

**KNOWLEDGE ASSET**

Name : **B. MATHURABAI**  
 Designation : Associate Professor  
 Department : Information Technology  
 Mail.Id : mathurabai\_b@vnrvjiet.in  
 Experience (in years) : Teaching: 19yrs 3 months  
 Research : 11yrs others (If any, Specify):6 months industrial experience



**1. Educational / Technical qualifications:**

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1	B.Tech	2003	CSIT
2	M.Tech	2007	CSE
3	Ph.D	2011(pursuing )	CSE

Designations	DOJ
1. Academic Assistant	10.10.2003
2. Assistant Professor	27.12.2003
3. Senior Assistant Professor	23.06.2008
4. Associate Professor	16.05.2012

**2. Teaching and Learning:**

2.1 Teaching Interests:

- a) Computer Programming/Programming through C
- b) Data Structures
- c) C Programming and Data Structures
- d) Computer Networks
- e) Wireless Networks & Mobile Computing
- f) Software Engineering
- g) Software Testing Methodologies
- h) Mathematical Foundations of Computer Science
- i) Object Oriented Programming through JAVA
- j) Information Technology & Numerical Methods.
- k) Cloud Computing
- l) Discrete Structures and Graph Theory
- m) Data Structures and Algorithms
- n) Design and Analysis of Algorithms
- o) Mobile Computing
- p) Machine Learning
- q) Computational Thinking using Python

2.2 Novel Teaching & Learning Techniques adopted:

- PPTs, Videos, Quiz, Brainstorming, Problem Solving, POGIL

2.3 Involvement in curriculum updating / Design:

- Designing of new syllabus for subjects like Wireless Networks and Mobile Computing, Software Testing Methodologies and worked as Dept. Course Coordinator since 2011

onwards and also as Dept. Academic Committee Member doing designing of B.Tech-IT and M.Tech-CNIS Syllabus, Dept. Development Committee Member.

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

#### 3.1. Interests and Hobbies:

- To promote work efficiency, good attitude towards work in organizations.

#### 3.2. CCA/ECA Organized:

- B.Tech and M.Tech Project Expo as part of SHOW & TELL

#### 3.3. CCA/ECA participated:

- DRDO Sponsored Project Poster Presentation during Open House 2015, 2016 and 2017.

#### 3.4. Counseling and Mentoring Activity:

- Every year IT 4 students and 2 M.Tech(CNIS) students for mentoring and counseling

#### 3.5. Committees involved in:

Department level: Result Analysis Incharge from 2008 to 2013, Monthly Report Incharge from 2008 to 2016, Course Coordinator Incharge from 2011 to 2016.

Institute Level: VIGNANA VARTHA Associate Editor, Placement Coordinator, Career Vision Approach Coordinator, Women's Welfare Association Member, Alumni Coordinator, Canteen Committee Member

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

#### 4.1 Conducted:

- Conducted 15days remedial classes for the late joined lateral entry students for the coverage of the syllabus in 2004 after the academic class work. Venue: CSE/IT Seminar Hall, VNR.
- Conducted a 2 day workshop on "Modeling Techniques in Virtual Reality & Multimedia-Action Script" for Engineering College Teaching Faculty and B.Tech Students, during September 5<sup>th</sup> and 6<sup>th</sup> 2008. Venue: CSE/IT Seminar Hall, VNR VJIET.
- Conducted a 2 day training programme on "Information Technology-Hardware" for both CSE and IT teaching staff, during September 22<sup>nd</sup> & 23<sup>rd</sup> 2008. Venue: IT-Workshop Laboratory, VNR VJIET.
- Conducted a 3 day Micro Teaching programme for both CSE and IT teaching staff, during April 20<sup>th</sup> to April 22<sup>nd</sup> 2009.
- Coordinated for two AICTE sponsored FDPs conducted by IT Dept.
- Coordinated for International Conference on Data Sciences conducted by CSE & IT Dept.
- Conducted a guest lecture on "Java Servlets, JSPs & ASPs" for M.Tech CNIS and M.Tech(ES)(33 in no.) on 14.5.14 given by Mr. T. Mahesh, Corporate Trainer & Mobile Application Developer at Geosys Enterprise Solutions Pvt. Limited, Hyderabad under TEQIP.
- Conducted a guest lecture on "MANETs (Mobile Adhoc Networks)", IV-IT I Sem(61 in no.) on 7.11.2014 given by Dr. Humaira Nishat, Professor, ECE Dept., CVR College of Engineering, Hyd. Under TEQIP-II.
- Conducted a guest lecture on "Wireless Networks Simulation using NS2" by Pothalaiah Sake, JNTUH on 16.7.15 for I M.Tech(CNIS)-II Semstdents under TEQIP-II.
- Coordinated IBM Webinar by PadmanabanSukhumaran, Director Services Engineering & Automation on "Take Wings A Look at the Future" on 28.1.16 in coordination with Aloysious R Marian, L1 Portfolio Manager-Telstra PM team, IBM Accredited Advisory Project Manager, EBIS SO Delivery, Delivery Center India.
- Coordinated Webinar by Kumaresan N, Head-ASU Test Automation CoE& Labs, TCS

