

## List of Publications – Mathematics

### A) PRESENT FACULTY

#### Dr. Gobardhan Rano

##### Peer Reviewed Journals:

- 1) “Some Results on Fuzzy Metric Spaces”, **G. Rano**, T. Bag, S. K. Samanta, *Journal of Fuzzy Mathematics*, 2011, **19** (4), 925-938.
- 2) “Inter Relation Between Fuzzy Normed Linear Space And Generating Spaces of Quasi-norm Family”, **G. Rano**, T. Bag, S.K.Samanta, *Journal of Fuzzy Mathematics*, 2013, **21** (3), 677-688.
- 3) “Finite Dimensional Generating Spaces of Quasi-norm Family”, **G. Rano**, T. Bag, S. K. Samanta, *The Iranian Journal of Fuzzy Systems*, 2013, **10** (5), 115-127.
- 4) “Bounded Linear Operators in Generating Spaces of Quasi-norm Family”, **G. Rano**, T. Bag, S. K. Samanta, *The Journal of Fuzzy Mathematics*, 2013, **21**(1), 51-58.
- 5) “Hahn-Banach Extension Theorem in Generating spaces of Quasi-norm Family”, **G. Rano**, T. Bag, S. K. Samanta, *Ann. Fuzzy. Math. Inform.*, 2014, **7** (2), 239-249.
- 6) “Some Geometric Properties of Generating Spaces of Semi-norm Family”, **G. Rano**, T.Bag, S.K.Samanta, *Ann. Fuzzy. Math. Inform.*, 2014, **7** (5), 825-836.
- 7) “Kirk's Fixed Point Theorem in Generating Spaces of Semi-norm Family”, **G. Rano**, T. Bag, S. K. Samanta, *General Mathematics Notes*, 2014, Accepted.
- 8) “Asymptotically regular mapping and fixed point theorems in Generating spaces of Quasi-norm family”, **G. Rano**, T. Bag, S. K. Samanta, *Ann. Fuzzy. Math. Inform.*, 2014, Accepted.

#### Dr. Mani Shankar Mandal

##### Peer Reviewed Journals:

- 1) “Analysis of Flow Fields in a Flexible Tube with Periodic Constriction”, S. Mukhopadhyay, P. R. De, **M. S. Mandal** and G.C. Layek, *Appl. Appl. Math.*, 2011, **6**, 2045-2063.
- 2) “Pulsatile flow of an incompressible, inhomogeneous fluid in a smoothly expanded vascular tube”, **M. S. Mandal**, S. Mukhopadhyay and G. C. Layek, *Int. J. Eng. Sci.*, 2012, **57**, 1-10.
- 3) “Pulsatile flow of shear-dependent fluid in a stenosed artery”, **M. S. Mandal**, S. Mukhopadhyay and G. C. Layek, *Theoret. Appl. Mech.*, 2012, **39**, 209-231.

4) "Numerical investigation on pulsatile flow through asymmetric double constrictions", **M. S. Mandal** and G. C. Layek, *Acta Technica.*, 2012, **57**, 239-259.

5) "Bifurcation phenomena and control for MHD flows in a smooth expanded channel", G. C. Layek, **M. S. Mandal** and H. A. Khalaf, *Chin. Phys. B.*, 2014, Accepted.

### **Ali Akbar Shaikh (Part- Time Lecturer)**

#### **Peer Reviewed Journals:**

1) "A two warehouse inventory model for deteriorating items with time dependent partial backlogging and variable demand dependent on marketing strategy and time", A. K. Bhunia and **A. A. Shaikh**, *International Journal of Inventory Control and Management*, 2011, **1**, pp 95-110.

2) "A deterministic model for deteriorating items with displayed inventory level dependent demand rate incorporating marketing decisions with transportation cost", A. K. Bhunia and **A. A. Shaikh**, *International Journal of Industrial Engineering Computations*, 2011, **2**, pp 547-562.

3) "A two warehouse deterministic inventory model for deteriorating items with a linear trend in time dependent demand over finite time horizon by Elitist Real-Coded Genetic Algorithm", A. K. Bhunia, **A. A. Shaikh**, A. K. Maiti and M. Maiti, *International Journal of Industrial Engineering Computations*, 2013, **4**, pp 241-258.

4) "A study on two-warehouse partially backlogged deteriorating inventory models under inflation via particle swarm optimization", A. K. Bhunia, **A. A. Shaikh** and R. K. Gupta, *International Journal of System Science*, 2013, Accepted, Online published 14 Jun 2013.

5) "A deterministic inventory model for deteriorating items with selling price dependent demand and three-parameter Weibull distributed deterioration", A. K. Bhunia and **A. A. Shaikh**, *International Journal of Industrial Engineering Computations*, 2014, **5**, pp 497-510.

6) "A deteriorating inventory model with displayed stock-level dependent demand and partially backlogged shortages with all unit discount facilities via Particle Swarm Optimization", A. K. Bhunia, **A. A. Shaikh**, S.K. Mahato and C. K. Jaggi, *International Journal of System Science: Operation and Logistic*, 2014, Accepted.

7) "A memo on stock model with partial backlogging under delay in payments", A. K. Bhunia, **A. A. Shaikh**, S. Pareek and V. Dhaka, *Uncertain Supply Chain Management*, 2014, Accepted.