

PMRF-ISSS Teaching Programme

Prime Minister Research Fellowship students' teaching requirement facilitated by the Institute of Smart Structures and Systems



Module PMRF-ISSS040/III/2025

Evolutionary Game Theory

Name of the PMRF student

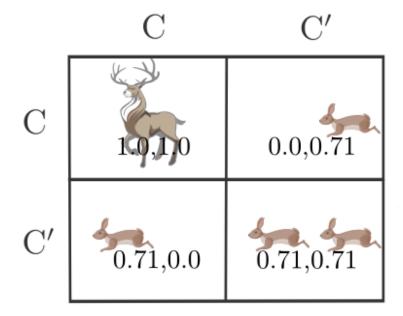
Details of the content of the module

Joy Das Bairagya

Required background of the students taught

Physics, Mathematics

Stag-hunt Game



In this course, we explore how can one mathematically model Darwinian evolution using non-linear dynamics and non-equilibrium statistical mechanics. (Book: Evolutionary Dynamics by Martin A. Nowak)

The topics covered in this course include:

- 1. What is Evolution
- 2. Evolutionary Games
- 3. Prisoners of the Dilemma
- 4. Finite Populations
- 5. Games in Finite Populations

Schedule of the module

Start date: 12/04/2025

End date: 22/04/2025

Time lectures: Everyday (11:30 am to 1:30 pm)

Schedule: Video lectures will be uploaded

Number of lectures: 10

Meeting link: Will be shared later

https://meet.google.com/mrw-yoxr-rgg

Contact email

ID: joydasbairagya@gmail.com

Registration link: https://forms.gle/dVSESYA5FJKFjFnP7