1. Teaching Interests:

Computer Programming, Operating Systems, Network Security, Data Structures, Information Security Management and Standards, Compiler Design, Information Security, Object Oriented Programming, Web Technologies, Vulnerability Analysis and Hacking

2.2. Novel Teaching & Learning Techniques adopted:

Role Play activity, POGIL, Group activity, WIT&WIL, Mind map, Learning by doing, Demo tools with real time examples.

2.3. Involvement in curriculum updating / Design: Involved in curriculum update for the courses like Principles of Information Security, Information Security Lab, Operating Systems, Operating Systems Lab, Information Security Management and standards, Cryptanalysis, Block chain Technologies

### 3. Co-curricular and Extra-Curricular Activities:

- 3.1. Interests and Hobbies: Helping poor children in need, Reading books
- 3.2. CCA/ECA Organized:
  - Organized Technical seminars for II B.Tech IT-A,B,C students in the AY: 2021-22.
  - Coordinated Industrial visit to Incois, Pragathi Nagar, Hyd for IInd year, IT3 students in Feb 2020.
  - Coordinated Industrial visit to Incois, Pragathi Nagar, Hyd for 3<sup>rd</sup> year students on 8<sup>th</sup> April 2017.
  - Organized Technical seminars for 3<sup>rd</sup> IT, II- Semester students in the AY: 2016-17
  - Coordinated MNC present working projects awareness program at TCS, Hyd for 3<sup>rd</sup> year students on 27<sup>th</sup> September 2016.
  - Coordinated Hyderabad's Best Coder Contest for 3<sup>rd</sup> IT students on 11<sup>th</sup> January 2016 organized by Being Zero.
  - Organized Technical seminars for 3<sup>rd</sup> IT students in the AY: 2014-15
  - Coordinated Industrial visit cum training at Dark Horse, Madhapur, Hyd for 3<sup>rd</sup> year students in February 2014.

# 3.3. CCA/ECA participated:

- Exhibited research project Poster in Convergence Open House -2017.
- Exhibited project Poster in Convergence Open House -2016.



• Exhibited research project Poster in Convergence Open House -2015.

# 3.4. Counseling and Mentoring Activity:

- Guiding and mentoring 12 students of IB.Tech,ITC in academics, projects and other inter/intra competitions and other coding activities since 2022-24.
- Guiding and mentoring 18 studentsofIVthYear,IT3 in academics, projects and other inter/intra competitions and other coding activities since 2020-22.
- Guiding and mentoring 20 students from 2<sup>nd</sup> Year,IT3 Students, in academics, projects and other inter/intra competitions and other coding contest activities since 2019-20.
- Guiding and mentoring 20 studentsfrom 1<sup>st</sup> YearStudents, in academics, projects and other inter/intra competitions and other activities since 2018-19.
- Guiding and mentoring 23 (from 1<sup>st</sup> Year -9, from II<sup>nd</sup> Year-4, from III<sup>rd</sup> Year-4, from IV<sup>th</sup>Year-4, from M.Tech (CNIS)-2) Students, in academics, projects and other inter/intra competitions and activities during 2013-18.

### 3.5. Committees involved in

### Department level:

- Incharge member of CET since Jan 2022- tilldate.
- Incharge for Second year, IT3 class attendance and session marks 2019-20.
- Incharge for Timetables since Jan 2020- 2021.
- Incharge for First year, IT3 class attendance and session marks 2018-19.
- Incharge for IVth year class attendance and session marks 2017-18.
- Incharge for Departmental LCD Projectors maintenance during 2013-17.
- 3<sup>rd</sup> Year, I and II semester Class coordinator & Attendance and Internal Marks Incharge in the academic year 2016-17.
- 2<sup>rd</sup> Year, I and II semester Class coordinator & Attendance and Internal Marks Incharge in the academic year 2015-16.
- Second Year, I and II semester Class coordinator & Attendance and Internal Marks Incharge in the academic year 2014-15.
- First Year, I and II semester Class coordinator & Attendance and Internal Marks Incharge in the academic year 2013-14.
- PG coordinator in BIET from 2011 to 2013.

### Institute Level:

- Incharge for UG-NBA criterion-4 from 2021-22.
- Incharge for PG-NBA criterion-5 from 2019-20
- Incharge for Faculty profile, NBA criterion-4(2016), NAAC-Cr4 in 2018.
- Member of Knowledge Asset since 2018- 2020 and Vignana Deepikalu for 2017-18.
- Member in PG School during 2015-17.
- Departmental results updating to Audit Cell from 2013 to till date.
- Faculty selection technical committee member for BIET in 2012.
- NBA coordinator in BIET from 2012-13.
- NBA coordinator in MRCET in 2010-2012.

