10 DAYS CERTIFICATE COURSE ON BASIC INSTRUMENTATION

Organized by Department of Physics

Egra S.S.B College, Egra, Purba Medinipur, Pin-721429

Title of the Course: Basic Instrumentation
Nature of the Course: Theory & Practical

• Total Contact Hours: 30 hours

Opening of Registration Process: 03.04.2023
Closing of Registration Process: 09.04.2023

Date for Commencement of the Course: 10.04.2023

• Closing Date of Course: 24.04.2023

Duration:10 days

Total Number of Student Enrolled: 19 UG Students

• Registration Fees: Nil

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Course Coordinator:

Dr. Dipak Kumar Hazra, Assistant Professor and H.O.D, Dept. of Physics, Egra S.S.B College **Number of Faculty Involved:**

Mr. Jyotirmoy Rath, SACT, Dept. of Physics, Egra S.S.B College

Mr. Sukdev Ghosh, SACT, Dept. of Physics, Egra S.S.B College

Miss. Suniti Pradhan, SACT, Dept. of Physics, Egra S.S.B College

Mr. Subhajit Jana, Guest Teacher, Dept. of Physics, Egra S.S.B College

Outcome of the Course:

- ➤ Identify the various parameters that are measurable in electronic instrumentation.
- > Employ appropriate instruments to measure given sets of parameters.
- ➤ Practice the construction of testing and measuring set up for electronic systems.
- > Relate the usage of various instrumentation standards.

Section -1: Structure of the course

Туре	paper	Title of the Paper
Theoretical	l	Basic Instrumentation
Practical	II	Electronic circuit fabrication and instrumentation

Section -2: Syllabus of the Course

Basic Instrumentation

1.1 Familiarization of electronics circuit components - Resistor, Capacitor, Diodes,

Transistor, Inductor, Integrated Circuits.

- 1.2 Characteristics of AC and DC signals.
- 1.3 Familiarization of Galvanometer, Ammeter, Voltmeter, DC power supplies, AC signal Generator, CRO.
- 1.4 Electronics circuit fabrication basics- bred board, soldering techniques and household wiring.
- 1.5 Construction and working of simple electronic circuits- Rectifier, voltage regulator, amplifier, oscillator, multivibrator.

SYLLABUS DISTRIBUTION

SI.No	Faculty	Allotment
1	Dr. Dipak kumar Hazra	Familiarization of electronics circuit components - Resistor, Capacitor, Diodes, Transistor, Inductor, Integrated Circuits.
2	Mr. Jyotirmoy Rath	Characteristics of AC and DC signals.
3	Mr. Sukdev Ghosh	Familiarization of Galvanometer, Ammeter, Voltmeter, DC power supplies, AC signal generator, CRO.
4	Miss. Suniti Pradhan	Electronics circuit fabrication basics- bred board, soldering techniques and household wiring.
5	Mr. Subhajit Jana	Construction and working of simple electronic circuits- Rectifier, voltage regulator, amplifier, oscillator, multivibrator.

Routine

Subject: Basic Instrumentation Duration: 10/04/2023-24/04/2023

Day/Time	09:15 – 10:15	3:30 – 4:30	4:30-5:30
Monday	JR	DKH	SJ
Tuesday	DKH	SP	SG
Wednesday	JR	SP	DKH
Thursday	SJ	DKH	JR
Friday	JR	SG	SP
Saturday	SG	SP	JR

DKH= Dipak K. Hazra, JR= JyotirmoyRath, SG= Sukdev Ghosh; SP= Suniti Pradhan SJ= Subhajit Jana

Course Co-ordinator	HOD	Principal
course co oraniator	1100	rincipai