

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 - SVSU /KVSCOS/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


HOD

CC- Dean (KVSCOS)

Notice board (All)


Registrar
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 Voltmeter, 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 dc voltage and dc 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.


(HOD)


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Subharti University
MEERUT



Participants during value Added course:Equipments Skills Enhancement

List of participants
VAC
Equipments Skills Enhancement

Equipments Skills Enhancement	VAC-P-003	Chitrangi Bhardwaj
		AzmainSaifi
		Rohan Sagar
		Rajul Tyagi
		Bhavna Sharma
		Abhishek
		ShahanaSaifi
		Disha Sangwan
		Sandeep Kumar Ray
		Shantanu Mohan Kane
		Ankur Lohiya
		Sanath
		Vrinda Sharma
		Swati
		Ishu Saini
		Prabhat Sharma
		Nishu Tyagi
		Shujaat Ali
		Sourabh Sharma
		Vishakha Sharma
		Deepak Chodhary
		Md Anas
		Amit Pal
		Sheetal
		Aayushi
		Tanuj Kumar
		Tushar Kumar
		Umang Manglik
		Vaibhav Gupta
		Varsha
		Lovey
		Sujat Ali
Dolly Tyagi		
Soniya		
Sangeeta		
Prince Malik		
Pooja		
Akshara Agarwal		
Anubhav Chaudhary		
Kajal Sharma		

		Km Varsha
		Nidhi Choudhary
		Parul Chauhan
		Radhika Rani
		Sourabh Choudhary


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