on “Fly high with an exciting career in Assurance” on 3<sup>rd</sup> Feb 2016 in coordination with DasakaSrindhi.

- Coordinated IBM Webinar by Sanjiv Jain, Associate Director-HR, IBM India & South Asia on “Leveraging Collective Intelligence-IBM Way” on 23.2.16 in coordination with Aloysious R Marian, L1 Portfolio Manager-Telstra PM team, IBM Accredited Advisory Project Manager, EBIS SO Delivery, Delivery Center India.
- Conducted a Guest Lecture on “Applications of Data Structures in Corporate Industries” under TEQIP-II for I B.Tech-IT II Sem students on 11.2.16 and the speaker was Manohar R. Kesireddy, CEO & Founder of mRoads, Hyderabad.
- Conducted a Guest Lecture on “Routing Algorithms in MANETs” under TEQIP-II for I M.Tech(CNIS) –II Sem students on 22.4.16 and the speaker was Aruna Rao SL, Associate Professor & HOD-IT, BVRIT, Hyderabad.
- Conducted a National Workshop under TEQIP-II on “Recent Trends in Mobile Computing and Cloud Security” from 4.5.16 to 6.5.16 for faculty of IT, CSE and M.Tech(CNIS) Students.
- Conducted a Guest Lecture on Networking under TEQIP-II for I M.Tech I Year CNIS-I Sem on 23.01.2017 by Murali Darisi, Innominds Software Pvt. Ltd Hyderabad.
- Conducted a Guest Lecture on Importance of Algorithms in Software Industry under TEQIP-II for II B.Tech-II Sem students on 25.3.17 by Ch.Aravind.
- Worked as Registration Committee Member for the 7<sup>th</sup> IEEE International Advance Computing Conference 2017 on 5<sup>th</sup>-7<sup>th</sup> Jan 2017.
- Conducted a CVA session by Alumni C.Ashwitha Reddy on 21.9.17 for I B.Tech IT1-I Sem students as part of Inspirational Talk.
- Conducted a Certification Course on “Core and Advanced Python” for III-IT students from 11<sup>th</sup> Dec 2017 to 23<sup>rd</sup> Dec 2017 by Technosoft, An IT Services Company.
- Conducted an event called VNR EXPRO (Exploring excited projects @ VNR) for Silver Oaks Students (6<sup>th</sup> class to 10<sup>th</sup> class) from 3.4.2018 to 4.4.2018
- Conducted a 4 days workshop on Python Programming from 2<sup>nd</sup> June to 5<sup>th</sup> June 2020 by the Dept. of IT in collaboration with ACM student chapter.

