The Universe of Galaxies 2005

Jan 25 Tue	**=10:00-11:45 room FL74** [=1st lecture=] Basic concepts in physics and astrophysics relevant to this course. Measuring distances in our Galaxy.
Jan 27 Thu	**=13:15-15:00 room FL74** [=2nd lecture=] Remainder of basic facts about stellar structure and evolution. General view of our Galaxy.
Feb 01 Tue	**=10:00-11:45 room FL74** [=3rd lecture=] Understanding distribution of matter and rotation in our Galaxy. Matter distribution in our Galaxy: dark matter, spiral structure.
Feb 03 Thu	**=13:15-15:00 room FL74** [=4th lecture=] Morphological and physical properties of normal galaxies. How "normal" are such galaxies?
Feb 08 Tue	**=10:00-11:45 room FL74** [=5th lecture=] Fundamental concepts relevant to astrophysics of black holes. Circular motion around black holes. Efficiency of accretion. Eddington luminosity.
Feb 10 Thu	**=13:15-15:00 room FL74** [=6th lecture=] Basic observational facts about Quasars and other active galactic nuclei. Jets, superluminal motion.
Feb 15 Tue	**=10:00-11:45 room FL74** [=7th lecture=] Accretion disks around supermassive black holes.
Feb 17 Thu	**=13:15-15:00 room FL74** [=8th lecture=] Observational cosmology: redshift - magnitude and redshift - angular size relations. Microwave background radiation.
Feb 22 Tue	**=10:00-11:45 room FL74** [=9th lecture=] Cosmological models. Critical density.
Feb 24 Thu	**=13:15-15:00 room FL74** [=10th lecture=] Dark matter. Dark energy.
Mar 01 Tue	**=NO LECTURE TODAY** [=due to MTS days=]
Mar 03 Thu	**=13:15-15:00 room FL74** [=11th lecture=] The Big Bang and the history of the Universe.
Mar 08 Tue	**=10:00-11:45 room FL74** [=12th lecture=] Problems with the Big Bang cosmology. Inflation.
Mar 10 Thu	**=13:15-15:00 room FL74** [=13th lecture=] Formation of structures in the Universe.