

12.Nuclear Engineering Lab Equipment

| SR No | DESCRIPTION OF EQUIPMENT (TECHNICAL DETAILS) |
|-------|--|
| 1 | 2 |
| 1 | Absorption of Gamma Radiation Radioactive preparations, set of 3 Absorbers and targets, set |
| 2 | Basic Electrical Electronic Circuit Lab KL-210 Specifications; Main Unit (KL-22001) 1.DC Power Supply (1)Fixed DC power supply a. Voltage : $\pm 5V \pm 12V$ b. With output overload protection (2) Dual DC power supply a. Voltage range : $\pm 3V- \pm 18V$, continuously adjustable b. With output overload protection |

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| 1 | 2 |
| 3 | <p>Alpha Spectroscopy</p> <p>Alpha spectroscopy chamber(1no), Semiconductor detector (1no),Am-241 preparation,open3.7 kBq(1no), Ra 226 preparation,5 KBq(1no) , Sensor- CASSY2(1no),MCA box(1no) ,CASSY Lab 2 (1no), Discriminator preamplifier (1no), Multi-core cable6 -pole,1.5 m(1no) BNC cable,1m, 0.25m(1no), Vacuun pump S 1.5(1no),T-Piece DN 16KF (1no),Centering ring(adapter)KF,2 pieces (1no),Air inlet valve with DN 10KF (1no),Centering ring DN 16 KF, set 2 (1no),Clamping ring 10/16KF(1no),Small FlangeDN 16 With Hose (2nos),Rubber Tubing (vacuum),8 x 5 mm, 1m (1no) PC with Windows XP/Vista/7(1no)</p> |

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|-------|--|
| 1 | 2 |
| 4 | <p>Rotary Viscometer</p> <p>Germany /Speed selected:RPM</p> <p>Spindle used: Spindle Reference</p> <p>Dynamic Viscosity:mPas or CP</p> <p>Full Scale percentage:% Sample temperature:'C or 'F Auto range to display viscosity limits: mPas or CP Two difference version with PC based Software"ViscosoftBasic"</p> <p>BOE 8803003 BOECO BRV Rotary viscometer R version for medium to high Viscosity 20–13,000,000 mPas in 114 ranges 19 speeds with 6 spindkes,100–240V,50–60Hz</p> |
| 5 | <p>Digital Training System,ETS-9000,with ETS-33051, ETS-33052,KS-350, NGT-601</p> |
| 6 | <p>Radioactive Standard source (Gamma Source) Ba-133</p> <p>Activity 10⁷Ci, Half-life 10.7 years</p> |
| 7 | <p>Radioactive Standard source (Gamma Source) Cs-137</p> <p>Activity 10⁷Ci, Half-life 30.1 years</p> |
| 8 | <p>Radioactive Standard source (Gamma Source) Co-60 Activity 1⁷Ci, Half-life 5.27 years</p> |
| 9 | <p>Lead Shielded Disc Source Container, Thickness 0,5", Outside dimension 3.6"x2.25" Weight 4.6lbs</p> |