#### 4.2 Attended:

- Short Term intensive course on “Embedded Systems” by Guru Nanak College of Engineering from 29 Nov-3 Dec 2004.
- Short Term course on “Embedded Systems” by ECE, Sreenidhi Institute of Science & Technology from 6<sup>th</sup> June to 11<sup>th</sup> June 2005.
- Attended a course on “Object-Oriented Analysis & Design using the UML with Fundamentals of Rational Rose “by IBM from 06<sup>th</sup>-07<sup>th</sup> Dec’05.
- Attended a 3 day FACULTY DEVELOPMENT PROGRAM on “Network and Management System” organized by M/s. Wipro Technologies at Vasavi College of Engg. From 22-24<sup>th</sup> Feb 2006.
- Short Term course on “Web Technologies” at VNRVJIET on 23.3.07 & 24.3.07.
- Three Day Workshop on “OOAD with UML using IBM Rational Rose” at VNRVJIET during 27-29, August 2008.
- Two Day Workshop on “Software Economics” by CSE Dept in VNRVJIET.
- Two Day Workshop on “High Impact Teaching Skills called as Mission 10x “ by Wipro at JNTUH on 17<sup>th</sup>-18<sup>th</sup> Nov 2008.
- Two Day Workshop on “Recent Trends in Teaching –Mission 10x “by Wipro at MLR Inst. Of Technology & Science.
- Participated in “The Great Mind Challenge-2008” National Software Development Program by IBM on 16<sup>th</sup> April 2009.

- Three Day Workshop on “Advanced UNIX Operating Systems” by IT Dept in VNRVJIET.
- One Day Workshop on “Hidden Markov Model” by ISTE Chapter in VNRVJIET.
- Three Day Workshop on “Network Programming” by CSE Dept& CSI Student Chapter at VNRVJIET from 16<sup>th</sup>-18<sup>th</sup> Sep 2010.
- One Day Workshop on “Women in Research-the FOSS Paradigm” at UGC-Academic Staff College, JNTUH on 26<sup>th</sup> Nov 2010.
- Short Term Course on “Recent Trends in Advanced Technologies” by CSE Dept. at VNRVJIET from 20<sup>th</sup> -22<sup>nd</sup> Jan 2011.
- AICTE Sponsored Faculty Development Programme on “Recent Trends in Networking & Security” by IT Dept. at VNRVJIET from 13.6.11 to 26.6.11.
- Faculty Development Programme on “Enabling interactive Learning Mechanisms using Advanced Network & Mobile Solutions” on 23-June-2011 at VNRVJIET, Hyd conducted by Tata Consultancy Services Limited.
- Expert Lecture on “Introduction to Computational Intelligence & Applications in Bioinformatics” organized by IEEE-Hyderabad Section Dept. of Computer & Information Sciences, UOH on 06.08.11.
- Seminar on “Calculation of individual income tax” by B.Prathyusha at VNRVJIET on 07.10.11.
- Three Day Workshop on “OOAD using UML” by CSE Dept. in VNRVJIET from 9<sup>th</sup> May to 11<sup>th</sup> May 2012 .
- AICTE Sponsored Staff Development Program on “Advanced Data Mining Techniques” by CSE Dept. in VNRVJIET from 14<sup>th</sup> May to 26<sup>th</sup> May 2012.
- One Day Training program on “IBM Software Quality & Testing” by CSE Dept., Osmania University in collaboration with IBM and M/S SP Software (P) Limited at OU Campus Auditorium on 15.9.2012.
- One Day Seminar on “Advances in Soft Computing” at VNRVJIET on 14.12.2012 conducted by CSE Dept., VNRVJIET under TEQIP-II
- One Day Workshop on “Research Methods in Educational Technology " under national mission on educational through ICT (MHRD, Govt. Of India) conducted on 2.2.2013 and 9.2.2013 by IIT Bombay at IIIT, Hyderabad.
- Two Day Workshop on “Security and Privacy in Cloud Computing” under TEQIP 2013 conducted by IT Dept., at VNRVJIET from 25.3.13 to 26.3.13
- Three Day Workshop on “Art of Teaching” under TEQIP-II conducted by ME Dept., at VJIM from 2.5.13 to 4.5.13
- Faculty Development Programme on “Digital Forensics & Information security” held on 15<sup>th</sup> Nov 2013 at VNRVJIET organized by Tata Consultancy Services.
- Participated in the International Conference on Data Sciences (InDAS 2014) held during 26<sup>th</sup> -28<sup>th</sup> Feb 2014 at VNRVJIET organized by Dept. of CSE & IT under TEQIP-II.
- Participated and presented a paper on "A Survey on Application of Mobile Technology in Health Care (mHealth)" on the occasion of All India Seminar on "Latest Trends and Technologies in Computer Science & Engineering held on 25<sup>th</sup> & 26<sup>th</sup> March 2014 at The Institution of Engineers (India),Andhra Pradesh State Centre organized by The Institution of Engineers(India), Andhra Pradesh State Centre, Visvesvaraya BHavan,Khairatabad,Hyderabad-500 004.
- Two Day National Workshop on Simulation of Wireless Networks using NS2(SWN) from 4<sup>th</sup> July to 5<sup>th</sup> July 2014 organized by Dept. of ECE,JNTUH College of Engineering and conducted at Dept. of ECE, JNTUH CEH, Kukatpally.

