

CURRICULUM VITAE OF

Iffat Ara

Associate Professor

Department of Information and Communication
Engineering

Pabna University of Science and Technology

PABNA, BANGLADESH.

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CAREER OBJECTIVE

Looking for Doctoral Research fellowship or any grant for Doctoral research. To work with a reputed educational institute, which encourages growth and offers working environment with excellent prospect for advancement and opportunities to work on interesting assignments and ample scope to further sharpen skill, knowledge and expertise to serve the university better and thus work for the advancement of my country as well.

RESEARCH INTEREST

Biomedical Signal Processing and Image Processing, Heart Modeling, Machine Learning.

EDUCATIONAL QUALIFICATION

- **M. Phil in Information and Communication Engineering**
 - Year of Examination: 2019
 - Institution: **Pabna University of Science and Technology**
 - Thesis Title: **“Model of Heart for Different Conduction System of Heart: In Normal and Abnormal Cases”**
 - Result: **Awarded**

- **M. Sc. (Thesis Group) in Applied Physics & Electronic Engineering**
 - Year of Examination: 2010 (Held in 2011)
 - Institution: Rajshahi University, Rajshahi
 - Thesis Title: **“ECG Signal Analysis Using Wavelet Transform”**
 - Result: **First Class (1st position)**
 - Marks (%): **82.87**
 - CGPA: **4.00** (out of 4.00)

- **B.Sc. (Four-Year Hon’s Course) in Applied Physics & Electronic Engineering**
 - Year of Examination: 2009 (Held in 2010)
 - Institution: Rajshahi University, Rajshahi
 - Result: **First Class (1st position)**
 - Marks (%): **73.28**
 - CGPA: **3.94** (out of 4.00)

- **Higher Secondary Certificate (Science)**
 - Year of Examination: 2004
 - Institution: Gov't Mohila College, Pabna
 - Board: Rajshahi
 - Result: **GPA-4.60**(out of 5.00)
- **Secondary School Certificate (Science)**
 - Year of Examination: 2002
 - Institution: Adarsha Girl's High School, Pabna
 - Board: Rajshahi
 - Result: **GPA-4.50**(out of 5.00)

ACHIEVEMENT AWARD

- **Title:** Agrani bank Gold medal for faculty first in M. Sc Examination -2010 from Rajshahi University.
- **Title:** Merit scholarship for result of B. Sc Examination-2009 from Rajshahi University.

TEACHING POSITIONS

<u>Institution/Employer</u>	<u>Position/Title</u>	<u>Period</u>	<u>Nature of work</u>
Associate Professor	Department of Information and Communication Engineering, Pabna University of Science and Technology	22 th December 2020 to till now	Teaching, Research, and Development
Assistant Professor	Department of Information and Communication Engineering, Pabna University of Science and Technology	12 th November, 2014 to 21 th December 2020	Teaching, Research, and Development
Lecturer	Department of Information and Communication Engineering, Pabna University of Science and Technology	12 th November, 2012 to 12 th November, 2014	Teaching, Research, and Development

LANGUAGE PROFICIENCY

- Native: Bengali.
- English was the instruction medium in B.Sc. (Hon's) & M.Sc. Program.

COMPUTER LITERACY

- **Operating System:** Windows-98, windows XP.
- **Programming Language:** C, C++, MATLAB, Python, COMSOL and VHDL.
- **Application Software:** MS Word, MS Excel, Power Point, Internet Browsing, Photoshop etc.

MAJOR COURSES STUDIED

Basic Electronics; Applied Electricity, Magnetism & Networks; Applied Mechanics & Optics; Thermodynamics, Refrigeration, Air-Conditioning & Applied Acoustics; Electronic Circuits & Devices; Electrical Machine & Filter; Digital Electronics; Quantum Mechanics, Atomic & Nuclear Physics; Operating System, Programming in C and C++; IC Design & Communication Electronics; Pulse & switching circuit; Basic Solid State Physics & Material Science; Instrumentation & control Systems; Non conventional Energy; Electromagnetic Theory & Antenna; Geophysics; Microprocessor & Microcomputer; Communication Engineering; Radio & TV Engineering; Computer Networks & Data Communication; Computer Architecture & Organization; Telecommunication; Digital Communication; Power Electronics & Control System; Biomedical & Analytical Instrumentation; Wireless Communication; Image Processing; VLSI design.

