

Department of Physics

E-content (B.Sc. III)

Subject: Nuclear and Particle Physics

Teacher Name: Dr. Runjun Sarma

Lectures:

1. Lecture on “Types of Interaction”
<https://drive.google.com/file/d/175Fw1CJyDGbrZrXCTuI3j92F0ZNPipLt/view?usp=sharing>
2. Lecture on “Nature of Nuclear Force”
<https://drive.google.com/file/d/1B0pn4OiRdrGnL6KBEH5KaIU64Kd-uA6U/view?usp=sharing>
3. Lecture on “Nuclear Electric Quadrupole moment”
<https://drive.google.com/file/d/1Bf7bEfgBCf7V9YgAIQ4I2M8USTzOTdb/view?usp=sharing>
4. Lecture on “Classification of Elementary Particles”
<https://drive.google.com/file/d/1L5mowYfPQ30JexbS13GInW65YPDEYH68/view?usp=sharing>
5. Lecture on “Quantum No. Associated With Elementary Particles”
<https://drive.google.com/file/d/1UjSm9g63HKzX9DonAd972BwvydQfyYk/view?usp=sharing>
6. Lecture on “Conservation Laws”
<https://drive.google.com/file/d/1M6sQkxQAMWwUg1FTX55OtEJqOwyQt6mU/view?usp=sharing>
7. Lecture on “Basics of Quarks model”
<https://drive.google.com/file/d/1JxTvU9VmEMi7zIHpSHjcQmYJvWrU7gAe/view?usp=sharing>

Questions

1. Multiple Choice Questions
<https://forms.gle/hzcG8nRn8L33Cg2X7>
2. Long Answer Type Questions
[Questions on Types of Interaction and elementary particles - Google Docs](#)

Suggested books

1. Nuclear Physics by D.C. Tayal
2. Nuclear Physics: Experimental and Theoretical by H S Hans
3. Nuclear Physics by Dr. S. N. Ghoshal

