

**Changes in the First Year syllabi of Three Year Degree Course  
Subject: Physics from session 2010-11.**

**I year T.D.C. Physics session 2010-11**

**Paper-I: Mechanics of Particles, Rigid Bodies and Continuous Media**

Changes from Syllabus of 2009-10

No change in syllabus

Change in text and reference books

**Text**

1. Mechanics- J.C.Upadhyaya, Ram Prasad & Sons
2. Mechanics- D.C.Mathur S.Chand & Co.
3. Mechanics of particles, Rigid Bodies and Continuous Media (In Hindi) by Kalra, Bhandari and Kakani

**Reference Books:**

1. E.M. Purcell, Editor, Berkeley Physics Course, Vol. 1, Mechanics, McGraw Hill.
2. R.P. Feynmann, R.B. Lighton, M. Sands, The Feynmann Lectures in Physics, Vol. 1. B.I. publications, Bombay, Delhi, Calcutta, Madras.
3. Mechanics of particles, Rigid Bodies and Continuous Media (In Hindi) by Kalra, Bhandari and Kakani

**Paper-II: Oscillations, waves and Accoustics**

Following topics deleted from syllabus of 2009-10

Unit-II: Non-periodic disturbance; representation by Fourier Integral, Fourier transform, case of wave train of finite length, constancy uncertainty product qualitative description only

Unit-III: acoustic and optical modes  
Their measurements

Unit-V: Sabines formula

### Text book

1. Waves & Oscillations, Satya Prakash, Pragati Prakashan
2. Oscillations, Waves and Acoustics (In Hindi) by Kakani, Bhandari & Kalra

### Reference Books:

1. Waves and Oscillations, Berkley Physics Course Vol. III
2. Vibrations and waves, I.G. Main (Cambridge University Press)
3. The Physics of Vibrations and Waves, H.J. Pain, McMillan (1975).

## Paper-III: Electricity and Magnetism

Following changes in the Text and Reference books

### Text

1. A.S. Mahajan and A.A. Rangawala, Electricity and Magnetism, Tata McGraw Hill.
2. Electricity and Magnetism, P. Chakrabarty and K.C. Gupta, New Age International
3. Electricity and Magnetism (In Hindi) by Bhandari, Kalra and Kakani

### Reference Books:

1. E.M. Purcell, Ed. Berkely Physics Course, Vol. 1, Electricity and Magnetism McGraw Hill.
2. D. Halliday and R. Resnick, Physics, vol. 2, Wiley Eastern, New Delhi

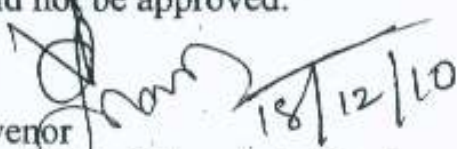
## Paper-IV: PHYSICS PRACTICALS

An important note has been added in the Physical Practical Syllabus of 2010-11 as follows:

### Important Note:

(i) Before starting experiments, students should be taught errors in measurement, propagation of errors, importance of significant figures, identifying variables in experiment, importance of graphical presentation of data. Results without quoting errors should not be approved.

Convenor  
Committee of Courses in Physics

  
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