

**Name: Prof. KOYEL CHAKRAVARTY**  
**Designation: ASSISTANT PROFESSOR**  
**Branch: MATHEMATICS**  
**E-mail: [koyel.c@iutripura.edu.in](mailto:koyel.c@iutripura.edu.in)**



**Educational Qualification(s):**

Qualification(s)	University
M.Sc	Indian School of Mines, Dhanbad
Ph.D (Thesis Submitted)	Indian Institute of Technology Guwahati

**Experience in years: -----**

Academic : Nil

**Other Information:**

a) Publication details.

List of Publications

1. Koyel Chakravarty and D.C. Dalal. A two-phase model of drug release from microparticle with combined effects of solubilisation and recrystallisation. *Mathematical Biosciences*, 272 (2016) 24-33.
2. Koyel Chakravarty and D.C. Dalal. A two-layer mathematical modelling of drug delivery to biological tissues. *Journal of Physics: Conference Series*, 759 (2016) 012023.
3. Koyel Chakravarty and D.C. Dalal. An analytical study of drug release kinetics from a degradable polymeric matrix. *Int. J. Biomath*, 11 (1) (2018) 1850011 (23 pages).
4. Koyel Chakravarty and D.C. Dalal. An analytical study of drug release to biological tissues through endocytosis. *Int. J. Dynam. Control*, 6 (2018) 167-178.

(b) Details of Seminar/Workshop/Conference.

1. December 2-5, 2015: XXVII IUPAP Conference on Computational Physics CCP 2015, IIT Guwahati, Guwahati, Assam, India. Poster presented: A Two-Layer Mathematical Modelling of Drug Delivery to Biological Tissues.
2. February 19-20, 2016: NBHM Regional Workshop On Research And Opportunities, *Indian Women & Mathematics*, IIT Guwahati,

Guwahati, Assam, India. Poster presented: Pharmacokinetic Mathematical Modelling.

3. July 10-12, 2016: International Conference on Recent Advances in Mathematics and Their Applications ICRAMTA-2016, Dept. of Mathematics, University of Rajasthan, Jaipur, India. Talk on: Mathematical Modelling of Drug Release: Polymer Degradation to Drug Transport.

4. October 5-7, 2017: World Congress on Pharmaceutical Sciences (WCPS), Goa, India. Talk on: Mathematical Modelling of Polymeric Drug Delivery.

5. December 4-6, 2017: 5th International Conference on Complex Dynamical Systems and Applications (CDSA 2017), IIT Guwahati, Guwahati 781039, India. Poster presented: Mathematical Modeling of Liposomal Drug Delivery.