

PRAGATI ENGINEERING COLLEGE

(Autonomous)

1-378, ADB Road, Surampalem - \$33,437, Near Peddapuram, E.G. Dist., (A.P.)

(Approved by AICTE, New Delhil & Permanently Affiliated to JNTUK& Accredited by NAAC 'A' Grade)
DEPARTMENT OF PHYSICS

PEC/ DEPARTMENTOF PHYSICS/BOARD OF STUDIES MEETING-1/2016-2017

Date: 10-7-2016

BOARD OF STUDIES - MINUTES OF MEETING

Minutes of the meeting of the Board of Studies in Physics held on 9th & 10th July 2016 in the Physics laboratory.

Members Present:

Name of the Faculty	Role	Signature
	Chairman	P. Rayslexhore
Dr. G.Padmaja Rani,	Affiliating University Nominated Member	Many 97
Prof.K.Chandra Mouli, Professor, Engineering Physics, UCE, Andhra University	External Expert Member	
Dr.M.Ravi Kumar, Assoc Prof. of Engg Physics, GITAM Institute of Technology, GITAM University	External Expert Member	Thlung
Internal Faculty Rep	resentation	
Mr G Ravi Prasad	Member	do
	Member	G. Brailing
Mr.N.Ramakrishna	Member	Langton
	Professor & HOD UCEK, INTUK, Kakinada Prof.K.Chandra Mouli, Professor, Engineering Physics, UCE, Andhra University Dr.M.Ravi Kumar, Assoc Prof. of Engg Physics, GITAM Institute of Technology, GITAM University Internal Faculty Rep Mr G.Ravi Prasad Mr.G.Bhakara Rao	Sri.P.Raj Shekhar Phaneendra Dr. G.Padmaja Rani, Professor & HOD UCEK, INTUK, Kakinada Prof.K.Chandra Mouli, Professor, Engineering Physics, UCE, Andhra University Dr.M.Ravi Kumar, Assoc Prof. of Engg Physics, GITAM Institute of Technology, GITAM University Internal Faculty Representation Mr G.Ravi Prasad Mr.G.Bhakara Rao Member Chairman Affiliating University Nominated Member External Expert Member External Expert Member Internal Faculty Representation Member Member

AGENDA:

- 1. Welcome Address by Chairman-Board of Studies of the Department
- 2. Discussion on proposed course structure and formulation of syllabus.
- 3. Discussion on proposed B.Tech First Year Applied Physics & Engineering Physics both Theory & laboratory course syllabus and ratification of the same.
- 4. Ratification of the proposed modal papers for internal and external examinations of theory & laboratory courses.
- 5. Recognition of reputed institutions for selecting the Examiners for semester end paper setting & valuation of papers and also for laboratory practical external examiners.
- 6. Finalization of text books and reference books.
- 7. Any other item.

Suggestions offered in syllabus:

Applied Physics:

To add introduction in each chapter.

To specify thin films concept as film of uniform thickness and Wedge shaped film in unit-L.

To add classifications of fibers in unit-IV Fiber optics).

To incorporate Density of states in unit-V(Free electron theory).

To incorporate Assumptions of Classical free electron theory in unit-V(Free electron theory).

Engineering Physics:

To add introduction in each chapter.

To specify thin films concept as film of uniform thickness and Wedge shaped film in unit-I.

To delete holography topic in unit-III (polarization).

To add detection of ultrasonic's in unit-IV (Ultrasonics).

To delete SONAR and Endoscopy topics in unit-IV(Ultrasonics).

To specify condition for good hall, defects & remedies, types of production -Piezo electric effect, Detection-Piezo electric method in unit-IV(Ultrasonics).

To add Absorption coefficient and its Measurements in Unit-IV (Acoustics).

To add Bragg's X-ray spectrometer in unit-V (Crystallography & X-ray diffraction).

To remove basis of magnetization & Origin of Magnetization and add introduction in unit-VI(Magnetism)..

To add Diamagnetism& Para magnetism in unit-VI(Magnetism).

To specify soft& Hard Magnetic materials unit-VI(Magnetism).

Suggestions offered in Weight age to Virtual lab-assignments:

To allot 5 marks for Virtual lab assignment, 5 marks for unit wise assignments in each mid, instead of giving 10 marks for assignments.

To delete record marks and replace it by precautions in External lab examinations.

Suggestions for text book /References:

To introduce Engineering physics -Resnick&Halliday&Krane, Volume I&II, John Wiley& Sons.

APPLIED PHYSICS) To add introduction in each chiften To add classifications of fibers in unit IT (Fiber ofties) ro incorporate "Density of states" in unit?

To incorporate Assumptions of classical tree electron

theory in unit (V) - Free electron theory. To specify thin film as folding equal thickness a wedge shaped film in unit I

Engineering Physics

To add introduction in each crafter. To delete holography III of ultregories in unit IV

To add Absorption coefficient & its Messurements To remove Basis of magneton & origin of magneton & add introduction in unit VI

To add Dianognetume Povernognetis in unit V

To add Brogg's n-vay spectrometer in unit V

To specify thin Jilms as film of equal thickness e

widge shaked film in unit I

To specify condition for good half defects & remedies.

Type of Production - Piezo electric effect, detection
Presolution merhod monets

To specify soft & Hord monets

Suggestions offered in weightage to vistual lab - Assignment.

To allot 5 minks for vistual Lab Assignment.

For each MID out of 10' marks for Assignment.

Remaining 5 morks for submitting unit wife

Assignment To detele Record mark submission & sublace it by precaution in External Lat examination. Auggestions for text book References.
To introduce "Engineering Physics"-Resnik, Halliday.
for reference book P. Raystelchoz , Medway to Menne P. Delle van. Larotono.