

## CURRICULUM VITAE

**Dr Ruksar Fatima**  
**Vice Principal**  
**KBN College of Engineering**  
**Gulbarga-585104**  
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### **CAREER OBJECTIVE: -**

Working in KBN College of Engineering for the past 15 years as a dedicated, resourceful education professional. Wish to become the Principal of KBN College of Engineering with a proven ability to create and monitor policies and practices that promote a safe learning environment, ensure the college culture that encourages continuous improvements for lecturers and students, develop an environment that encourages the staff and students in the research and development of the college.

### **EXPERIENCE: -**

#### 1. Role: - Lecturer

Institution: - KBNCE

Duration: - 2002 to 2008

Roles and Responsibilities: -

- Started working at KBN College of Engineering as a lecturer in Department of Electronics and Instrumentation.
- Responsible for making the Department time table and also was coordinator for Seminars and Project Work of students.
- Got promoted as Head Department of Bio –Medical Engineering in the year 2006.
- Convener of hospitality committee in during NBA committee visit to college in 2006.
- Responsible in setting up the Department of Bio-Medical Engineering and also all the lab equipment's were procured under my supervision.

#### 2. Role: - Assistant Professor

Institution: - KBNCE

Duration: - 2008 to 2013

Roles and Responsibilities: -

- Started the Research and Development Cell for in house projects and conducted the projects for all departments in the year 2008 and 2009.
- Alumni cell was created in the year 2010 and the data base for alumni was created.
- The First International Conference on “Nano Science and Nano Technology” was convened in the year 2011.
- The first on campus alumni meet was convened in the year 2013.

- Student internship program for Bio-Medical students with proper certifications was designed.\

3. Role: - Professor

Institution: - KBNCE

Duration: - 2013 till date

Roles and Responsibilities: -

- Visited Jeddah for the alumni meet in the year 2014.
- Started alumni chapters in Jeddah, Dubai, Mumbai and Delhi.
- Published the papers in international Journals.
- Series of lectures were designed and presented in Bangkok and Goa for the skin lesion awareness organized by B.Bessons lap-publishing-house.

4. Role: - Vice Principal

Institution: - KBNCE

Duration: - December 2014 till date

Roles and Responsibilities: -

- Promoted as Vice Principal and Examination In charge for KBNCE in the year 2014 December.
- Completed Ph.D. in the year 2016 January from JNTU Hyderabad.
- Disbursed the duties of examination coordinator by taking up the responsibility of chief supervisor throughout the examination periods for all the past three exams.
- Got appreciation letters consecutively for past three exams for proper conduct from VTU.(2015-2016)
- Convener for Women's Day celebration with co-curricular activities on campus from 2015.
- Convener for Workshop on "Empowering Women Empowering Humanity" at KBNCE campus.
- Attended alumni meet on December 28<sup>th</sup> 2015 at Delhi.
- Coordinator for NAAC report preparations at KBNCE

**EDUCATION: -**

Degree	University	Year Of Passing	Name Of Institution	Percentage
Ph.D.(CSE)	JNTU HYDERABAD	2016	JNTU	
M.Tech (CSE)	VTU BELGAUM	2003	KBNCE	64.45% aggregate
MBA	PTU,Jalandhar	2012	ELITE GROUP OF STUDIES	72%
BE(E&Inst)	GUG, Gulbarga	1999	KBNCE	77%

Intermediate	Board of Intermediate, Hyderabad.	1994	Sri Padmavati Jr. College.	60%
SSC	Board of Secondary, Hyderabad.	1992	St. Maaz Public School	70%

**KEY STRENGTHS: -**

- Strategic planning
- Curriculum development
- Leadership and staff training
- Flexibility
- Training
- Project management
- Decision making
- Adaptability
- Self-motivation
- Team leadership

**RESEARCH PROJECTS/ ACADEMIC PROJECTS: -**

**1. Ph.D THESIS: -**

**Jawaharlal Nehru Technological University, Hyderabad**

**TITLE: Segmentation Techniques of Medical Image Processing For Skin Lesion Recognition**

Under the guidance

Supervisor

Dr. Mohammed Zafar Ali Khan

Professor & Head of the Department Electrical Engineering ,  
IIT Hyderabad

Co-Supervisor

Dr. A. Govardhan  
Principal, JNTU College Of Engineering Technology ,  
JNTU Hyderabad

