

**A**  
**Report on**  
**Winter School on Biometrics for Secured Authentication:**  
**Fundamentals and Advances**  
**December 23-27, 2013**



**Course Co-ordinator**  
**Dr. R. S. Holambe**



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**Shri Guru Gobind Singhji Institute of Engineering**  
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Winter School on Biometrics for secured Authentication: Fundamentals and Advances was held during 23<sup>th</sup> and 27<sup>th</sup> December 2013, organized by Department of Instrumentation Engineering at Shri Guru Gobind Singhji Institute of Engineering & Technology, Vishnupuri, Nanded, an autonomous institute affiliated to the Government of Maharashtra state. It was sponsored by Technical Education Quality Improvement Program phase-II (TEQIP-II) of Government of India.

The winter school focused on bringing out new trends in Biometrics in various modalities such as Iris, Face, Fingerprint and Voice. Besides, the winter school also aimed to bring together researchers, scientists, engineers, academia and practitioners from industry to exchange and express their views, ideas, and insights about the facets of the Biometrics school. The primary objective of the school was to furnish a platform for young researchers to present their research and have interactions and in-depth discussions with their counterparts from all over India.

The winter school was entirely planned and coordinated by Dr. R. S. Holambe. Eminent speakers and experts from Universiti Teknologi Petronas, Malaysia, IIT's and renowned institutes glorified the Winter School.

The winter school 2013 was scheduled from December 23, 2013 to December 27, 2013. The inaugural function of the school was held at 9:30AM on December 23, 2013. The inauguration accomplished in the presence of Chief guest Dr. Sumantra Dutta Roy, Dr. Sarat Chandra Dass Guest of honor, Dr. L. M. Waghmare Patron of the school, Dr. A. B. Gonde TEQIP coordinator, and Dr. R. S. Holambe Course coordinator. The inauguration was anchored by Ms. Roopali S. Biyani.

The daily plan of the Winter School of four sessions (one and half hour each) in a day was scheduled in prior, and was executed accordingly.

65 Participant in total, 27 from different parts of country like Karnataka, Himachal Pradesh, Chhattisgarh, Maharashtra, and 38 from Our institute including faculty members and MTech students of Instrumentation and Electronics engineering



The School began with the session of Prof. Dr. Sumantra Dutta Roy from IIT Delhi. His focus was on various research methodologies on Fingerprint Analysis including different classifiers. The session continued from 10-11:45AM.

In the next session, Prof. Sarat Chandra Dass from Universiti Teknologi Petronas, Malaysia delivered a lecture on the Overview of Statistical Tools for Biometrics. He continued his talk for the rest of the day.

Second day of the school included the sessions on Hidden Markov Model, Gaussian Mixture Model and Performance measures of the biometric systems by Prof. S. C. Dass.

Dr. S. G. Kanade from TSSM's BSCoER, Narhe, Pune and Dr. A. D. Rahulkar from AISSMSIoIT, Pune carried out alternate session for the third day of the school.

Dr. S. G. Kanade focused on Performance Evaluation of Biometric Systems and Biometrics with Cryptography for Improved security, and Dr. A. D. Rahulkar focused on his expertise on Fundamentals and Advances on Iris Recognition System.

Dr. Hemant A. Patil from (DA-IICT), Gujarat started the session for the fourth day on the Fundamentals of Speech Processing, and features for speaker recognition whereas Dr. S. V. Gangashetty from IIIT, Hyderabad carried out the next two sessions on Voice Biometrics.

On last day of winter school, Dr. A.K. Ray, Vice-chancellor, BESUS (Kolkata) and Dr. T.K Basu from IIT Kharagpur delivered lectures on Fundamentals & Advantages of Pattern Recognition Techniques and Engineering Research in Biometrics respectively.

The coordinator of winter school Dr. R.S Holambe delivered his lecture on Orthogonal Transforms and Face Recognition and made an emphasis on future extent in database management used for UIDAI Scheme and security systems in the concluding session.

Photo session followed by certificate distribution was held in presence of dignitaries in front of administration Building after the last session of winter school.

## Photo Album:











