# B. V. V. Sangha's
# Basaveshwar Engineering College (Autonomous), Bagalkot
# Department of Computer science and Engineering

I.  **About Research Centre:**

- **Year of Establishment**          :                    **2004-2005**

- Major Research Areas          :                    **05**

    1.  Image and Video Processing

    2.  Pattern Recognition

    3.  Wireless and Sensors Networks

    4.  Mobile Networks

    5.  Biometric Security

- No. of research guides enrolled at our research centre   :          **08**

- No. of internal faculty guiding the candidates          :          **02**

- Faculty with Ph. D.          :          **05**

- Our Faculty pursuing Ph. D.       :          **03**

- Total number of registered candidates at the research centre   :   **19** (Currently on going)

- No. of candidates awarded Ph. D. till date          :          **13**

## II. Research Guides at the Research Centre

| Sl. No. | Name of the Guide | Area of Specialization |
|---------|-------------------|------------------------|
| 1. | Dr. V. B. Pagi | Image and Signal processing |
| 2. | Dr. S. V. Saboji | Wireless and Mobile Networks |
| 3. | Dr. (Smt) S. R.  Patil | Pattern Recognition and Image processing |
| 4. | Dr. (Smt) S. P. Bangarshetti | Pattern Recognition and Image processing |
| 5. | Dr. L. B. Bhajantri | Wireless and Sensor Networks |
| 6. | Dr. (Smt) B. M. Reshmi | Medical Image processing |
| 7. | Dr. Vilas Naik | Image and Video Processing and Analytics |
| 8. | Dr. Sanjeevkumar M. Hatture | Multimodal Biometrics |
| 9. | Dr. Anil Devangavi | VANET |

## III. Research Scholars Pursuing Ph. D Program

| Sl. No. | Name of the Student | Name of the Guide | Year of Registration | Research Topic |
|---|---|---|---|---|
| 1. | VEENA PATIL | Dr. S. R. PATIL | 2015 | Automatic Detection of Cancerous Cells in Histopathological Images of Uterine Tissue |
| 2. | BHARGAV H. K. | Dr. V. B. PAGI | 2016 | Recognition and Correction of Kannada Handwritten documents with strikeouts and Annotations |
| 3. | SHUBHADA KULKARNI | Dr. S. R. PATIL | 2016 | Enhancing Security of Data Aggregation in Wireless Multimedia Sesor Networks based on Similarity matching and Selective Encryption for Multimedia Data |
| 4. | SUJATA KARADDI | Dr. S. R. PATIL | 2015 | |
| 5. | SHARADA KULKARNI | Dr. S. P. BANGARSHETTI | 2015 | |
| 6. | SHIVANAND MANJARAGI | Dr. S. V. SABOJI | 2016 | Secured Vertical Handover System for Heterogeneous Wireless Networks |
| 7. | PUNDALIK R. | Dr. LOKESH BHAJANTRI | 2015 | Secure Data Processing, Classification, and Management in Semantic Sensor Web |
| 8. | VASUDHA M. BONAL | Dr. LOKESH BHAJANTRI | 2017 | Cognitive Agent Based data Synchronization and Fault Tolerance in Ubiquitous Network |
| 9. | PRASANT BALURGI | Dr. LOKESH BHAJANTRI | 2017 | Data Perception and Resource Management in Cognitive Internet of Things |
| 10. | GANGADHARAIAH. S. | Dr. LOKESH BHAJANTRI | 2015 | Resource Management and Secure Routing in Internet of Things |
| 11. | TABASSUM MUJAWAR. | Dr. LOKESH BHAJANTRI | 2017 | Trust based Access Control Mechanism for Cloud Environment |
| 12. | SHOBHA R. BHARAMAGOUDAR | Dr. S. V. SABOJI | 2017 | Routing System for Mobile Opportunistic Network using Microscopic and Macroscopic schemes |
| 13. | SAVITRI PATIL | Dr. S. R. PATIL | 2017 | Performance Quality Analysis of Biometric System for Secured Person Identification & Authentication |
| 14. | UMASHANKARA PRASANNA C. M. | Dr. S. P. BANGARSHETTI | 2017 | Efficient Offline Pattern Recognition System for Handwritten Kannada Language Script using Multiple Classifier Combination |
| 15. | VINOD BIRDAR | Dr. V. B. PAGI | 2018 | Developing Methodologies for Navigation Using Multimedia To Help The Visually Impaired |
| 16. | RAMYA S. YAMIKAR | Dr. BHARATI RESHMI | 2019 | Automatic Detection of Diabetic Retinopathy using Fundus Images |

| Sl. No. | | | | |
|---|---|---|---|---|
| 17. | SHARANABASAVA C. INAMADAR | Dr. S. P. BANGARSHETTI | 2017 | |
| 18. | USHA JOALEKAR | Dr. VILAS NAIK | 2021 | |
| 19. | SANGAMESH SAJJAN | Dr. VILAS NAIK | 2021 | |
| 20. | GIRISH SHETTER | Dr. ANIL DEVANGAVI | 2021 | |
| 21. | VINAYAK TELSANG | Dr. ANIL DEVANGAVI | 2021 | |
| 22. | PRYIYANKA TUPPAD | Dr. BHARATI RESHMI | 2021 | |

## IV. Ph. D`s Awarded from Research Centre

| Sl. No. | Name of the Student | Name of the Guide | Title of Thesis | Year of Degree Awarded |
|---|---|---|---|---|
| 1. | D. G. SAVAKAR | Dr. BASAVARAJ S. ANAMI | Design and Development of Machine Vision Methodologies for Common Applications in Applications in Agriculture and Horticulture Sciences | 2010 |
| 2. | RASHMI RACHH | Dr. BASAVARAJ S. ANAMI | Studies on Architectures and Implementations of Advanced Encryption | 2012 |
| 3. | V. C. BURKAPALLI | Dr. BASAVARAJ S. ANAMI | Design and Development of Machine Vision Methodologies for Food Objects Recognition: An Attempt towards Automatic Food Serving by Robot System | 2011 |
| 4. | SAROJINI B. K. | Dr. BASAVARAJ S. ANAMI | Analysis of Visual Evoked Potential s in the Diagnosis of Optic Nerve Diseases using Digital Signal Processing Techniques | 2017 |
| 5. | V. B. PAGI | Dr. BASAVARAJ S. ANAMI | Recognition and classification of sound patterns produced by two wheelers for automated diagnosis | 2014 |
| 6. | P. H. UNKI | Dr. BASAVARAJ S. ANAMI | Recognition, Analysis,and Interpretation of Certain Brain MR Images | 2017 |
| 7. | M. M. KODABAGI | Dr. S A ANGADI | Techniques for Web Service Based Hand Held System Useful in Understanding Display Boards | 2014 |
| 8. | VILAS NAIK | Dr. S A ANGADI | Soft Computing and Graph Theoretic framework for Multimodal Video selection and Summarization | 2018 |
| 9. | S. M. HATTURE | Dr. S A ANGADI | Soft Computing and Graph Theoretic Approaches for Multimodal Biometrics System | 2019 |
| 10. | V. C. KAGAWADE | Dr. S A ANGADI | Efficient and robust person identification using face and iris | 2019 |

| | | | biometrics | |
|---|---|---|---|---|
| 11. | PRAVEEN S. CHALLAGIDAD | Dr. MAHANTESH N. BIRJE | Design and Analysis of some Security Schemes for Private Clouds | 2020 |
| 12. | R. S WADAWADAGI | Dr.V B PAGI | Development of an Integrated Framework for Web Content Analysis | 2021 |
| 13. | PAVAN KUNCHUR | Dr. S. P. BANGARSHETTI | Multistream Process for Photographic Mosaicing Using Crowd Sourced Data and its Performance Analysis | 2021 |

## V. Research Projects Carried out in the Department

| Sl.No. | Title | Funding Agency | Amount in Lakhs | Year |
|---|---|---|---|---|
| 1. | Modernization of Computer Networks and Simulations Lab | TEQIP | 4.00 | 2007 |
| 2. | Modernization of Database Management Systems Lab | TEQIP | 8.00 | 2008 |
| 3. | An exploration of Algorithm Approaches to Graph Matching and its Applications | VTU | 3.10 | 2010 |
| 4. | Multimedia, Vision Computing and Intelligent Systems Lab | TEQIP | 9.1625 | 2011 |
| 5. | Multimedia, Vision Computing and Intelligent Systems Lab | TEQIP | 9.8115 | 2012 |
| 6. | Wireless and Mobile Computing Lab | TEQIP | 5.51789 | 2012 |
| 7. | Learning Resources Lab | TEQIP | 2.5000 | 2013 |
| 8. | Data Mining and Information Systems Lab | TEQIP | 9.2020 | 2013 |