EC302 Aug 2:1

Plant-Animal Interactions  (Ecology, Behaviour and Evolution)

Instructor
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Department: Centre for Ecological Sciences
Course Time: Mon, 2:30 - 5:30 pm
Lecture venue: CES Class room
Detailed Course Page: http://ces.iisc.ac.in/new/?q=courses#C2

Announcements
First Meeting: Monday 7th August, 2017 at 2.30 pm, CES Class Room, Third Floor, New Biological Sciences Building

Brief description of the course
The sensory biology of the interaction between plants, their animal mutualists and parasites: vision, chemoreception, olfaction and multimodal signalling; energetics of plant-animal interactions; nectar, floral and vegetative scents and pollen constituents; stable isotopes in the study of plant-animal interactions; mate choice in plants; evolution of floral and fruit traits; phenotypic plasticity and inducible defences in plants; behavioural and physiological processes in generalist and specialist herbivores, pollinators and seed dispersers; co-evolutionary dynamics of symbiosis, mutualisms and arms races

Prerequisites
None

Syllabus
The sensory biology of the interaction between plants, their animal mutualists and parasites: vision, chemoreception, olfaction and multimodal signalling; energetics of plant-animal interactions; nectar, floral and vegetative scents and pollen constituents; stable isotopes in the study of plant-animal interactions; mate
choice in plants; evolution of floral and fruit traits; phenotypic plasticity and inducible defences in plants; 
behavioural and physiological processes in generalist and specialist herbivores, pollinators and seed 
dispersers; co-evolutionary dynamics of symbiosis, mutualisms and arms races

**Course outcomes**
"Students are exposed to the state-of-the-art in concepts, methodologies, and controversies in the subject 
matter of the course. They will learn how to think critically about the subject and to critique published 
material as well as online material available on the internet."

**Grading policy**
50% Project

50% Final Examination

**Assignments**
Concept Based

**Resources**
Chittka, L. and Thompson, J. D. (Eds.), Cognitive Ecology of Pollination- Animal Behaviour and Floral 

