



- (Affiliated to Rajasthan Technical University, Kota)
- SP-40, RIICO Industrial Area, RIICO-Kukas, Jaipur-302028
- Ph. 0141-2820731/32/33

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7.1.2 – Additional Information

1. Arya Notes provide uninterrupted study material access to all students

UNIT – I BLOWN UP	
RTU SYLLABUS	BLOWN UP TOPICS
Concept of stress and strain in three dimensions and generalized Hooke's law; Young's modulus; Tension test of mild steel and other materials; true and apparent stress, ultimate strength, yield stress and permissible stress; Stresses in prismatic & non prismatic members and in composite members; Thermal stresses; Shear stress, Shear strain, Modulus of rigidity, Complementary shear stress; Poisson's ratio, Volumetric strain, Bulk modulus, relation between elastic constants; Stresses in composite members, Compatibility condition	<u>1.0 Important Definitions</u> <u>1.1 Stress</u> 1.1.1 Types of Direct Stress 1.1.2 Tensile stress 1.1.3 Compressive stress 1.1.4 Shear stress <u>1.2 Strain</u> 1.3 Tension Test Of Mild Steel 1.4 Elasticity & Elastic Limit 1.5 Hooke's Law & Elastic Moduli 1.6 Constitutive Relationships Between Stress & Strain 1.7 Analysis of Bars of Varying Cross Section 1.8 Analysis of Uniformly Tapering Circular Rod 1.9 Analysis Of Uniformly Tapering Rectangular Bar 1.10 Analysis of Bars of Composite Sections 1.11 Elongation Of The Bar Due To Its Own Weight 1.12 Thermal Stress 1.13 Elastic Constant 1.14 Relationship between E, G and K



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2. Different types of Robots and Arduino prepared in our Robotic Labs by our Students



HUMANOID ROBOT



HEXAPOD ROBOT



ROBOTIC ARM



HUMANOID SERVICE ROBOT



ROBOTICS PALM



BIONIC HAND



INDUSTRIAL ROBOTIC ARM



NITRO CARS



ROBOTICS HEAD WITH AI



BIPED ROBOT METAL



BIPED ROBOT INTERACTIVE



BIPED ROBOT SELF BALANCING



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