### 4. Conference / Workshop / Seminar / Guest Lectures:

### 4.1 Conducted:

• One Guest Lecture titled "Realtime IT & Agile Methodology" by S L Sneha, SSE, Siemens, Hyd on 23<sup>rd</sup> Oct, 2021 for II-I B.Tech, IT students.

- One Guest Lecture titled "Information Security and Risk Management on Role" by Mr. Sriramadasu. Gopi Krishna, ISM, TCS, Kolkata for I-II, M. Tech (CNIS) students on 27<sup>th</sup> March, 2017.
- One Guest Lecture titled "Programming in Oracle with PL/SQL" by Mr. S. Rajesh Kumar, FreeLance Trainer for consultancies-Wipro, L&Ton 17<sup>th</sup> January, 2017 for III-II, B. Tech-IT students.
- One seminar titled "Cyber Security and Ethical Hacking" by Mr. Abdul Hameed Khan, Zoom Technologies for III-I,B.Tech-IT students on 3<sup>rd</sup> September, 2016.
- One Guest Lecture by Mr. B. Rajendra Prasad Babu, GITAM University on "Cloud Computing-Security Challenges" for I-II, M. Tech (CNIS) students on 9<sup>th</sup> June, 2016.
- Organized One National workshop on "Recent Trends in Mobile Computing and Cloud Security" from 4<sup>th</sup> May to 6<sup>th</sup> May 2016.
- One Guest Lecture by Prameela B, Senior Administrator, DST Worldwide services India, Pvt. Ltd on "System Protection and security" to III-II, IT students on 8-11-2014.
- One Guest Lecture by Dr. M Sekhar, Research Scientist, Google, Pvt. Ltd., on "NP-Hard and Np-Complete" on 20-03-2014 to II-II, CSE & IT students.

#### 4.2 Attended:

- Two days Bootcamp on "Blockchain Technology" on 11<sup>th</sup> and 12<sup>th</sup> Feb,2022 organized by BPF.
- AICTE Sponsored One-week Online STTP titled "Blockchain and its Applications" organized by HRDC-JNTUH from 4<sup>th</sup>Oct 2021 to 12<sup>th</sup> Oct,2021.
- Ten days Online workshop on "Cyber Security and Forensics" organized by JNTUH from 30<sup>th</sup> March, 2021 to 9<sup>th</sup> April, 2021.
- Workshop on "How to write Proposals" in Feb 2020 organized by Department of H&S, VNRVJIET
- Workshop on "CYBER SECURITY AND INTERNET OF THINGS" from 15th to 17th of June 2017 organized by Department of CSE, JNTUHCEH, Hyderabad.
- Two day summit "National cyber safety & security standards summit'17(VI edition)" hosted by Birla Institute of Technology and Science, Hyderabad campus from 17<sup>th</sup> to 18<sup>th</sup> February 2017.
- Two day training program on "IOT and Embedded Systems" by INTEL during 06th -07th Feb 2017.
- FDP on "Foundations of Cryptography" organized by NITW sponsored by E&ICT&ISEA, DeitY, GOI from 19<sup>th</sup> Dec to 30<sup>th</sup> Dec '2016.
- FDP on "Sensor Networks and Internet of Things" organized by VNRVJIET&NITW sponsored by E&ICT, DeitY, GOI from 27<sup>th</sup> Nov to 2<sup>nd</sup> Dec'2016.
- Two day Workshop "Applications of Computer Networks and security" by Department of CSE under TEQIP-II during Nov 9-10, 2015 at VNRVJIET
- Three day "International Conference on Data Sciences" by Department of CSE &IT under TEQIP-II during Feb 26-28, 2014 at VNRVJIET.
- One day "Faculty Development Program on "Digital Forensics & Information security" on 15th Nov 2013 at VNRVJIET.