- Three Day Workshop on “Engineering the Education Scenario towards a Learner Centric Environment” organized by Dept. of Humanities & Sciences, VNRVJIET, Hyderabad under TEQIP-II during 4<sup>th</sup>-6<sup>th</sup> August 2014 at VNRVJIET.
- Three Day Workshop on “Emerging Trends in Social Media and Mobile Applications” organized by CSE Dept., VNRVJIET, Hyd under TEQIP-II during 13<sup>th</sup>-15<sup>th</sup> Nov 2014 at VNRVJIET.
- AICTE Sponsored Faculty Development Program on “Trends in Wireless Communication Technology and Evolution of Simulation Tools” from 11<sup>th</sup> May 2015 to 23<sup>rd</sup> May 2015 organized by ECE Dept., VNRVJIET.
- Attended a Webinar on “Data Sciences” by Ms. Nagamallika, WIPRO Consultant organized by Placement & CSE Dept. on 8.7.15 at Career Vision Center, VNRVJIET.
- Attended a workshop under TEQIP-II on “Embedded Hardware, Operating Systems and IoT Applications” organized by ECE Dept. from 20.1.16 to 23.1.16 at VNRVJIET.
- Attended a workshop under TEQIP-II on “Applications of Computer Networks & Security” organized by IT Dept. from 9<sup>th</sup>-10<sup>th</sup> Nov 2015
- Attended a workshop under TEQIP-II on “Web Application Development using Python” organized by IT Dept. from 28.3.16 to 30.3.16.
- Participated in the 1st International Conference on Computational Intelligence & Informatics (ICCII-2016) held at JNTUH organized by Dept. of CSE during May 28th - 30th 2016.
- Attended a workshop under TEQIP-II at JNTUH organized by Dept. of ECE on “Simulation of Wireless Networks using NS2 (SWN 2016)” from 26th-28th May 2016.
- Attended a National Level One week Faculty Development Programme on “Sensor Networks and Internet of Things” from 27<sup>th</sup> Nov-2<sup>nd</sup> Dec 2016 conducted by Dept. of CSE in association with NITW under the scheme of Electronics & ICT Academy.
- Attended a 2<sup>nd</sup> International Conference on Information and Communication Technology for Intelligent Systems ICTIS 2017 held on March 25-26, 2017 at Ahmedabad and presented a paper titled “ Clustering and Classification of Effective Diabetes Diagnosis: Computational Intelligence Techniques using PCA with KNN”.
- Attended 21<sup>st</sup> Annual Meeting of DRDO at New Delhi on 22.5.17 as part of sanctioned LSRB-DRDO project.
- Attended the Alumni Entrepreneur Meet 2017 on 23.9.17 by Alumni Cell in coordination with EDC cell.
- Attended 1-day workshop on Cloud Computing by CSE & IT Dept., GNITS on 26<sup>th</sup> Oct 2017.
- Attended a Certification Course on “Core and Advanced Python” for III-IT students from 11<sup>th</sup> Dec 2017 to 23<sup>rd</sup> Dec 2017 by Technosoft, An IT Services Company.
- Attended one week workshop on “Big Data Analytics” by CSE Dept., VNRVJIET from 25.6.18 to 30.6.18.
- Attended NPTEL Online Certification, Funded by Ministry of HRD, Govt. of India for course Problem Solving Through Programming in C by Prof. Anupam Basu, IIT Kharagpur and got Elite Certificate and Topper among Top 1% with a consolidate score of 87% during Jul-Oct 2018 (12 week course) bearing Roll No: NPTEL 18CS31S21381127 and with Online Assignments score 23.63/25 and Proctored Exam 63/75 out of 4083 participants.
- Attended FDP program on “Hadoop Framework and Big Data Tools” by CSE Dept., VNRVJIET in association with Capgemini & CSI during 27.9.18 to 29.9.18.
- Attended a Pre-conference workshop on Recent Trends in Computational Intelligence & Security organized by Dept. of CSE ,JNTUHCEH on 27<sup>th</sup> Dec 2019 held during International Conference on Computational Intelligence and Informatics (ICCII-2018).

