




DHANEKULA INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE Affiliated to JNTU Kakinada)

Ganguru, Vijayawada - 521 131. Phone: 0866 - 2583842 / 43.

Email: dietoffice2009@rediffmail.com; URL: www.diet.ac.in

FACULTY PRPOFILE																		
Name of the Faculty	Dr. PRABHAKAR KANDUKURI																	
Designation	Professor																	
Email & Phone No	prabhakarcs@diet.ac.in deanresearch@diet.ac.in 9705795005																	
Date of Joining	16 September 2020																	
Nature of Association	Regular																	
Department	Computer Science & Engineering																	
Educational Background	<ul style="list-style-type: none"> ➤ Ph.D. (Doctor of philosophy) in Computer Science & Engineering with Specialization in Software Engineering, JNT University Anantapur, Anathapuramu. ➤ M. Tech. (Master of Technology) in Computer Science & Engineering, JNTUACE(A), Anantapur, JNT University Anantapur, Anathapuramu. ➤ B. Tech. (Bachelor of Technology) in Computer Science & Engineering in RVR & JC College of Engg. (Autonomous), Guntur, A.N. University Guntur. ➤ D.CM.E. (Diploma) in Computer Engineering in Pratap Polytechnic, Chirala, State Board of Technical Education and Training, Hyderabad. 																	
Research Areas	Software Engineering, Machine Learning.																	
Experience	14																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">S. No</th> <th style="width: 35%;">Institute</th> <th style="width: 30%;">Designation</th> <th style="width: 25%;">Period</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td>DhaneKula Institute of Engineering & Technology</td> <td>Professor and R&D Coordinator</td> <td>16 Sep. 2020 to Till</td> </tr> <tr> <td style="text-align: center;">2.</td> <td>Vardhaman College of Engineering(A)</td> <td>Associate Professor</td> <td>14 Oct. 2014 to 09 Sept. 2020</td> </tr> <tr> <td style="text-align: center;">3.</td> <td>SSN Engineering College</td> <td>Assistant Professor</td> <td>12 July 2007 to 16 Oct. 2014</td> </tr> </tbody> </table>			S. No	Institute	Designation	Period	1.	DhaneKula Institute of Engineering & Technology	Professor and R&D Coordinator	16 Sep. 2020 to Till	2.	Vardhaman College of Engineering(A)	Associate Professor	14 Oct. 2014 to 09 Sept. 2020	3.	SSN Engineering College	Assistant Professor	12 July 2007 to 16 Oct. 2014
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List of Publications (International Journals/Conferences):

1. **Prabhakar Kandukuri et al, "Multivariate Economic Analysis of the Government Policies and COVID'19 on Financial Sector"** International Journal of Computer Applications in Technology, **Inderscience Enterprises** Ltd., (Accepted).
2. **Prabhakar Kandukuri et al, "Mobile Agent Based Key Update In Wireless Sensor Networks"**, International Journal of Grid and Distributed Computing, Vol. 14, No. 1, (2020), pp. 497-512, ISSN: 2005-4262 IJGDC, Copyright ©2021SERSC.
<http://sersc.org/journals/index.php/IJGDC/article/view/35885/19839> **Web of Science (ESC)**
3. **Prabhakar Kandukuri et al, "Machine Learning Algorithm Based Prediction of Heart Stroke Chances Based on Data Provided"**, International Journal of Advanced Research in Engineering and Technology (IJARET). Volume 11, Issue 12, December 2020, pp.2006-2019, Article ID: IJARET_11_12_190, ISSN Print: 0976-6480 and ISSN Online: 0976-6499, DOI: 10.34218/IJARET.11.12.2020.190
http://www.iaeme.com/MasterAdmin/Journal_uploads/IJARET/VOLUME_11_ISSUE_12/IJARET_11_12_190.pdf . **(Scopus)**.
4. **Prabhakar Kandukuri et al, "Detection of Position Falsification Attack in VANETs using ACO"**, International Journal of Control and Automation, Vol 12 No 6 (2019): Vol 12 No 6 (2019). **(Scopus)**.
5. **Prabhakar Kandukuri et al, "Dynamic Data Analysis and Decision Making on Twitter Data"**, International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Volume-9 Issue-1, November, 2019. **(Scopus)**.
6. **Prabhakar Kandukuri et al, "Project Based Learning through MOOCS"**, IEEE 6th International Conference on MOOCs, Innovation and Technology in Education – MITE2018, Nov 29-30, Hyderabad, India, 2018. **IEEE (Scopus)**.
7. **Prabhakar Kandukuri, "Software Modernization through Model Transformations"**, International Conference on Artificial Intelligence & Cognitive Computing, AICC-18., 02-03, Feb 2018, Hyderabad, India, 2018. **Springer (Scopus)**.
8. **Prabhakar K. A. Ananda Rao, K. Venugopala Rao, "A Model-Driven Approach to Regression Testing of Reusable Software"**, International Conference on Artificial Intelligence & Cognitive Computing, AICC-18., 02-03, PP: 62, Feb 2018, Hyderabad, India, 2018.**Springer (Scopus)**.
9. **Prabhakar Kandukuri, A. Ananda Rao, K. Venugopala Rao "An Approach to Regression Testing based on Grounded Theory Specifications"**, International Journal of Computer Sciences and Engineering, Vol.-6, Issue-6, pp:352-361, June 2018 E-ISSN: 2347-2693.
10. **Prabhakar Kandukuri, A. Ananda Rao, K. Venugopala Rao "A Model-Driven Approach to Regression Testing for Software Modernization"**, International Journal of Scientific Research in Computer Science Applications and Management Studies, Volume 7, Issue 3, pp: May 2018.



