

Physical Cosmology 2025

Midsem [QP](#) [ANS](#)

No.	Date	Topic	Link
1	02/01/2025	What is Cosmology? Solar System, Galaxies, Dark Matter	PPT
2.	03/01/2025	Continued	
3.	08/01/2025	The expanding Universe Distance Ladder, Hubble's Law, Cosmological Principle	PPT
4.	09/01/2025	Dynamics of the Expanding Universe Dust Models	Notes Notes
5.	10/01/2025	Continued Einstein de Sitter Model, Pressure	Notes Notes
6.	15/01/2025	Continued Different components, LCDM	Notes
7.	16/01/2025	...	
7.	22/01/2025	Dynamics continued	
7.	23/01/2025	FRW Line element	Notes
8.	29/01/2025	Light propagation Redshift, Comoving and Angular diameter distance	Notes
9.	30/01/2025	Continued	
9.	31/01/2025	Test Luminosity Distance	Notes Test

11.	05/01/2025	Distance Angular diameter Model predictions,	Slides
12.	06/01/2025	Distances Distance Ladder, H0	Slides
11.		Distance Model predictions, Sne 1a	Reference Slides
12.		Dark Energy	
13.		CMB	Slides
		Power Spectrum Planck 2018	Slides Paper
		Cosmological Nucleosynthesis	Slides
	13/02/2025	CMB - T_Freeze,	
	19/03/2025	Saha Ionization Equation	
	20/03/2025	Jeans Instability analysis	
	21/03/2025	Jeans Instability continued	
	26/03/2025	Cosmological Perturbations 1 SERC School Notes	Notes

		LSS	Slides
	02/04/2025	LSS-Statistics	Notes
	03/04/2025	LSS Statistics	
	04/04/2025	Hierarchical Clustering	Notes