- One day "orientation Program engaging New comers(Faculty)"-OPEN(F) under TEQIP-II on 6th July 2013 at VNRVJIET.
- Two-week SDP on "Cloud Computing & Security" under TEQIP-II from 3rd to 15th June 2013 at VNRVJIET.
- Three-day workshop on "Map code" from 27th to 29th May 2013 at VNRVJIET.
- Certification course on "Flex" Fxlearn@campus by Adobe systems India Pvt.Ltd" at MRCET.
- Two- day workshop on "Research Aspects in information Security" held on 6th and 7th December 2012 at JNTUHCE, Hyderabad conducted under TEQIP-II.
- Training Program for the teachers of Engineering colleges sponsored by APSCHE in association with JNTUH organized by BIET during the period 9th to 14th July 2012 on "Linux Programming".
- One day seminar at JNTUHCE, Hyderabad on "Trends in Research and Development-An Academic Perspective" on 22nd August 2009.
- Three-day workshop on "Embedded Systems" during 28th to 30th August 2008.
- Certification course on "OOAD using the UML with fundamentals of Rational Rose" during 12th to 13th July 2006 by IBM at MRCET

# 5 Academic Contribution and Research & Consultancy:

#### 5.1. Invited Lectures:

• Invited as a guest speaker at CMEC to talk on "Data structures and Applications" during Sept 2021.

# 5.2. Articles/Chapters published in Books:

- Kalyani D., Vijay Kumar P. (2021) Text-Based Handwritten Recognition through an Image Using Recurrent Neural Network. In: Fong S., Dey N., Joshi A. Lecture Notes in Networks and Systems, vol 154. Springer, Singapore. <a href="https://doi.org/10.1007/978-981-15-8354-4\_47">https://doi.org/10.1007/978-981-15-8354-4\_47</a>
- 2. DasariKalyani, Information Security polocies and Procedures guidance for agencies. Chapter 4, In: Impact of digital Transformation on security Policies and standards, IGI Global, 2020, pp. 47-62, DOI: 10.4018/978-1-7998-2367-4.ch004.
- 3. Revathi A., Kalyani D., Ramasubbareddy S., Govinda K. (2020) Critical Review on Course Recommendation System with Various Similarities. In:
- 4. Bhateja V., Satapathy S., Satori H. (eds). Advanced in intelligent systems and computing book series, AISC Volume 1076, April 2020.
- 5. Kalyani, D., Ramasubbareddy, S., Govinda, K., & Kumar, V. (2020). Location-Based Proactive Handoff Mechanism in Mobile Ad Hoc Network. Algorithms for intelligent systems book series (AIS), 2020 (pp. 85-94). Springer, Singapore.
- 6. D. Kalyani and R. Sridevi, "Private communication based on Hierarchical Identity based cryptography" in Springer book series, Advances in Intelligent Systems and Computing AISC, ISSN:2194-5357.

### 5.3. Books published as single author or as editor:

1. Contributed to a book titled "Network Security" as a co-author published by Lulu publishers in April 2019.

### 5.4. Projects Guided:

### a) UG:

- B.Tech Minor & Major project titled "Efficient Energy Trading and Charging System : Electric Vehicles with Blockchain" in May2023. This work proposes the purpose of charging electric vehicles, A blockchain-based P2P energy trading and payment system has been proposed. By using smart contracts, customers who have excess power may sell to the charging stations. Electronic wallets should be used by electric vehicle owners to cover their charging costs.
- B.Tech Major project titled "Blockchain Based Cryptocurrency (VNR Pay)" is in June 2021. This project is a private cryptographic peer-to-peer version of electronic cash transactions that would allow online payment to be sent directly from one user to other without going through a 3rd party financial institutions like central banks, online UPI transactions agents like Phone Pay, GPayetc., also called as cryptocurrency and named as VNR Pay.
- ThreeB.Techinternship projects titled "Post Connection Attacks", "Web Application" and "Cyber Security" in Sept, 2021.
- Two B.Techinternship projects titled "X.509 Certificate with improved transparency using HyperledgerFabric Blockchain" in Sept, 2020.
- B.TechMajor project titled "Hand writing recognition using sensor networks" in April 2019. This has the ability of the computer to receive and interpret intelligible handwritten input from sources such as paper documents, photographs, touch-screens and other devices.
- B.TechMajor project titled "Heliostat" in April 2017. This portal gives access to the government and hospitals to monitor and alert public about heat waves data collected from sensors with IMD in summer.
- B.TechMini project titled "Hill cipher implementation using ECC" in Nov 2016.
- B.TechMini project titled "Mentoring App" in November 2016.
- B.TechMajor Project titled "automatic Test Packet Generation" in April 2016.
- B.TechProject titled "Development of Distributed sales management" as a major project in April, 2015.
- B.TechProject titled "Implementing RSA signature" as a minor project in Nov, 2015.
- B.TechProject titled "Implementation of Securing cloud data using RSA" as a minor project in Dec 2014.
- B.TechProject titled "Search Engine, Optimized Routing algorithm" as a major project in April, 2014.
- B.TechProject titled "Privacy Preserving public auditing for secure cloud storage" as a major project in April, 2014.

