



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING, (AUTONOMOUS)

L.B.Reddy Nagar, Mylavaram – 521 230. Andhra Pradesh, INDIA

Approved by AICTE New Delhi

Accredited by NBA, NAAC 'A' Grade, New Delhi & Certified by ISO 9001:2008

FRESHMAN ENGINEERING DEPARTMENT

Attainment of Course outcomes, Program Outcomes

Faculty Name	: Dr. T. Vasantha Rao, Dr. S. Yusub, Mrs.N. Aruna	Designation	: Professor, Professor, Asst. Prof
Course Name	: Applied Physics	Academic Year	: 2017-18
Course Code	: 17FE12	Semester	: II- Semester
Degree & Admitted Year	: B.Tech & 2017	Programme	: ECE

COURSE OUTCOMES:

After the completion of the course, the student should be able to,

17FE12.CO1	:	Define the nature of Interference and Diffraction.
17FE12.CO2	:	Describe the polarization and LASER, types of lasers and their applications.
17FE12.CO3	:	Estimate the electrical conductivity in metals.
17FE12.CO4	:	Design the circuits of semiconductor diodes, LED, Photodiode, Solar cell.
17FE12.CO5	:	Classify the different types of polarisations in dielectric materials.

Note: The evaluation of attainment of COs done in **MS - Excel** sheet for Cumulative Internal Examinations and percentage of Attainment of each CO are shown in below table.

1. Attainment of Cos through Mid Examinations.

Course Outcomes	Target(%)	No of Students		% of Attained
		Attempted	Attained	
CO1	65	62	43	69.35
CO2	65	101	84	83.17
CO3	65	78	69	88.46
CO4	65	77	63	81.82
CO5	65	72	56	77.78

2. Attainment of Cos through Assignment Marks

Course Outcomes	Target(%)	No of Students		% of Attained
		Attempted	Attained	
CO1	65	165	155	93.94

CO2	65	165	151	91.52
CO3	65	165	160	96.97
CO4	65	165	160	96.97
CO5	65	165	160	96.97

3. Attainment of Cos through Online Quiz Marks

Course Outcomes	Target(%)	No of Students		% of Attained
		Attempted	Attained	
CO1	65	165	121	73.33
CO2	65	165	121	73.33
CO3	65	164	99	60.37
CO4	65	164	99	60.37
CO5	65	164	99	60.37

Note: The evaluation of attainment of COs done in **MS - Excel** sheet for End Exams and percentage of Attainment of each COS are shown in below table.

Course Outcomes	Target(%)	No of Students		% of Attained
		Attempted	Attained	
CO1	65	88	69	78.4
CO2	65	89	68	76.4
CO3	65	91	72	79.1
CO4	65	92	75	81.5
CO5	65	62	43	69.4

Note: The final attainment of COs are determined according to the given weightage.

Weightage for COs : 60% of Semester End Examinations + 25% of Mid Examinations +10% of Online Quiz Examination + 5% of Assignments

COs	Mid Examination	Online Quiz	Assignments	Semester End Examination	ACTUAL CO ATTAINMENT
CO1	69.4	73.3	93.9	78.4	76.41