PERSONAL DETAILS

Name : Iffat Ara
Father's Name : Mosarrof Hossain
Mother's Name : Delwara Hossain

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Pabna, BANGLADESH.

Present Address :
Village: Radhanagor (Narayonpur), Thana: Pabna Sadar
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Nationality : Bangladeshi (By Birth)
Religion : Islam
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REFERENCES

- (1) Mr. Rezaul Islam
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Electronic Engineering,
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- (2) Dr. Sheikh Rashel Al Ahmed
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I hereby certify that the above information is true and correct to the best of my knowledge and belief.



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List of Publications

- **Iffat Ara**, "Numerical Simulation of Mathematical Heart Model in COMSOL" International Journal of Engineering and Technology , Volume 9, Issue 1, Pages:77-83, 2020 ISSN: 2227-524X, <http://dx.doi.org/10.14419/ijet.v9i1.30052>
- **Iffat Ara**, "Denoising and Analysis of EMG Signal using Wavelet Transform" Global Journal of Medical Research, Volume 20, Issue 1, March 2020, ISSN 2249-4618, DOI: <https://medicalresearchjournal.org>.
- **Iffat Ara**, "Parameters estimation of Fitzhugh-Nagumo model" *Biomedical Research 2019; volume 30, issue 5, Pages: 713-715, 2019, ISSN 0970-938X. (IF:0.219, SCOPUS Indexed)* <https://doi.org/10.35841/biomedicalresearch.30-19-267>
- **Iffat Ara**, "Solving Boundary Value Problem in 2D Using Finite Element and Finite Difference Method" International Journal of Engineering Research and Technology, Volume 12, Number 12 (2019), Pages. 3133-3137, . ISSN 0974-3154, (**IF:0.15, SCOPUS Indexed**) https://www.ripublication.com/irph/ijert19/ijertv12n12_144.pdf
- **Iffat Ara**, "Modeling the Electrical Activity of Heart" Journal of Biomedical Research and Reviews, Volume 2, Issue 2, Pages: 22-26, 2019, ISSN: 2581-7388, (**ISI**) <http://innovationinfo.org/articles/JBRR/JBRR-127.pdf>
- Farhana Aktar, **Iffat Ara**, Dr. Pallab Kanti Podder, "Shadow Detection and Removal from a Static Image" International Journal of New Technology and Research (IJNTR), Volume-5, Issue-11, Pages: 01-07, November 2019, ISSN: 2454-4116. https://www.ijntr.org/download_data/IJNTR05110006.pdf
- **Iffat Ara**, M.N. Hossain and M. A. Rahim, "ECG Signal Analysis Using Wavelet Transform," International Journal of Scientific & Engineering Research - IJSER, vol. Volume 5, Issue-5, pp. 1509-1515, May-2014, ISSN: 2229-5518. <https://www.ijser.org/researchpaper/.pdf>
- **Iffat Ara**, M.N. Hossain and S.M.Y.Mahbub, "Baseline Drift Removal and De-noising of ECG signal Using Wavelet Transform," International Journal of Computer Applications- IJCA, Volume 95, Number-16, pp. 15-17, June-2014, ISSN: 0975- 8887 <https://www.ijcaonline.org/archives/volume95/number16/16678-6783>, DOI: 10.5120/16678-6783
- S.M.Y. Mahbub, P.M.Ghosh, **Iffat Ara** and M.K.Noman "The peak to Average Power Reduction(PAPR) Technique of OFDM Signal by Using Clipping and Filtering Method," Global Journal of Researchs in Engineering", Volume 14, pp. 31-35, 2014, ISSN: 2249-4596 <https://engineeringresearch.org/index.php/GJRE/article/view/1219>