- Attended and presented a paper titled Diagnosis of Diabetes using Clinical Decision Support System in International Conference on Computational Intelligence and Informatics (ICCII-2018) during 28<sup>th</sup>-29<sup>th</sup> Dec 2018 organized by Dept. of CSE, JNTUH College of Engineering Hyderabad.
- Attended and presented a paper titled Diabetes Complications Prediction Using Different Multi-label Classification Algorithms-MEKA in International Conference on Intelligent Computing and Communication Technologies (ICICCT-2019) during 9<sup>th</sup>-11<sup>th</sup> Jan 2019 organized by Dept. of CSE & IT, BVRIT Hyderabad College of Engineering for Women.
- Attended a short-term course “Introduction to Programming: A Pedagogical Approach” conducted by E & ICT Academy, Indian Institute of Technology, Kanpur under Ministry of Electronics & Information Technology, Govt. of India from 17<sup>th</sup> June 2019 to 21<sup>st</sup> June 2019. (Ref. No.:EICT/NITP/57/CSE/209/2019).
- Attended a online course (AICTE approved FDP course) on “Data Analytics with Python” conducted by Swayam- NPTEL, IIT Roorkee
- Attended a one week FDP on “LaTeX” conducted by IIT-Bombay & SGU from 27<sup>th</sup> April to 2<sup>nd</sup> May 2020
- Attended a FDP on “Industry Expectations from Data Mining and Blockchain Professionals” conducted by Dept. of CSE with CSI, VNRVJIET from May 25<sup>th</sup> to 29<sup>th</sup> 2020
- Attended a online hands-on session on “LaTeX-A Scientific Documenting Tool” on May 21<sup>st</sup> 2020 by IEEE VNR SB VNRVJIET
- Attended a webinar on “Opportunities for Engineers @DRDO” on May 25<sup>th</sup> 2020 conducted by Chennai Institute of Technology
- Attended a hands-on workshop on “Effective Utilization of Digital Platforms for Teaching and Learning Process” on 1<sup>st</sup> May- 3<sup>rd</sup> May 2020 by VNRVJIET
- Participated in 5-day FDP on “Cyber Security” organized by Dept. of ECE and IT in collaboration with IETE, ISTE and ACM student chapters from 2.6.2020 to 6.6.2020 VNR VJIET
- Participated in a two-week FDP on “Advance Data Structures” organized by Dept. of CSE in collaboration with CSI VNR SC from 1<sup>st</sup> June- 11<sup>th</sup> June 2020 VNR VJIET
- Participated in the Quiz on “Faculty Awareness on NBA” conducted by the Dept. of EEE, Mallareddy College of Engineering and Technology and secured 95% score on 14.6.2020
- Participated in E-Quiz on “Python and Data Structures with certification program” organized by Dept. of CSE, NBKR Institute of Science and Technology in association with CSI on 27<sup>th</sup> May 2020 with 75%
- Participated in a webinar on “Recent Trends in Data Science” conducted by Dept. of CSE & IT, MLR Institute of Technology on 13.6.2020
- Participated in an online Quiz on “Basics of Programming in Python” conducted by Dept. of CSE, LORDS Institute of Engineering and Technology on 14.6.2020 with 100% score
- Participated in a FDP on “Machine Learning with Python” conducted by Dept. of CSE & IT, BVRT from 15<sup>th</sup> June t 20<sup>th</sup> June 2020
- Participated in 5-day online FDP on “Artificial Intelligence and Machine Learning for Engineering Applications” conducted during 8<sup>th</sup> June- 12<sup>th</sup> June 2020 by the Dept. of CSE, IT & ECE VNRVJIET
- Participated a joint global online summer course “Data Science for All” from 27.7.2020 to 7.8.2020 by online global FDP under EICT, NITW

