

## Malla Reddy Engineering College (Autonomous)

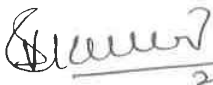
Maisammaguda, Dhulapally, Secunderabad - 5001 00


29 June 2018


### Minutes of Board of Studies for Physics meeting - MR18 regulations

After careful and detailed discussions the Board approved the following resolutions:

1. Applied Physics is recommended for EEE, ECE, CSE and IT students in the first semester, with 3 lecture hours and 1 tutorial hour per week.
2. The following changes are recommended in this paper
  - Schrodinger's time dependent wave equation is removed in Module - I.
  - In Module - II i.e., Band theory of solids, the topic Bloch theorem for particle in a periodic potential is modified as '**Qualitative treatment of Bloch theorem for particle in a periodic potential**'. Similarly Kronig - Penney model topic is approved as Qualitative treatment of Kronig - Penney model Type
  - Two chapters in Module III are clubbed and it is renamed as **Semiconductor Physics**. '**Equation of continuity**' is appended. Also the topic PN Junction is modified as '**PN Junction : Formation and V-I Characteristics**'. **LED - Construction and working principle**, '**Solar cell - Construction and I - V Characteristics**' are added to this module.
  - '**Einstein coefficients**' topic is recommended in Module - IV in LASER chapter. Ruby LASER and He - Ne LASER are replaced by '**Semiconductor LASER**'.
3. Applied Physics lab is recommended for EEE, ECE , CSE and IT. Ten experiments are prescribed.
4. Engineering Physics is recommended for CE, ME and Min. Engineering in the second semester with 3 lecture hours and 1 tutorial hour per week!
5. The following changes are recommended in this paper.
  - In Module - II, Wave optics '**Interference due to reflected light in thin films**' is added. Interferometer topics are removed.
  - Module - III is replaced by Dielectric properties of materials.
6. Engineering Physics lab is recommended for CE, ME, Min. Engineering. Ten experiments are prescribed.

  
29/6/18  
University nominee  
(Dr. K. Vijaya Kumar)

  
Subject Expert -1  
(Prof. S. Narender Reddy)

  
Subject Expert-2  
(Dr. G. Venkataiah)

  
Industry Expert  
(Dr. P. S. R. Prasad)

  
Member  
(Dr. T. Vijay Kumar)

  
Member  
(V. K. Vamsi Krishna)

Member  
(B. V. Ramana Reddy)

Alumni  
(P.S. Indrani)

Chairman, BoS - Physics  
(Dr. V. Dhanunjana Chari)

Principal, MREC (A)  
(Dr. S. Sudhakara Reddy)