### b) PG:

- M.TechMinor project titled "Remote user authentication protocol for multi server architecture based on ECC" in July 2017.
- M.TechMajor project titled "Short and secure CLS pattern using simple crypto analysis hash techniques" as a major project in 2016.
- M.TechMajor project titled "Sequential and parallel multi signature schemes" as a major project in 2015.
- 5.5. Research Interests: Information Security, Cryptography and Network security

#### 5.6. Ph.D students:

a) Enrolled: NAb) Submitted: NAc) Awarded: NA

5.7. Papers published in reviewed Journals:

| S.No | Title of the Paper   | Journal<br>Name<br>Vol.No.<br>PP | ISBN/ISSN<br>No.      | Impact<br>Factor/<br>Citation<br>Index | National/<br>International |
|------|--|----------------------------------|-----------------------|--|----------------------------|
| 1    | Study of cryptology and its forms in today's secure world  | IJARCS,<br>8-9                   | 0976-5697             | 5.8                                    | International              |
| 2    | Survey on identity based and hierarchical identity based encryption schemes                          | IJCA-<br>134-14                  | 0975-8887             | 2.3                                    | International              |
| 3    | Identity Based Encryption<br>and Signature Schemes with<br>Elliptic Curve Cryptosystem<br>Challenges | IJASCT-<br>6-1                   | 2229-3515             | 4.5                                    | International              |
| 4    | Cryptanalysis of Identity Based Certificate less Secure Short Signature Scheme in the Standard Model | IJSETR-<br>5-11                  | 2319-8885             | 6.6                                    | International              |
| 5    | Secure and short CLS pattern using simple crypto analysis hash technique                             | IJCSIS-<br>14-11                 | 1947-5500             | 0.5                                    | International              |
| 6    | Secure Encryption Scheme with Key Exchange for TwoServer Architecture                                | IJERCSE-<br>4-11                 | ISSN(O):<br>2394-2320 | 4.89                                   | International              |

5.8. Papers presented at National / International Conferences:

| S.No | Title of the Paper   | Names of the<br>Conference/<br>Seminars | National/<br>International | Period            |
|------|--|---|----------------------------|-------------------|
| 1    | Secure Encryption scheme with key exchange for two server Architecture             | ICASETM-17                              | National                   | 2-3 Feb'17        |
| 2    | Robust distributed Key issuing<br>Protocol for Identity based<br>cryptography      | ICACCI-16                               | International              | 21-24<br>Sep'16   |
| 3    | A Review on identity based cryptography with its extensions                        | NCCIA-12                                | National                   | 9-10 Feb'12       |
| 4    | Private Communication using Hierarchical Identity Based Cryptography               | IEMIS-18                                | International              | 23-25<br>Feb,2018 |
| 5    | Text-Based Handwritten Recognition Through an Image Using Recurrent Neural Network | ICT4SD-2020                             | International              | July 2020         |
| 6    | Efficient Energy Trading and Charging System : Electric Vehicles with Blockchain   | InC42023                                | International              | Feb 2023          |

5.9. Sponsored research Projects:

| S.N | Title                           | Agency | Period  | Grant     | Ongoing / |
|-----|---------------------------------|--------|---------|-----------|-----------|
|     |                                 |        |         | amount    | Completed |
| 1   | "Identity based short signature | UGC    | 2 years | 3.2 Lakhs | Completed |

| scheme without random oracles" |                            |                  |            |            |           |  |  |
|--------------------------------|----------------------------|------------------|------------|------------|-----------|--|--|
| 5.10 (                         | 5.10 Consultancy Projects: |                  |            |            |           |  |  |
| S.No                           | Title                      | Agency           | Period     | Sanctioned | Ongoing / |  |  |
|                                |                            |                  |            | Amount     | Completed |  |  |
| 1                              | Smart Robot                | Robotics project | Jan 2023   | Internship | Ongoing   |  |  |
| 2                              | Public KIOSK               | TCS              | Jan,2018   | Internship | Completed |  |  |
| 3                              | Heliostat                  | Altronics        | April 2017 | Internship | Completed |  |  |

# 6. Awards / Honors received:

- Received best academic performance certificate in 2008.
- Received best academic performance certificate in 2016.
- **7. Motto:** Hard work results the Best.