- Participated FIVE Day online FDP on “Data Sciences” from Sep 07th -11th , 2020 organized by School of Management Studies, UOH approved by AICTE ATAL
- Participated online FDP on “Data Science & It’s Applications in STEM” from 7th Sep to 21st Sep 2020 organized by AU College of Engineering (A), AU, University College of Engineering Vizianagaram, JNTUK in collaboration with APSICHE, STEM
- Participated one week AICTE ATAL FDP on “Data Science”, by Dept. of CSE, SoS (E&T), Guru Ghasidas Vishwavidyalaya, Bilaspur, CG, India from 12.10.2020 to 16.10.2020.
- Participated in AICTE & MRSPTU approved one week STTP on “Wireless Sensor Networks” from 18-23 Jan 2021, organized by Dept. of CSE, GZZSCCET MRSPTU, Bathinda.
- Participated in AICTE-ISTE Sponsored a SIX Day Induction/ Refresher Programme on “Machine Learning for All” organized by Dept. of ECE and Center for Research and Innovation, KSRRM College of Engg., Kadapa, AP, from 1.2.2021 to 6.2.2021.
- Participated the E&ICT and Dept. of CSE, NITW one week online FDP on “Optimization Techniques for Engineering Applications” from 7.4.2021 to 15.4.2021
- Participated in ATAL FDP on Cultivating Excellence in IMplementation of Computational Science for Scientific and Technological Innovations organized by NITR from 14.6.2021 to 18.6.2021.
- Participated in AICTE ATAL Sponsored one week online FDP on “Natural Language Processing (NLP)” organized by Dept. of ECE from 8.11.2021 to 12.11.2021, G.Pulla Reddy Engineering College (Autonomous), Kurnool, AP, India.
- Participated in one week online FDP on “Optimization Techniques: Theory, Practice, and Emerging Applications” by EICT and Dept. of CSE, NITW during 24.1.2022 to 1.2.2022.
- Participated in one week online FDP on Data Analytical Tools & Python Frameworks organized by Dept. of CSE, VNRVJIET in collaboration with CSI from 11.5.2022 to 17.5.2022.
- Participated in FDP on Computational Statistics organized by EICT, NITW in association with JSS Science and Technology University, Sri JAYACHAMARAJENDRA COLLEGE of ENGINEERING, Mysuru, sponsored by MeitY, GOI from 1.8.2022 to 10.8.2022
- Participated in a 30 hours online course on “Machine Learning for Data Science using Python” organized by Department of CSE, NIT Warangal in association with Center for Continuing Education during 16-30 August, 2022.
- Participated in a 10 days online FDP on “Optimization Techniques: Theory, Practice, and Emerging Applications” during 22-31 August 2022 organized by Department of CSE, NITW in association with E&ICT
- Attended a 30 hours course on “Machine Learning for Data Science using Python” from 14-29 Nov 2022 organized by Dept. of CSE in association with Center for Continuing Education (CCE), NITW
- Attended National level one week online FDP on “Mathematics for Data Science and Machine Learning” organized by Department of CSE, Gopalan College of Engineering & Management, Bangalore from 2-7 Jan 2023.
- Attended a NAAC sponsored workshop on “Enriching Quality of Academics & Research in Relevance to NEP-2020” conducted by IQAC and PAAC of VNRVJIET from 24-25 Feb 2023.
- Attended a 5-Day workshop on “Statistical Analysis using Python” organized by Department of H&S and CSE(CYS,DS) and AI&DS, VNRVJIET from 6-11 March 2023

- Attended FDP on “Recent Trends in Cognitive Science & Its Applications” organized by Department of CSE, VNRVJIET in collaboration with Vikram University, Oriental University & IPS Academy, Indore from 13-18 March 2023
- Attended 5-Day FDP on “Devops & Cloud Technology” organized by Department of CSE, AIML & DS, SREYAS Institute of Engineering and Technology from 13-17 March 2023
- Attended online Capacity Building Programme for Faculty Members on “Data Science” from 19th May to 1st June 2023 sponsored by Pandit Dwarka Prasad Mishra, Indian Institute of Information Technology, Design and Manufacturing, Jabalpur.
- Attended online FDP on “Randomized and Approximation algorithms” organized by E&ICT Academy, NITW sponsored by Ministry of Electronics and Information Technology (MeitY), GOI from 20-30 May 2023.
- Attended online Capacity Building Programme for Faculty Members on “Blockchain Technology and Application” from 15-24 June 2023 sponsored by Pandit Dwarka Prasad Mishra, Indian Institute of Information Technology, Design and Manufacturing, Jabalpur.
- Attended one-week workshop on “Research Oriented Technical Writing (ROTW-2023) from 4-8 July 2023 organized by Department of Electrical Engineering, National Institute of Technology, Jamshedpur.

