

# CURRICULUM VITAE

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## **Pankaj Kumar Das**

Assistant Professor

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**Research interest:** Coding Theory

**Educational qualification:** [1] B.Sc from Goalpara College (Gauhati University)

[2] M.Sc from Delhi University

[3] M. Phil. from Delhi University

[4] Ph. D. from Delhi University

(Thesis entitled: **Codes detecting/correcting periodic and solid burst errors**)

**Details of employment:** [1] 28<sup>th</sup> Sept. 2015 to till date - Assistant Professor,  
Department of Mathematical Sciences, Tezpur University

[2] 16<sup>th</sup> July 2002 to 24<sup>th</sup> Sept. 2015 - Assistant Professor,  
Department of Mathematics, Shivaji College, Delhi  
University.

**Awards / Fellowships:** [1] UGC NET Qualified.

[2] National Merit Scholarship in 10<sup>th</sup> and 12<sup>th</sup> level.

**Invited talk:** [1] Invited talk in two-days National Workshop on Cryptography,  
Department of Mathematics, University of Science and  
Technology, Meghalaya(USTM), 25<sup>th</sup> and 26<sup>th</sup> September, 2018,

**Conference presentation:** [1] Paper presentation and awarded 3<sup>rd</sup> best prize (student section)  
in IMST 2009-FIM xvii, University of Bohemia, Plzen, Czech  
Republic 23-26 May'09

[2] Paper presentation in International Conference on Current Trends in Graph Theory and Computation held in South Asian University, Sept. 17-19, 2016, New Delhi

[3] Paper presentation in National Conference on Mathematics and its Applications (NCMA-2016) held at Cotton College State University, on Oct. 21-22, 2016, Guwahati.

[4] Paper presentation in National Seminar on Science and Technology for Human Welfare held on IASST, Guwahati, Feb. 27, 2017.

[5] Paper presentation in Indian Science Congress, Manipur University, Imphal, Manipur, March 16-20, 2018.

[6] Paper presentation in International Conference on Discrete Mathematics and its Applications to Network Science (ICDMANS), BITS Pilani, Goa, July 7 - 10, 2018.

**Conference/ Workshop/Program participated:**

[1] A course on Interception and Analysis of Digital Signals under Continuing Education Program of DRDO held at SAG, Delhi, India from 19<sup>th</sup> -29<sup>th</sup> November, 2001.

[2] Symposium on AAEECC-17 & IWAA workshop, December 16-20, 2007, Department of Mathematics, Indian Institute of Science, Bangalore, India.

[3] Pre-ICM International Convention on Mathematical Sciences, University of Delhi, India, December 18-20, 2008.

[4] Eighteenth International Conference of Forum for Interdisciplinary Mathematics on Interdisciplinary Mathematical & Statistical Techniques(IMST 2009-FIM XVIII), Jaypee University of Information Technology, Wanknaghat (HP), India, August 2-4, 2009.

[5] One day Brain storming Session of Teacher Empowerment Program, May 16, 2009, Centre for Excellence in Interdisciplinary Mathematics (CEIM) in IP University, Kashmere Gate, Delhi-6, India.

[6] Science Academies' Lecture Workshop on Theory of Equation, Department of Mathematics, Shivaji College, University of Delhi, 16-17 October, 2014.

[7] One day Workshop cum Training on Patent Search and Analysis, Tezpur University Intellectual Property Right (IPR) Cell, 25<sup>th</sup> February 2017.

[8] A 2 Days Workshop on Cyber Security: Issues and Challenges, Dept. of Computer Science & Engineering, Tezpur University, January 29–30, 2018.

### Last five year's publications:

- P. K. Das, 'Codes detecting, locating and correcting random errors occurring in multiple sub-blocks', *Proyecciones Journal of Mathematics*, 38(1), pp. 129-144, 2019.
- P. K. Das, 'A class of solid burst error correcting codes derived from a reversible code', *University Politehnica of Bucharest Scientific Bulletin, Series A*, 80(4), pp. 153-162, 2018.
- L.K. Vashisht, S. Garg, Deepshikha, P. K. Das, 'On generalized weaving frames of Hilbert spaces', *Rocky Mountain Journal of Mathematics*, 48 (2), pp. 661-685, 2018.
- P. K. Das, 'Error Locating Codes and Extended Hamming Code', *Mathematicki Vesnik*, 70(1), pp. 89–94, 2018.
- P.K. Das, 'Location of Multiple Sub-Blocks with Burst Errors', *Electronic Notes in Discrete Mathematics*, 63, pp. 117-123 , 2017.
- P. K. Das and L. K. Vashisht, 'Traces of Hadamard and Kronecker Products of Matrices', *Mathematics for Applications*, 6, pp. 143–150, 2017.
- P. K. Das, 'Bounds on parity check of linear codes detecting repeated solid bursts', *Bulletin of Pure and Applied Sciences- Mathematics and Statistics*, 36 (1), pp. 62-69, 2017.
- P. K. Das and L.K. Vashisht, 'Error locating codes by using blockwise-tensor product of blockwise detecting/correcting codes', *Khayyam Journal of Mathematics*, 2(1), pp. 6-17, 2016.
- P. K. Das and L.K. Vashisht, 'On perturbation of binary linear codes', *Mathematics for Applications*, 4(2), pp. 91-99, 2015.
- P. K. Das, 'Anti-codes on solid burst of length  $b$  of anti-weight  $t$ ', *Chamchuri Journal of Mathematics*, 7, pp. 1-7, 2015.
- P. K. Das, 'Linear codes on solid bursts and random errors', *Transactions on Combinatorics*, 4 (2), pp. 45-55, 2015.
- P. K. Das, 'Solid bursts on  $m$ -metric array codes', *Southeast Asian Bulletin of Mathematics*, 39 (1), pp. 35–43, 2015.
- P. K. Das, 'Codes correcting key errors', *TWMS J. App. Eng. Math.*, 5(1), pp. 110-117 2015.
- P. K. Das, 'Bursts/CT-bursts detected by  $b$ -SBEC codes and solid bursts undetected by cyclic Codes', *Mathematical Sciences and Applications E-Notes*, 2 (2), pp. 1-9, 2014.
- P. K. Das, 'Location and simultaneous correction of burst/solid burst errors', *Turkish Journal of Mathematics and Computer Science*, 2014, pp. 1-14, Article ID 20130040.
- P. K. Das, 'Weight distribution of periodic errors and optimal/anti-optimal linear codes,' *Journal of Mathematics*, 2014, pp. 1-5, doi:10.1155/2014/971410.
- P. K. Das, 'Codes on key errors', *Cybernetics and Information Technologies*, 14 (2), pp. 31-37, 2014.

- P. K. Das, 'Codes on s-periodic random error of length b', *Palestine Journal of Mathematics*, 3(2), pp.168–174, 2014.

**Professional activities:**

[1] Editorial Board Member of *Bulletin of Pure and Applied Sciences- Mathematics and Statistics*.

[2] Reviewer of

- American Mathematical Reviews (MathSciNet)
- IEEE Wireless Communications Letters
- IEEE Access
- Cryptography and Communications
- Italian Journal of Pure and Applied Mathematics
- Khayyam Journal of Mathematics