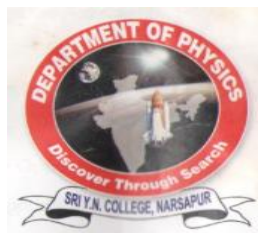




STUDENT BRIDGE COURSE



2024-2025

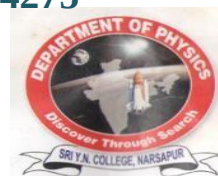
DEPARTMENT OF PHYSICS

**Sri Y.N.College (A)
Narsapur**

SRI Y.N. COLLEGE (AUTONOMOUS), NARSAPUR-534275



Affiliated to Adikavi Nannaya University
Thrice Accredited by NAAC with 'A' Grade
Recognized by UGC as "College with potential for Excellence"



DEPARTMENT OF PHYSICS

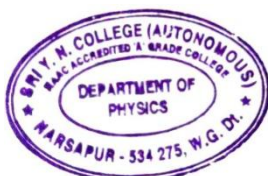
BRIDGE COURSE

A bridge course for newly admitted students is conducted every year before the commencement of the first semester classes. The main objective of the course is to bridge the gap between subjects studied at Intermediate level and subjects they would be studying in Under Graduation.

The Bridge course is a special course which helps to face competitive entrance examinations. Reputed colleges prepare the tough entrance papers so that they can get extraordinary students.

A student who wants to change majors may take a bridge course to help them make the transition to their new degree program. The Bridge Course also focus on the pupil with different learning abilities, academic standards and performances.

Students with Science, Mathematics & Vocational Courses background are about Eligible to Join this Subject of PHYSICS in the combination groups of MPC(TM & EM), MPCs & MPE). We encourage and appreciate the students to discuss for joining the course as it has got its importance for having future prospects particularly for preparing the ICET, AUCET entrances etc., Competitive Examinations & Job Opportunities. So as to enable them to appear for Group I, II and III Examinations and about to get the Leadership Qualities. We give proper Coaching to bridge the gap in learning the new subject and route out the subject. We about to tell them that the college has good Infrastructure, Good Faculty and experienced Lecturers throughout the college hours and teaching is done through ICT enabled Teaching, Power Point, OHP and other Teaching aids like audio visuals. Our College provides certificate courses for Benefit of the Students. Our College provides certificate courses for Benefit of the Students. Especially, our department provides one Practical Oriented certificate course in Refrigeration & Air conditioning. We encourage the students for Higher studies that is M.Sc Physics, M.Sc Organic Chemistry, MBA, MCA, B.Ed etc. There are many Job opportunities in the group of Science Subjects.





DEPARTMENT OF PHYSICS

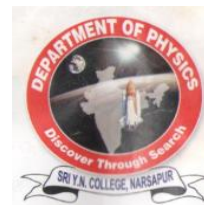
SRI Y. N. COLLEGE (AUTONOMOUS)

(Affiliated to Adikavi Nannaya University)

Accredited by NAAC with 'A' grade with a CGPA of 3.40

Recognized by UGC as 'College with Potential for Excellence'

NARSAPUR-534275, W.G. Dist. AP



For 2024-2025 Admitted Batch [2020-21 Admitted Batch]

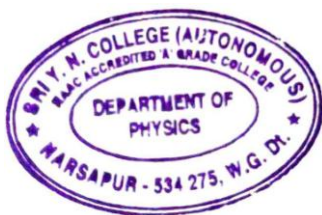
PHYSICS BRIDGE COURSE SYLLABUS

UNIT I: MECHANICS OF PARTICLES AND WAVE OPTICS

Review of Newton's Laws of Motion, Definition of rigid body, rotational kinematic relations, angular momentum. Elastic constants of isotropic solids and their relation. Reflection of Light by Spherical Mirrors, Refraction, Total Internal Reflection, Introduction, Huygens Principle, Refraction and reflection of plane waves using Huygens Principle

UNIT II: ELECTRIC CHARGES AND FIELDS AND ATOMIC PHYSICS

Electric Charges, Conductors and Insulators, Basic Properties of Electric Charge, Coulomb's Law, Equipotential Surfaces, Electric Current, Electric Currents in Conductors, Ohm's law, Atomic Masses and Composition of Nucleus, Size of the Nucleus, Mass-Energy and Nuclear Binding Energy, Bohr Theory of Hydrogen Atom, Photoelectric Effect.



HEAD OF THE DEPARTMENT