ACTION TAKEN REPORT

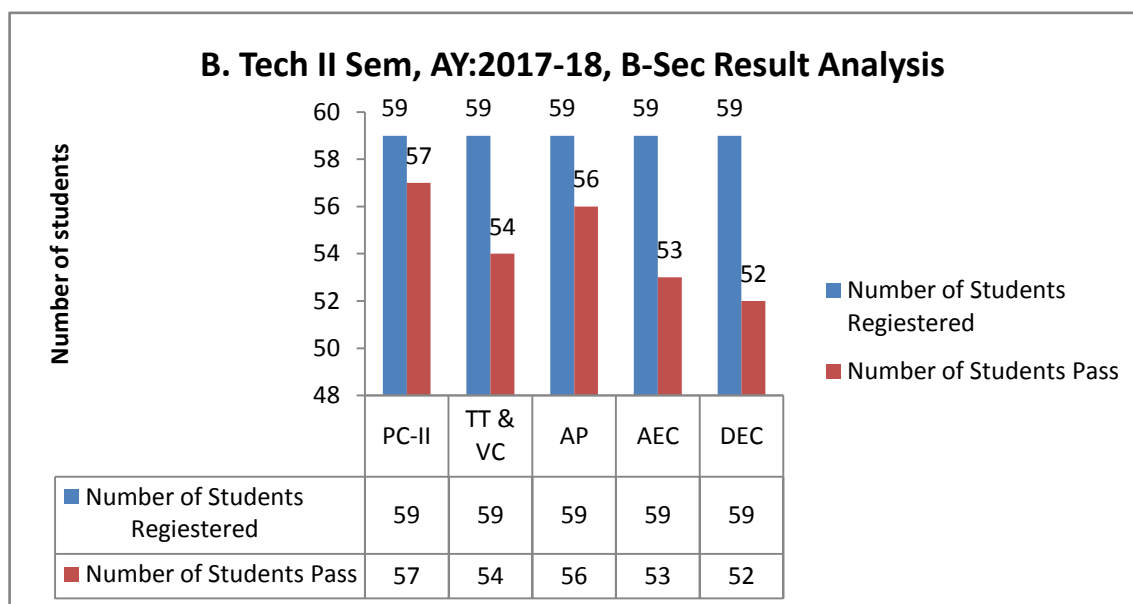


Fig:1 Result Analysis of B.Tech-I-Sem Subject wise

Table 1. Attainments of CO-Applied Physics

CO No.	Statement of CO	Target	Attained
CO1	Define the nature of Interference and Diffraction.	65	76.41
CO2	Describe the Polarization and Laser, Types of Lasers and their applications.	65	78.54
CO3	Estimate the Electrical conductivity in metals.	65	80.47
CO4	Design the Circuits of Semiconductor Diodes, LED, Photodiode, Solar Cell.	65	80.25
Co5	Classify the different types of Polarizations in Dielectric materials.	65	71.94

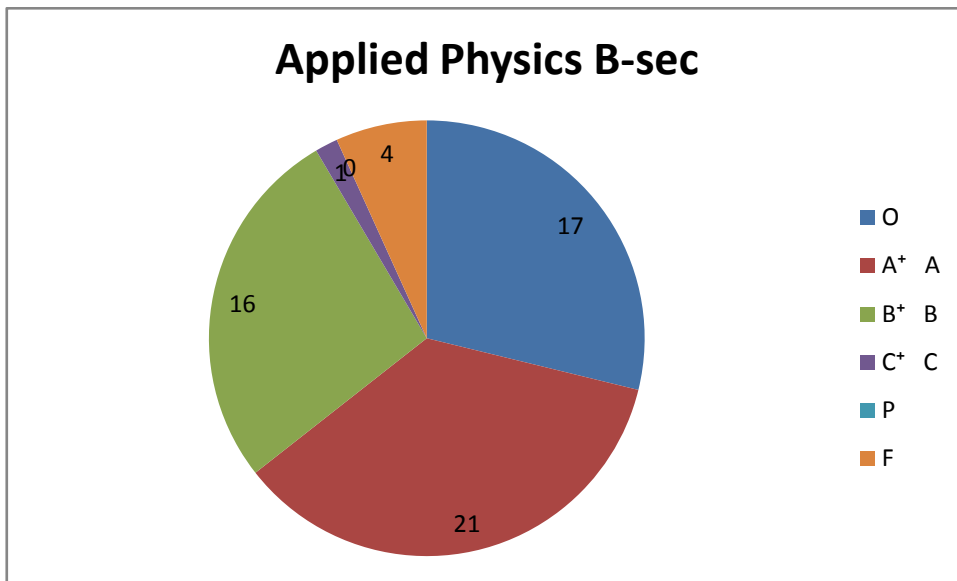


Fig :2 Grade Wise Result Analysis of Applied Physics

Action Suggested/Recommendations

1. More practice is required.
2. Assignments, Tutorials would be given priority.