Melanoma is the most widely occurring and life threatening form of skin cancer. Early detection of in situ melanoma has challenged researchers for many decades now. Currently there exists no computer aided mechanisms to accurately detect early melanoma. The currently existing computer aided diagnostics mechanisms are capable of melanoma classification and are unable to detect in situ melanoma. The thesis introduces a Multi Parameter Extraction and Classification System (*MPECS*) to aid early detection of skin cancer melanoma. The *MPECS* defines the skin lesion images in terms of characteristic parameters which are further used for classification. In the thesis the extraction of 21 parameters is achieved using a six phase approach. The parameters extracted are analyzed using statistical methods. It is clear from the results obtained that no single parameter can affirm the detection of in situ melanoma, hence an advanced analysis mechanisms considering all the parameters need to be adopted to effectively detect melanoma in its initial stages.

The *MPECS* adopts a supervised machine learning algorithm for classification. The dermoscopic images are represented by extensive parameter sets extracted using a six phase approach. The thesis discusses the operation of the *MPECS* in the training and testing phase. The adoption of the Multilayer Feed Forward Neural Network (MFNN) classifier is justified, its proficiency in accurately diagnosing and classifying early signs of skin cancer melanoma in dermoscopic images of skin lesions is proved through the experimental results discussed in the manuscript.

## **2. M.Tech PROJECT**

### **Title: A Crypto Algorithm For Network Security**

To develop a crypto-algorithm, which could be used in a satellite based communication network. Major points that are covered in the main objective:

The main objective is to study network security present state of art and the security requirements and to develop a highly crack resistant crypto algorithm using Rajan Transform, which could be used to encrypt data. To study the theoretical details involved in developing the required original crypto algorithm. To develop a computer simulation of the encryption algorithm. To study the technical details related to authentication, ciphering, synchronization and other security amenities. To study design details and circuit schematics of the crypto system. To study technical details of key management system. To study technical and operational details of crypto features management system like altering the data formats number of permutations in the key sequences and data sequences, setting the parameters required by an algorithm choosing a crypto algorithm.

Demand Assigned Multiple Access is the technology of the day in the field of satellite communication. Information exchange of voice and other digital data is a day to day requirement but the communication should be secured and protected from intercept. Propelled by this requirement people generally go in for off the shelf encryption decryption hardware units supplied by the manufacturers of telecommunication equipment. This leads to a threat to the security involved in the information exchange. In order to overcome this difficulty one has to develop a crypto algorithm starting from design principles which would guarantee state of the art cryptographic technology and the same time security cover to confront any type of intercept threat escalation.

This approach of encryption/ decryption is very unique and also applicable to all environments of textual messages or data. The application of Rajan Transforms to every eight bit file of code makes it different and unique. The secret code involve and the compaction of encryption key are the best assists of this project. The time is very much reduced with the help of embedded processors that are made to substitute in place of small time consuming software programs.

### **3. B.E .PROJECT**

#### **TITLE:REMOTE SENSING AND REMOTE CONTROLLING OF PROCESS PARAMETERS USING PC**

In modern industries monitoring and controlling of process parameters at various places is essential. Hence the transmission of signals from the process to the process controller involves standard signals like current signals and pneumatics signals which provide easier interface of control loop as well as for other reasons. Current signaltransmission is adopted when a control loop has been implemented using analog electrical signal also. It is most common to transmit the along signal as a current level.

There are three significant points regarding the use of current transmission to represent the controlled variable

Load Impedance

Interchangeability

Measurement Power Supply

In the project turbine type flow meter is used as flow sensor.

The project basically deals with controlling of parameters by sitting at a remote place here we are considering five parameters like pressure , height, flow temperature and delay.

## **PROFESIONAL ACHIEVEMENTS**

1. Head of the department from 2006 for department of Bio Medical Engineering at KBNCE.
2. Promoted as Vice-Principal of KBNCE in the year January 2015.
3. Controller of examinations at the college campus of KBNCE.
4. Actively involved in the alumni associations.
5. Convener for the first alumni meet held at KBNCE campus in the year 2012.
6. Visited Jeddah KSA for alumni meet in the year 2013.
7. Visited Delhi in December 2015 for alumni meet at Delhi.
8. Patron in international chapters of alumni i.e; Dubai chapter, Riyadh chapter and also in Delhi chapter and Mumbai chapter.
9. Given the responsibility of Director of R&D Cell for the conduct of research activities at KBNCE Campus.
10. Convener for the first international conference on “NANO SCIENCE AND NANO TECHNOLOGY” in Gulbarga region.
11. Executive Council member for IETE Gulbarga region.
12. Convener for women’s day celebration at KBNCE for year 2015 and 2016.
13. Team leader for prize committee in Golden Jublie celebrations of Khaja Education Society.
14. Core Committee Member for sports events conducted by Khaja Education Society.
15. Represented KBNCE at VTU Regional Centre Gulbarga for NBA workshop.
16. Played a key role during the visit of NBA committee to college campus.

