

## Biomimetics and Biological Soft Materials

### Tentative Schedule (Day wise):

Day	Teaching Slot 9:30-11:00	Tea Break 15 min.	Teaching Slot 11:15-12:45	Lunch 12:45-2:00	Teaching Slot 2:00-3:30	Tea Break 15 min.	Teaching Slot 3:45-5:15
Day 1 27 June 2018 (Wednesday)	Lecture 1: Introduction to polymers <b>Dr. Satyavrata Samavedi</b>		Lecture 2: Soft matter solutions <b>Dr. Balaji Iyer</b>		Lecture 3: Natural polymers and hydrogels <b>Dr. Satyavrata Samavedi</b>		Lecture 4: Elastic soft matter <b>Dr. Balaji Iyer</b>
Day 2	Lecture 5: Biomimetics and self- assembly <b>Dr. Balaji Iyer</b>		Lecture 6: Biological membranes <b>Dr. Satyavrata Samavedi</b>		Lab Session 1: Hands-on training with biomaterials <b>Dr. Satyavrata Samavedi</b>		Tutorial 1: Introduction to Simulations <b>Dr. Balaji Iyer</b>
Day 3	Lecture 7: Surface effects <b>Dr. Balaji Iyer</b>		Lecture 8: Proteins: structure, hierarchy, folding and function <b>Dr. Satyavrata Samavedi</b>		Lab session 2: Hands-on training with biomaterials (contd.) <b>Dr. Satyavrata Samavedi</b>		Tutorial 2: Simulations in Biological Soft Matter <b>Dr. Balaji Iyer</b>
Day 4 30 June 2018 (Saturday)	Lecture 9: Biological transport <b>Dr. Lopamudra Giri</b>		Lecture 10: Ligand- receptor interactions <b>Dr. Lopamudra Giri</b>		Case study 1: Applied biomaterials <b>Dr. Satyavrata Samavedi</b>		Case study 2: Biomimetic simulations <b>Dr. Balaji Iyer</b>