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11. **Prabhakar K.**, A. Ananda Rao, K. Venugopala Rao, “Cost-Effective Model-Based Regression Testing”, “IAENG– World Congress on Engineering”, Vol. I-WCE 2017, pp241-246, July 5-7, 2017, London, U.K., 2017. **IAENG-Engg. Letters (Scopus)**.
12. **K. Prabhakar** et al, “Rate Based Pacing with Various TCP Variants“, International Journal of Trend in Research and Development, Jun 2, 2016.
13. **K. Prabhakar** et al, “Dynamic Component Safety Analysis: A Regression-Based Code Coverage Approach”, International Journal of Electronics Communication and Computer Engineering Volume 4, Issue (6) NCRTCST-2013, ISSN 2249–071X.
14. **K. Prabhakar** et al, “Detecting Unsafe Component Loadings using Static Techniques”, International Journal of Information and Computation Technology. ISSN 0974-2239 Volume 3, Number 10 (2013), pp. 1009-1014.
15. **K. Prabhakar** et al, “MARTE Genetic Algorithm for Uncovering Scenarios Leading to Data Races in Concurrent Systems”, International Journal of Information and Computation Technology. ISSN 0974-2239 Volume 3, Number 3 (2013), pp. 201-210.
16. **K. Prabhakar** et al, “Non-Linear Data Perturbation Method for Privacy-Preserving Data Mining” International Journal of Management, Information Technology and Engineering, ISSN(P): Applied For; ISSN(E):2348-0513; Impact Factor(JCC):0.4512.
17. **K. Prabhakar** et al, “A Queuing Theory Implementation of Time Slicing Based Multiprocessor Scheduling” Paper Published in International Conference on Emerging Technology Trends in Cloud Computing (ICETT-2011), Kerala-India-MAR 2011.

Books Published:

1. **Artificial Intelligence & Cognitive Computing**, 2018. **Springer-Book Chapter**: “Software Modernization through Model Transformations”.
2. **Regression Testing: A Model Driven Approach**, Lambert Academic Publishing –ISBN 978-620-0-65650-6

Patents:

1. **Dr. PRABHAKAR KANDUKURI**, “IOT SENSORS BASED MULTI-FUNCTIONAL AND INTELLIGENT WALK GUIDING STICK FOR VISUAL DISABLED PERSON“, Field Of Invention: BIO-MEDICAL ENGINEERING, Application No: 201941051603, Publication Number: 51/2019, Publication Date: 20/12/2019.
2. **Dr. PRABHAKAR KANDUKURI**, “GENERIC, MAPPABLE AND AUTOMATICALLY CONFIGURABLE SINIFICATION SOFTWARE”, Application No.202041010555 A, INDIA, Date of filing of Application: 12/03/2020, Publication Date: 20/03/2020
3. **Dr. PRABHAKAR KANDUKURI**, Secure Human Authentication System with Three Level Multi Model Biometric Fusion Using Artificial Neural Networks, Application Number: 202141016077, Field Of Invention : Computer Science, Date of Filing: 05/04/2021, Publication Date (U/S 11A): 16/04/2021



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Academic Achievements:

- **3rd Rank** in **Ph.D.** Entrance Exam. (out of 250 Aprox.).
- **293 Score** in GATE (out of 7,77,134 Aprox.).
- **209th Rank** in **PGCET** (out of 15,000 Aprox.).
- **244th Rank** in **ECET** (out of 25,000 Aprox.).
- **Conducted 3** Faculty Development Programs.

