

<b>Module:</b>	<b>Elective Advanced Lectures: Observational Astronomy</b>
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<b>Module No.:</b> astro840
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<b>Course:</b>	 <b>X-Ray Astronomy</b>
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<b>Course No.:</b> astro8402
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Category	Type	Language	Teaching hours	CP	Semester
Elective	Lecture with exercises	English	2+1	4	ST

<b>Requirements for Participation:</b>
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<b>Preparation:</b>
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Introductory astronomy lectures
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<b>Form of Testing and Examination:</b>
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Written or oral examination, successful exercise work
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<b>Length of Course:</b>
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1 semester
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**Aims of the Course:**

The student shall be familiarized with X-ray observations as a powerful tool to study almost all astrophysical objects in ways not possible in other wavebands.

**Contents of the Course:**

History, space-based instruments, radiation processes, solar system objects, isolated compact objects, binaries with compact objects, supernova remnants, interstellar medium, Galactic center, normal galaxies, galaxy clusters, superclusters, intergalactic medium, active galactic nuclei.

**Recommended Literature:**

Lecture notes will be provided