



## RAMMOHAN COLLEGE

### FACULTY ACADEMIC PROFILE

Name: **Dr. Shrabani Sen**

Department: **Chemistry**

Email: [sen.shrabani@gmail.com](mailto:sen.shrabani@gmail.com)

Academic background: **MSc. PhD (IACS)**

Positions: **Assistant Professor I**

Awards/ Honours: N.A

Research interest: **Nonlinear dynamics, Bio-chemical oscillations**

Ongoing Project: N.A

Research guidance: N.A

Selected publications:

- 1. Temperature dependence and temperature compensation of kinetics of chemical oscillation: Belousov-Zhabottinskii reaction, glycolysis and circadian rhythms. Shrabani Sen, Syed Shahed Riaz and Deb Shankar Ray, J. Theo. Bio. (250), 103 (2008).**
- 2. Reaction-diffusion system with stochastic time delay in kinetics, Shrabani Sen, Pushpita Ghosh and Deb Shankar Ray, Physical Review E, 81, 056207, (2010) .**
- 3. Coherent Destruction of Tunneling with optimally designed polychromatic external field Subhasree Ghosh, Srijeeta Talukder , Shrabani Sen , Pinaki Chaudhury, Chemical Physics, 425, 73, (2013).**
- 4. Enhancing the branching ratios in the dissociation channels for  $16^{\text{O}}-16^{\text{O}}-18^{\text{O}}$  molecule by designing optimum laser pulses: A study using stochastic optimization. Srijeeta Talukder, Shrabani Sen, Bhavesh K. Shandilya, Rahul Sharma, Satrajit Adhikari and Pinaki Chaudhury. J Chemical Physics 143, 144109 (2015).**