Academic Projects Carried out: 03

- **Ph.D.** : Model Based Techniques for Cost Effective Regression Testing.
- **M.Tech.** : Time Slicing Based Multiprocessor Scheduling.
- **B.Tech.** : Tele Job Information System.
- **D.CM.E.** : College Information System.

Projects Guided:

- **Post-Graduation (P.G)** : **12(+2 are in progress)**
 - **M.C.A.** : **05** and **M. Tech.** : **07+2**
- **Under-Graduation (U.G): 40 (+2 are in progress)**
 - **B.Tech.** : **40+2** (20 mini projects and 20 major projects completed).

Key Skills:

- Software Engineering (CASE-Tools): Visual Paradigm, Rational Rose, Selenium, Unified Functional Testing (UFT/QTP) Tool.
- Programming Language Skills : C, C++, JAVA and Python.
- Scripting Skills : JS, CSS, PHP, HTML, and XML.
- Database Skills : MySQL Server.

Courses Taught at Post Graduate Level (M. Tech.):

- Software Testing and Quality Assurance.
- Software Requirements and Estimation.
- Scripting Languages/Web Technologies.
- Advanced Data Structures and Algorithms.
- Knowledge Representation and Reasoning.

Courses Taught at Graduate Level (B. Tech.):

- C-Language and Data Structures.
- Advanced Data Structures.
- Advanced Data Structures and Algorithms.
- Principles of Programming Languages.
- Object Oriented Programming Through JAVA.
- Web-Technologies.
- Software Architecture
- Computer Organization.
- Advanced Computer Architecture.
- Database Management Systems.
- Operating Systems.
- Information Security.
- Electronic Commerce.
- Software Testing Methodologies.



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Roles and Responsibilities:

- **Director EISC** (Entrepreneurship, Innovation and Start-Ups Centre), at DhaneKula Institute of Engineering and Technology, From **December 2020 to Till date.**
- **Coordinator Research & Development** at DhaneKula Institute of Engineering and Technology, From **September 2020 to Till date.**
- **Handling academic classes, Labs, Projects and Student councilor** for 20 students at Vardhaman College of Engineering, Shamshabad, Hyderabad.
- **Coordinator for NAAC-Criteria-7** at Vardhaman College of Engineering, Shamshabad, Hyderabad.
- **Worked for NBA at Tire-I and Tire-II Levels** at Vardhaman College of Engineering, Shamshabad, Hyderabad.
- **In-charge for College Website** at Vardhaman College of Engineering, Shamshabad, Hyderabad.
- **Coordinator for B. Tech. Projects** at Vardhaman College of Engineering, Shamshabad, Hyderabad.
- **In-charge for III Year B. Tech. CSE**, at Vardhaman College of Engineering, Shamshabad, Hyderabad.
- **Coordinator for M. Tech. (Master of Technology -Software Engineering)** a P.G. Course at Vardhaman College of Engineering during 2013-2016, Shamshabad, Hyderabad.
- **Coordinator of ELAN'10**, A State level Symposium conducted by SSN Engineering College-2010, Ongole.
- **Coordinator for B. Tech. Projects** in SSN Engg. College and Guided Ten Projects.
- Student member of **National Service Scheme (NSS)** student chapter in RVR & JC College of Engg., Guntur.

Social Activities:

- Appointed as a **Presiding Officer** for ZPTC/MPTC Elections by District Election Authority, Andhra Pradesh, May-2014 General Elections.
- Participated in **TSUNAMI-Relief Camp** at Nizampatnam Harbour organized by NSS of RVR & JC College of Engg., Guntur, in 8th & 9th Jan 2005.



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Research Projects:

- **IOT incubator Cell for Agricultural Applications.** under A Scheme for promotion of Innovation, Rural Industry and Entrepreneurship (ASPIRE), India, (Regn No:AP/2019/0237208), DhaneKula Institute of Engineering and Technology, Vijayawada Budget: **125.25 L**

Consultancy Projects:

- **MoU Signed with U-Lab Systems, USA,** and Received Projects on Health Care Domain.

Professional Memberships:

- **ACM**
- **IEEE**
- **IAENG**

(Prof. K. Prabhakar)

Signature