Equipments Skills Enhancement



Department of Physics

KERAL VERMA SUBHARTI COLLEGE OF SCIENCE SWAMI VIVEKAN AND SUBHARTI UNIVERSITY Subhartipuram, NH-58 Delhi-Haridwar-Meerut Bypass Road, Meerut -250005



Ref No - SUSU IKUSCOS/Phy 1-21

Dated 11-10-2019

NOTICE

It is to inform to all students of UG and PG that the department of physics introduced a Value added course from the date 19/10/2019 to 09/01/2020. The topics are as follows. Attending of these course is beneficial to all students The name of the course as follows. Course duration will be 30 hr.

1 Equipments Skills Enhancement

2 Advance Renewable Power Harvesting

Interested students give their name to HOD Physics

CC- Dean (KVSCOS)

Notice board (All)

Swami Vivekanand

Subharti University MEERUT

Value Added Course I

Course Name: Equipments Skills Enhancement

CODE VAC-P-003

Objectives: To acquire basic knowledge about Basic of Measurement, Electronic Volumeter, Oscilloscope and Signal and pulse Generators.

Unit I: Basic of Measurement: Instruments accuracy, precision, sensitivity, resolution range etc. Errors in measurements and loading effects. Multimeter: Principles of measurement of de voltage and de current, ac voltage, ac current and resistance. Specifications of a multimeter and their significance.

Unit II: Electronic Voltmeter: Advantage over conventional multimeter for voltage measurement with respect to input impedance and sensitivity. Principles of voltage, measurement (block diagram only). Specifications of an electronic Voltmeter/ Multimeter and their significance. AC mill voltmeter: Type of AC millivoltmeters. Block diagram ac millivoltmeter, specifications and their significance.

Unit III: Oscilloscope: Block diagram of basic CRO. CRT, electrostatic focusing and acceleration (Explanation only- no mathematical treatment), brief discussion on screen phosphor, visual persistence. Time base operation, synchronization. Front panel controls. Specifications of CRO and their significance.

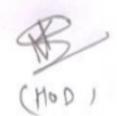
Unit IV: Signal and pulse Generators: Block diagram, explanation and specifications of low frequency signal generator and pulse generator. Brief idea for testing, specifications. Distortion factor meter, wave analysis.

Unit V :Digital Instruments and Multimeter: Comparison of analog & digital instruments. Characteristics of a digital meter. Working principles of digital voltmeter. Block diagram and working of a digital multimeter.

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Report on Value added course Equipments Skills Enhancement

Value added course on Equipments Skills Enhancement was organized from 19-10-19 to 09-01-2020 in department of physics, Keral Verma Subharti College Of Science, Swami Vivekanand Subharti University, Meerut. The speaker was Dr. N.K. Singh. A total number of 43 participate were present. The encompass topic Equipments Skills Enhancement. The purpose of the course was the to give the holistic knowledge of Basic Instrumentation Skill.







Participants during value Added course:Equipments Skills Enhancement

List of participants VAC Equipments Skills Enhancement

	Km Varsha	
	Nidhi Choudhary	
	Parul Chauhan	
	Radhika Rani	
	Sourabh Choudhary	

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