

DINABANDHU MAHAVIDYALAYA

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Bongaon, North 24 Parganas
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NAAC ACCREDITED-2016(2nd cycle)
Affiliated to West Bengal State University & Formerly under University of Calcutta
Registered under 2(f) & 12(B) of U.G.C. Act 1956
ESTD: 1947

**ADD ON Course Organised by the Department of Physics and Department of Computer
Science
Session 2021-2022**

Topic: Working Principle of Air Conditioning Machine and Refrigerator

Introduction:

The main purpose of using air conditioning and refrigeration is to lower the temperature of a particular area compared to the surroundings. Both the AC and the fridge are very common in Indian households now a day. Domestic usage of AC during the summer season in homes is also very common. Refrigerators, on the other hand, are used to cool relatively small dimensions of space which are generally used for the preservation of food items and also in some cases medical equipment.

Course Objectives:

- Everyone should know the basic mechanism and circuit of Air Conditioner and Refrigerator as these two machines are of immense importance now a days so that one can handle properly these machines with minimum power consumption.
- Students can repair small problems of hardware after learning from these course
- One can start a new business of hardware and software related to these two machines in future

Course Outcome:


Biswajit Ghosh
Principal
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- Students have learnt the basic mechanism of refrigerating system and Air conditioning system.
- Students can handle these operating systems smoothly and they know how to manage the small problems related to these two machines.
- They have gathered knowledge about Basic principles of thermodynamics.

General Information and Course Structure

- Duration: 40 hours
- Entry Qualification: Honours and General students of Pure Sciences
- Language: Bengali/English
- Venue: Dinabandhu Mahavidyalaya, Bongaon
- Starting Date: 26/11/21

Course Curriculum

	Topic	Time
1	Inauguration and Introductory lecture	2 hrs
	Introduction on refrigerating System	2 hrs
2	Working Principle of Refrigerating System	2 hrs
3	Brief concept on Compressor	4 hrs
4	Concept on Condenser	4 hrs
5	Concept on Evaporator	2hrs
6	Expansion Device	4 hrs
7	Temperature controller and Thermostat with circuit diagram	4 hrs
8	Controlling Devices	4 hrs
9	Application of refrigerating system (Air Conditioner)	6 hrs
10	Application of refrigerating system (Refrigerator)	6 hrs
		40 hrs

Course Coordinator: Mr. Susobhan Ghosh and Dr. Samiran Pramanik (9433231316 /9339732185)

Principal: Dr. Biswajit Ghosh

IQAC coordinator: Dr. Zenith Roy
Co-ordinator, IQAC
Dinabandhu Mahavidyalaya

Those who are interested may contact to the course coordinator for enrollment of their name.

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