


Subject: Deficiency of Physics faculty in B.Tech programme.

The syllabus scheme of first year B.Tech (first year) is tabulated below:-

		SHOOLINI UNIVERSITY					
		FACULTY OF ENGINEERING & TECHNOLOGY					
Syllabus Scheme for B. Tech. in Electronics & Communication Engineering							
First Semester (Group-A)							
Sr. No.	Subject Code	Subject Title	Teaching Schedule				Credits
			L	T	P	Total	
Theory							
1	Maths-101 / BT 101	Engg. Maths - I (Elementry) / Elements of Life Sciences	3	1	0	4	3
2	Phy-101	Engineering Physics	3	1	0	4	3
3	EE-101	Basic Electrical Engineering	3	1	0	4	3
4	CS-101	Introduction to Computer& Prog. In C	3	1	0	4	3
5	HU-101	Communication & Professional skills in English	3	0	0	3	3
Practicals / Viva-Voce							
1	Phy-103	Engineering Physics Lab	0	0	2	2	1
2	EE-103	Basic Electrical Engineering Lab	0	0	2	2	1
3	CS-103	Computer Prog. Lab	0	0	2	2	1
4	ME-101	Workshop Practice	0	0	4	4	2
5	HU-103	Value Addition - I (Yoga & Meditation)	0	0	2	2	1
Total			15	4	12	31	21
First Semester (Group-B)							
Sr. No.	Subject Code	Subject Title	Teaching Schedule				Credits
			L	T	P	Total	
Theory							
1	Maths-101 / BT 101	Engg. Maths - I (Elementry) / Elements of Life Sciences	3	1	0	4	3
2	Chem-101	Engineering Chemistry	3	1	0	4	3
3	ME-101	Basic Mechanical Engineering	3	1	0	4	3

4	EC-101	Basic Electronics Engineering	3	1	0	4	3
5	ME-103	Engineering Graphics & Drawing	1	0	3	4	3
6	HU-101	Principles of Engineering Economics & Management	2	1	0	3	2
Practicals / Viva-Voce							
1	Chem-103	Engineering chemistry Lab	0	0	2	2	1
2	EC-103	Basic Electronics Lab	0	0	2	2	1
3	HU-103	Value Addition (seminar)	0	0	2	2	1
Total			15	5	9	29	20

Second Semester (Group-A)

Sr. No.	Subject Code	Subject Title	Teaching Schedule				Credits
			L	T	P	Total	
Theory							
1	Maths-102	Engineering Mathematics- II	3	1	0	4	3
2	Chem-102	Engineering Chemistry	3	1	0	4	3
3	ME-102	Basic Mechanical Engineering	3	1	0	4	3
4	EC-102	Basic Electronics Engineering	3	1	0	4	3
5	ME-104	Engineering Graphics & Drawing	1	0	3	4	3
6	HU-102	Principles of Engineering Economics & Management	2	1	0	3	2
Practicals / Viva-Voce							
1	Chem-104	Engineering chemistry Lab	0	0	2	2	1
2	EC-104	Basic Electronics Lab	0	0	2	2	1
3	HU-104	Value Addition (seminar)	0	0	2	2	1
Total			15	5	9	29	20

Second Semester (Group-B)

Sr. No.	Subject Code	Subject Title	Teaching Schedule				Credits
			L	T	P	Total	
Theory							
1	Maths-102	Engineering Maths - II	3	1	0	4	3
2	Physics-102	Engineering Physics	3	1	0	4	3
3	EE-102	Basic Electrical Engg.	3	1	0	4	3
4	CS-102	Introduction to Computer & Prog. In C	3	1	0	4	3
5	HU-102	Communication & Professional skills in English	3	0	0	3	3
Practicals / Viva-Voce							
1	Phy-104	Engg. Physics Lab	0	0	2	2	1

2	EE-104	Basic Electrical Engg. Lab	0	0	2	2	1
3	CS-104	Computer Prog. Lab	0	0	2	2	1
4	ME-106	Workshop Practice	0	0	4	4	2
5	HU-104	Value Addition - I (Yoga & Meditation)	0	0	2	2	1
Total			15	4	12	31	21

The perusal of above table depicts that there is only one course of applied physics in first year with a credit load of 3 (Theory) + 1(Practical) + 1 (Tutorial). Each credit load of theory and tutorial is one hour while practical is for two hours, which makes a total of six hours per week for physics teaching

In 2010-11 a total of 252 students (which also includes 166 students of ECE, CSE & ME) are studying in first year (B.Tech). The entire class is divided into two groups (A & B) of 126 students each, which are further sub-divide into two sections of 63 each. The course load of Applied Physics per semester is 3 +1(2Hours) +1 credit hour X 2 = (6 X2)=12 hours per week. These groups are swapped in second semester.

The total teaching load in first year in physics is computed to 12 hours only in each semester. While as per UGC rules an assistant professor is required to teach 18 to 21 hours per week in each semester. This clearly explains that one teacher of physics is the actual requirement during first year. Hence no deficiency of Physics teacher.