

Schedule for GIAN Course on “The Standard Model : from symmetry principles to experimental tests” by Prof. Yosef (Yossi) Nir at the School of Physical Sciences, Jawaharlal Nehru University during 24 - 28 February 2025

Date	Session (hrs)	Lecture
24 February 2025	10:00 - 11:30	Lecture 1: Lagrangian and symmetries
	11:30 - 12:00	Tea
	12:00 - 15:00	Lunch break
	15:00 - 16:30	Lecture 2 : Abelian symmetries and Quantum Electrodynamics (QED)
	16:30 - 17:00	Tea
25 February 2025	10:00 - 11:30	Lecture 3 : Non-Abelian symmetries and Quantum Chromodynamics (QCD)
	11:30 - 12:00	Tea
	12:00 - 15:00	Lunch break
	15:00 - 16:30	Lecture 4 : Spontaneous symmetry breaking and the leptonic Standard Model
	16:30 - 17:00	Tea
26 February 2025	10:00 - 11:30	Lecture 5 : The Standard Model
	11:30 - 12:00	Tea
	12:00 - 15:00	Lunch break
	15:00 - 16:30	Lecture 6 : Beyond the Standard Model
	16:30 - 17:00	Tea
27 February 2025	10:00 - 11:30	Lecture 7 : Higgs decays
	11:30 - 12:00	Tea
	12:00 - 15:00	Lunch break
	15:00 - 16:30	Lecture 8 : Flavor changing neutral currents
	16:30 - 17:00	Tea
28 February 2025	10:00 - 11:00	Lecture 9 : Neutrino masses and mixing
	11:00 - 11:30	Tea
	11:30 - 12:30	Lecture 10 : Particle cosmology