

# IIA Online Summer School: 7<sup>th</sup> - 16<sup>th</sup> June 2024

## Wonders of Astrophysics

Day 1: 7<sup>th</sup> June 2024

<i>Time</i>	<i>Lecture/demo</i>	<i>Topic</i>	<i>Lecturer/Tutor</i>
10:00-10:15		Welcome Address	Dean, IIA
10:15-11:15	Lecture	Solar Physics	Jayant Joshi
11:15-11:45	Tea break		
11:45-12:45	Lecture	GR & Cosmology	Sanved Kolekar
12:45-14:45	Lunch Break		
14:45-15:45	Lecture	Solar Physics	Jayant Joshi
15:45-16:15	Tea Break		
16:15-17:15	Lecture	Introduction to observational astronomy	Sudhanshu Barway

*Day 2: 8<sup>th</sup> June 2024*

<i>Time</i>	<i>Lecture/demo</i>	<i>Topic</i>	<i>Lecturer/Tutor</i>
10:00-11:00	Lecture	Introduction to observational astronomy	Sudhanshu Barway
11:00-11:30	Tea break		
11:30-12:30	Lecture	Solar Physics	Jayant Joshi
12:30-14:30	Lunch Break		
14:30-15:30	Lecture	Solar Physics	Jayant Joshi
15:30-16:00	Tea Break		
16:00-17:00	Lecture	GR & Cosmology	Sanved Kolekar

*Day 3: 9<sup>th</sup> June 2024 -----> Sight-seeing*

Day 4: 10<sup>th</sup> June 2024

<i>Time</i>	<i>Lecture/demo</i>	<i>Topic</i>	<i>Lecturer/Tutor</i>
10:00-11:00	Lecture	Galaxy	Mousumi Das(online)
11:00-11:30	Tea break		
11:30-12:30	Lecture	Radio astronomy	K. Sasikumar Raja
12:30-14:30	Lunch Break		
14:30-15:30	Problem Solving		Assignments
15:30-16:00	Tea Break		
16:00-17:00	Lecture	KSO facilities	Rajalingam

Day 5: 11<sup>th</sup> June 2024

<i>Time</i>	<i>Lecture/demo</i>	<i>Topic</i>	<i>Lecturer/Tutor</i>
10:00-11:00	Lecture	AGN	C.S.Stalin
11:00-11:30	Tea break		
11:30-12:30	Lecture	Radio instrumentation	K. Sasikumar Raja
12:30-14:30	Lunch Break		
14:30-15:30	Lecture	AGN	C.S.Stalin
15:30-16:00	Tea Break		
16:00-17:00	Problem-solving session		Assignment

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*Day 6: 12<sup>th</sup> June 2024*

<i>Time</i>	<i>Lecture/demo</i>	<i>Topic</i>	<i>Lecturer/Tutor</i>
10:00-11:00	Lecture	AGN	C.S.Stalin
11:00-11:30	Tea break		
11:30-12:30	Assignment		Problem solving
12:30-14:30	Lunch Break		
14:30-16:30	Observatory tour	Different Telescopes	KSO tour

*Day 7: 13<sup>th</sup> June 2024*

<i>Time</i>	<i>Lecture/demo</i>	<i>Topic</i>	<i>Lecturer/Tutor</i>
10:00-11:00	Lecture	Stellar spectroscopy	Gajendra Pandey
11:00-11:30	Tea break		
11:30-12:30	Lecture	BH Accretion	Santanu Mondal
12:30-14:30	Lunch Break		
14:30-15:30	Lecture	Stellar spectroscopy	Gajendra Pandey
15:30-16:00	Tea Break		
16:00-17:00	Lecture	BH: outflows	Santanu Mondal

*Day 8: 14<sup>th</sup> June 2024*

<i>Time</i>	<i>Lecture/demo</i>	<i>Topic</i>	<i>Lecturer/Tutor</i>
10:00-11:00	<i>Lecture</i>	<i>ISM and galaxy formation</i>	<i>Ravi Joshi (online)</i>
<i>11:00-11:30</i>	<i>Tea break</i>		
11:30-12:30	<i>Lecture</i>	<i>ISM and galaxy formation</i>	<i>Ravi Joshi (online)</i>
<i>12:30-14:30</i>	<i>Lunch Break</i>		
14:30-15:30	<i>Lecture</i>	<i>Outreach program and observational astronomy</i>	<i>Chrisphin Karthick</i>
<i>15:30-16:00</i>	<i>Tea Break</i>		
16:00-17:00	Problem-solving		Assignment

*Day 9: 15<sup>th</sup> June 2024*

<i>Time</i>	<i>Lecture/demo</i>	<i>Topic</i>	<i>Lecturer/Tutor</i>
10:00-11:00	<i>Lecture</i>	<i>Helioseismology</i>	<i>S P Rajaguru</i>
11:00-11:30	Tea break		
11:30-12:30	<i>lecture</i>	<i>Astroseismology</i>	<i>S P Rajaguru</i>
12:30-14:30	Lunch Break		
14:30-16:30	<i>Problem Solving</i>		<i>Assignments</i>

*Day 10: 16<sup>th</sup> June 2024*

<i>Time</i>	<i>Lecture/demo</i>	<i>Topic</i>	<i>Lecturer/Tutor</i>
10:00-11:00	<i>Lecture</i>	<i>Exoplanet</i>	<i>Sujan Sengupta</i>
11:00-11:15	Tea break		
11:15-12:15	<i>Lecture</i>	<i>MHD</i>	<i>Sharanya Sur</i>
12:15 - 13:15	<i>Lecture</i>	<i>Exoplanet</i>	<i>Sujan Sengupta</i>
13:15-14:30	Lunch Break		
14:30-15:00	<i>Valedictory session</i>		<i>Director, IIA</i>