## **5. Academic Contribution and Research & Consultancy:**

### **5.1. Invited Lectures:**

- Given an invited talk on "A Survey on Application of Mobile Technology in Health Care (mHealth)" on the occasion of All India Seminar on "Latest Trends and Technologies in Computer Science & Engineering held on 25th & 26th March 2014 at The Institution of Engineers (India), Andhra Pradesh State Centre organized by The Institution of Engineers(India), Andhra Pradesh State Centre, Visvesvaraya Bhavan, Khairatabad, Hyderabad-500 004.
- Trained I-IT students from 18<sup>th</sup> May 2018 to 25<sup>th</sup> May 2018 as a facilitator for Certification Course on “Python Programming”
- Trained Silver Oaks Students (6<sup>th</sup> class to 10<sup>th</sup> class) from 3.4.2018 to 4.4.2018 in an event called VNR EXPRO(Exploring excited projects @ VNR) by teaching them how to create simple web pages using HTML Tags.
- Delivered an Expert talk on “Basics of Python and Data Structures in Python Programming” as part of AICTE-MRSPTU Sponsored one week online STTP on “Python Programming” from 15.3.2021 to 20.3.2021 organized by Dept. of CSE, Giani Zail Singh Campus College of Engineering & Technology, Maharaja Ranjit Singh Punjab Technical University (MRSPTU), Bathinda, Punjab, India
- Delivered an expert session as part of three day online workshop on “Machine Learning Applications” from 2.9.2021 to 4.9.2021 organized by Dept. of IT in collaboration with ACM Student Chapter, VNR VJIET.
- Delivered a guest lecture on 7.6.2022 as part of Faculty Orientation Programme on “Teaching Learning Process on Data Structures through C” from 30.5.2022 to 8.6.2022 organized by Dept. of CSE in collaboration with CSI, VNRVJIET
- Delivered training sessions on C & DS for all I M.Tech all Branches, VNR VJIET from 16.6.2022 to 30.6.2022 organized by CDC, VNRVJIET.
- Delivered training sessions on C & DS for I B.Tech AE,CE,ME students in Nov 2022 organized by CDC, VNRVJIET.



- Delivered training sessions on C & DS for all I M.Tech all Branches, VNRVJIET from 23.1.23 to 10.2.23 organized by CDC, VNRVJIET.
- Delivered python training sessions for B.Tech II AE students from 13.3.2023 to 1.6.2023 organized by CDC, VNRVJIET

5.2. Articles/Chapters published in Books:

5.3. Books published as single author or as editor:

5.4. Projects Guided:

a) UG: 35

b) PG: 5

5.5. Research Interests:

Data Mining, Mobile Computing, Machine Learning, Natural Language Processing (NLP)

5.6. Ph.D students:

a) Enrolled: Nil

b) Submitted: Nil

c) Awarded: Nil

5.7. Papers published in reviewed Journals:

S.No	Title of the Paper	Journal Name Vol.No. PP	ISBN/ISSN No.	Impact Factor/ Citation Index	National/ Internationa l
1	Malware Analysis using System call Monitoring	Journal of Electrical, Electronics and Computer Systems	ISSN-Online,2347-2820 Vol 3	1.75	Internationa l
2	Predictive Modelling of Tree Rule Firewall for the Efficient Packet Filtering	International Journal of Computer Science and Information Security (IJCSIS), Vol. 14, No. 10, Oct 2016	ISSN 1947-5500		Internations l
3	Mathura (MBI)- A Novel Imputation measure for imputation of missing values in medical datasets	Recent Advances in Computer Science and Communications	2020 ISSN: 2666-2558		Internationa l
4	An Attention Based Neural Architecture for Arrhythmia Detection and Classification from ECG Signals	CMC- Computers, Materials & Continua	Vol. 69, No.2, 2425-2443. DOI: 10.32604/cm.c.2021.016534		Internationa l
5	Object Detection using SSD- MobileNet	International Research Journal of Engineering	e-ISSN: 2395-0056, p-ISSN: 2395-0072,		Internationa l

