



# Physics by fiziks

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## Study Plan of Nuclear and Particle Physics for Pre-recorded Batches

(For NET-JRF, GATE, JEST, TIFR Aspirant and M.Sc Students)

Days	Enter Your Dates	Topics
Day: 1		Lecture 1: General Properties of Nuclei Part-1 Lecture 2: General Properties of Nuclei Part-2
Day: 2		Lecture 3: General properties of nuclei Part 3 Lecture 4: General Properties of Nuclei Part-4 <b>Solve Assignment No. 1: Basics Properties of Nuclei (Lect-1 to Lect-4)</b>
Day: 3		Lecture 5: Liquid Drop Model Part-1 Lecture 6: Liquid Drop Model Part-2
Day: 4		Lecture 7: Liquid Drop Model Part-3 Lecture 8: Shell Model Part-1 <b>Solve Assignment No. 2: Liquid Drop Model (Lect-5 to Lect-7)</b>
Day: 5		Lecture 9: Shell Model Part-2 Lecture 10: Collective Model Part-1 <b>Solve Assignment No. 3: Nuclear Shell Model (Lect-8 to Lect-9)</b>
Day: 6		<b>Class Test 1: Basic Properties of Nuclei (Lect-1 to Lect-4)</b>
Day: 7		<b>Class Test 2: Liquid Drop Model (Lect-5 to Lect-7)</b>
Day: 8		Lecture 11: Collective Model Part-2 Lecture 12: Collective Model Part-3
Day: 9		Lecture 13: Nuclear Force Part- 1 Lecture 14: Nuclear Force Part-2
Day: 10		Lecture 15: Nuclear Force Part-3 Lecture 16: Radioactivity Part-1 <b>Solve Assignment No. 3a: Collective Model &amp; Nuclear Forces (Lect-10 to Lect-15)</b>
Day: 11		Lecture 17: Radioactivity Part-1 Lecture 18: Radioactivity Part-2
Day: 12		Lecture 19: Radioactivity Part-3 Lecture 20: Alpha Decay Part-1 <b>Solve Assignment No. 4: Radioactivity (Lect-16 to Lect-19)</b>
Day: 13		<b>Class Test 3: Shell Model &amp; Collective Model (Lect-8 to Lect-12)</b>
Day: 14		<b>Class Test 4: Radioactivity Basic (Lect-13 to Lect-19)</b>
Day: 15		Lecture 21: Alpha Decay Part-2 Lecture 22: Beta Decay Part-1
Day: 16		Lecture 23: Beta Decay Part-2 Lecture 24: Gamma Decay Part-1
Day: 17		Lecture 25: Gamma Decay Part-2 Lecture 26: Nuclear Reactions Part-1 <b>Solve Assignment No. 4a: Alpha, Beta &amp; Gamma Decay (Lect-20 to Lect-25)</b>
Day: 18		Lecture 27: Nuclear Reactions Part-2 Lecture 28: Nuclear Reactions Part-3
Day: 19		Lecture 29: Nuclear Fission and Fusion Part-1 Lecture 30: Nuclear Fission and Fusion Part-2 <b>Solve Assignment No. 5: Nuclear Reaction &amp; Fission and Fusion (Lect-26 to Lect-30)</b>
Day: 20		<b>Class Test 5: Alpha, Beta &amp; Gamma Decay (Lect-20 to Lect-25)</b>
Day: 21		<b>Class Test 6: Nuclear Reaction (Lect-26 to Lect-30)</b>
Day: 22		Lecture 31: Particle Physics Part-1 Lecture 32: Particle Physics Part-2
Day: 23		Lecture 33: Particle Physics Part-3 Lecture 34: Particle Physics Part-4 <b>Solve Assignment No. 6: Particle Physics (Lec-31 to Lect-34)</b>
Day: 24		<b>Class Test 7: Particle Physics (Lect-31 to Lect-34)</b>