17. Experienced in facing the Local Enquiry Committee of VTU.

**PUBLICATIONS RELATED TO Ph.D RESEARCH WORK: -**

1. Ruksar Fatima, Mohammed Zafar Ali Khan, A. Govardhan and KashyapDhruve. "Computer Aided Multi-Parameter Extraction System to Aid Early Detection of Skin Cancer Melanoma ",IICSNS International Journal of Computer Science and Network Security,Vol. 12 No. 10 pp. 74-86.2012

2. Ruksar Fatima,Dr.Mohammed Zafar Ali Khan,Dr. A. Govardhan, KashyapDhurve "DETECTING IN-SITU MELANOMA USING MULTI PARAMETER EXTRACTION AND NEURAL CLASSIFICATION MECHANISMS International Journal of Computer Engineering and Technology (IJCET), ISSN 0976 –6367(Print), ISSN 0976 – 6375(Online) Volume 4, Issue 1, January- February (2013), © IAEME impact factor:3.9580

3. Ruksar Fatima, Mohammed Zafar Ali Khan, A. Govardhan.ICCCE-2012 INTERNATIONAL CONFERENCE ON COMPUTING AND CONTROL ENGINEERING ISBN 978-1-4675-2248-9 2012 PUBLISHED BY COMIMBATORE INSTITUTE OF INFORMATION TECHNOLOGY" DETECTION OF MELANOMAS USING DATA MINING"

4. Ruksar Fatima, Mohammed Zafar Ali Khan, A. Govardhan INTERNATIONAL CONFERENCE ON LATEST TRENDS IN NANO SCIENCE AND NANO TECHNOLOGY "IMAGING SYSTEM WITH DECISION SUPPORT FOR INSPECTION OF PIGMENTED SKIN LESIONS ANSS MELANOMA DIAGNOSIS"

5. Ruksar Fatima, Head Dept. Of Bio-Medical Engg KBNCE, Gulbarga Dr. Zafar Ali Khan, IIIT Hyderabad Dr A. Govardhan, Director Evaluation JNTU Hyderabad INTERNATIONAL CONFERENCE ON LATEST TRENDS IN NANO SCIENCE AND NANO TECHNOLOGY" The ABCD Formula for Melanoma Diagnosis Using C4.5, a Data Mining System".

6. Ruksar Fatima, Mohammed Zafar Ali Khan, A. Govardhan NATIONAL CONFERENCE ON APPLICATIONS OF DATA MINING IN MANAGEMENT OF METABOLIC AND DEGENERATIVE DISORDERS"Melanoma Recognition Using Representative and Discriminative Kernel Classifiers

7. Asma Parveen, Sana Fatima, Dr. Ruksar Fatima "Cloud Shield: To Prove Credibility of Cloud Services by Consumer Feedback" International Journal Of

Science and Technology Research, Volume 5, Issue 5, May 2016 **Impact Factor 3.19.**

8. Dr. Ruksar Fatima, Umera Banu, Asma Parveen “Low Power Embedded System for Development of Portable Insulin Injection Pump” International Journal of Innovative Research in Technology, Volume 2 Issue 12 May 2016 **Impact Factor 2.1**

### **PERSONALITY TRAITS**

- Ready to accept challenges and work independently.
- Good at motivating people and creating team work.
- Good decision making in problem solving.
- Dedication and honesty towards work.

### **PERSONAL DETAILS**

NAME: Dr. RUKSAR FATIMA  
Father's Name: Syed Qutubuddin  
Date Of Birth: 03-10-1977  
Nationality: Indian  
Marital Status: Married  
Address : 5-754/b  
Choti Devdi, Roza (k)  
Kalaburagi

I, hereby declare that the above information is true to the best of my knowledge.

Date: 28/03/2016  
Place: Kalaburagi

Dr. Ruksar Fatima

### **REFERENCES: -**

1. Dr. A. Govardhan  
Principal  
JNTU College of Engineering  
JNTU Hyderabad.  
Mobile No: 09440887733
2. Prof A.S. Inamdar  
Bhalki Engg College,  
Department of Electronics and Communication Engineering  
Mobile No: 09448567915