		and Technology (IRJET)	Vol. 9, Issue 6. June 2022		
6	Modified K-Nearest Neighbour Using Proposed Similarity Fuzzy Measure for Missing Data Imputation on Medical Datasets (MKNNMBI)	International Journal of Fuzzy System Applications (IJFSA)	Vol. 11(3), Article 78, 1-15. EISSN: 2156-1761, DOI: 10.4018/IJFSA.306278 July 2022		International
7	A similarity measure to find Nearest Neighbours for heart disease to improve prediction accuracy	International Journal of Advanced Research in COmputer and Communication Engineering (IJARCCE)	Vol. 11, Issue 7, July 2022 ISSN(O) 2278-1021, ISSN(P) 2319-5840, DOI: 10.17148/IJARCCE.2022.11706	Impact Factor 7.39	International

#### 5.8. Papers presented at National / International Journals:

S.No	Title of the Paper	Names of the Conference/ Seminars	National/ International	Period
1	Exploring Research Issues in Mining Medical Datasets, Article No. 65 (ISBN: 978-1-4503-3418-1, doi> <a href="https://doi.org/10.1145/2832987.2833078">10.1145/2832987.2833078</a> )	ACM International Conference ICEMIS 2015	International	Sep 24-26 2015
2	An Approach To Find Missing Values in Medical Datasets ,Article No. 70 (ISBN: 978-1-4503-3418-1 doi> <a href="https://doi.org/10.1145/2832987.2833083">10.1145/2832987.2833083</a> )	ACM International Conference ICEMIS 2015	International	Sep 24-26 2015
3	Clustering and Classification of Effective Diabetes Diagnosis: Computational Intelligence Techniques using PCA with KNN	Information and Communication Technology for Intelligent Systems (ICTIS 2017), Vol 1, Smart Innovation, Systems and Technologies 83, DOI 10.1007/978-3-319-63673-3_52	International	25.3.17 to 26.3.17
4	Diagnosis of Diabetes using Clinical Decision Support System	International Conference on	International	28 <sup>th</sup> -29 <sup>th</sup>

		Computational Intelligence and Informatics (ICCII-2018)		Dec 2018
5	Diabetes Complications Prediction Using Different Multi-label Classification Algorithms-MEKA	International Conference on Intelligent Computing and Communication Technologies (ICICCT-2019)	International	9 <sup>th</sup> - 11 <sup>th</sup> Jan 2019
6	Unsupervised learning method for better imputation of missing values	12th International Advanced Computing Conference (IACC-2022)	International	16th-17th Dec 2022
7	An Optimized Spectral Clustering Algorithm for better imputation of Medical Datasets (OISSC)	7th International Conference on ICT for Intelligent Systems (ICTIS-2023)	International	27-28 April 2023

#### 5.9. Sponsored research Projects:

S.No	Title	Agency	Period	Grant amount	Ongoing / Completed
1	Development of a tool for the management of Diabetes Mellitus	DRDO LSRB-284/SH & DD/2014 dated on 8.1.15	2 yrs	9,03,500	Completed
2	Prerana Scheme	AICTE	2 years	7,93,333	Completed

#### 5.10 Consultancy Projects: Nil

### 6. Awards / Honors received:

1. Received Gold Medal from VNRVJIET as Best Outgoing Girl Student in 2003
2. Received a grant of worth 9.03lakhs from DRDO-LSRB in the year 2015
3. Life Member for ISTE (LM-62934) and CSI (I1504257)
4. Received Elite Certificate and Topper among Top 1% with a consolidate score of 87% in NPTEL Online Certification Course on Problem Solving through Programming in C with Roll No.: NPTEL 18CS31S21381127 conducted by IIT Kharagpur, funded by Ministry of HRD, Govt. of India.
5. Received a grant of worth Rs.7,93,333 from AICTE under Prerana scheme on 22.4.2020 for 2 years

### 7. Motto:

Work is Worship & Efficiency is Divine