

IQAC recommendation

IQAC, Vivekananda College, Thakurpukur, met on 18/June/2022, to envisage, formulate and design Add-On Courses, beyond prescribed Curriculum. The IQAC has also decided to organise a program on staff training:

- A. It was decided that all the departments of Humanities, Science and Commerce would design and formulate 30 hour Add-On Courses for 2022-23, Academic calendar, as per UGC guidelines.
- B. It was decided that the Departments would be free to choose the Courses on the basis of their (subject) relevance, practicality and feasibility.
- C. It was decided that the Departments would have a Course Coordinator, who would design the Course and Course materials, in consultation with all teachers of the Department.
- D. It was decided that each Department would design their own format; and could follow a blended mode of instruction.
- E. It was decided that the Departments would be encouraged to use and utilize their own resources while formulating the Add-On Courses, rather than relying on Outsourcing.
- F. IQAC would send its recommendations to the Principal/TIC for perusal and implementation.
- G. The IQAC would also organise a Staff Training programme - 'Effective Working Style 'Conducted by IPE Of Professional Excellence On 25th June 2022 .



Co-ordinator
IQAC
Vivekananda College
Kolkata-700 063



VIVEKANANDA COLLEGE

(GOVT. SPONSORED) (NAAC ACCREDITED GRADE 'A')

(033) 2497 6824
(033) 2497 6834

Ref. No.....

Date.....

Notice

It is hereby notified that Vivekananda College, Thakurpukur, will offer Add-On Courses to All Honours students for the Academic year 2022-23.

Each Department will offer an Add-On Course as per UGC guidelines. Each Course will be structured & overseen by a Course Coordinator, selected from the respective Department. Departmental Heads are requested to take up the matter on an urgent basis.

[Handwritten Signature]
29/6/22

Principal

Principal
Vivekananda College
Thakurpukur, Kol-63

Department of Electronic Science
Vivekananda College (Thakurpukur)
Diamond Harbour Road, Kol-63

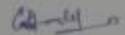
NOTICE

Date-03-03-2023

A departmental meeting will be held at our department on 14-03-2023 at 2 P.M to discuss the following agenda. All teachers and staffs are requested to kindly attend the meeting.

Agenda of the meeting:

- i) Introduction of Add-on course on "Android Phone controlled robot using 8051 microcontrollers and Bluetooth module" for the UG students from the session 2022-2023.
- ii) Resource person to be decided.
- iii) Decision to be taken about organizer.
- iv) Miscellaneous



A HALDER
HOD

Department of Electronic Science



Shot on Y15
Vivo AI camera

Department of Electronic Science
Vivekananda College (Thakurpukur)
Diamond Harbour Road, Kol-63

Resolution of the departmental meeting held on 14-03-2023

• Teachers present in the meeting:

Prof. Alak Halder 
Prof. Debarati Sarkar 
Prof. Sanchari Guha 
Prof. Arpita Das 
Prof. Anjan Paul 
Prof. Romela Dutta 

• Minutes of the meeting:

1. In the Departmental meeting dated 14-03-2023 the teachers of Department of Electronics unanimously decided that a thirty two hour hands on approach as an Add on course would be offered to the students for a holistic development in the field of technology.
2. All the teacher of Electronic Science unanimously decided that Prof. Alak Halder will be performed as coordinator of the program.
3. It is decided that departmental resources will be utilized for this program.
4. The module of the course was accepted by all teachers of the department with their respective ideas.
5. In the meeting it was also decided that the "Android Phone controlled robot using 8051 microcontrollers and Bluetooth module" topic would be divided among the teachers of the department namely Prof. Anjan Paul, Prof. Sanchari Guha and Prof. Romela Dutta with Prof. Alak Halder (HOD) as the course co-ordinator.
6. Certificates would be given to each student who will attend regularly and successful completion of the above course.

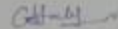
Department of Electronic Science
Vivekananda College (Thakurpukur)
Diamond Harbour Road, Kol-63

TO
THE PRINCIPAL
VIVEKANANDA COLLEGE
THAKURPUKUR, KOLKATA-700063

Respected sir,

This is to bring to your kind information that department of Electronic Science, Vivekananda College, Thakurpukur would be conducting an Add-on course on the topic "Android Phone controlled robot using 8051 microcontrollers and Bluetooth module" to our students for the academic session 2022-23 dated 14-03-2023.

Please allow us to conduct the course as per UGC NAAC guidelines.



Yours faithfully
Alak Halder(HOD)
Department of Electronics

Enclosure

1. Resolution of the departmental meeting.
2. Proposal and course details.

Department of Electronic Science
Vivekananda College (Thakurpukur)
Diamond Harbour Road, Kol-63

Add on Course Title: Android Phone controlled robot using 8051 microcontrollers and Bluetooth module. Course details with Faculty Planner

| COURSE DETAILS | 32 HRS | FACULTY |
|--|------------|---------------------|
| Android Phone controlled robot using 8051 microcontrollers and Bluetooth module. Explanation of designing a robot using DC motors and how the direction of DC motors will be controlled by the commands received from the android application. | 8 (4days) | PROF. ALAK HALDER |
| Explanation of how the status of the robot is sent back to the Android app. It uses interfacing of HC-05 Bluetooth module with 8051 microcontrollers. | 6 (3days) | PROF. SANCHARI GUHA |
| Explanation and interfacing of 8051 microcontroller (AT89S52) <ul style="list-style-type: none"> • HC-05 Bluetooth module • L293D Motor Driver • Robot chassis • DC Motors (2) • Wheels (2) • Castor Wheel • Jumper wires • Bluetooth terminal android app | 6 (3days) | PROF. ROMELA DUTTA |
| The steps to show how to install and use the Bluetooth terminal app. Checking of the Code and explanation of how the character is sent and received by 8051 Microcontroller to rotate the required motors. | 8 (4days) | PROF. ANJAN PAUL |
| Defining some functions which are used in the program. Configure 8051 microcontroller for serial communication. | 4 (2 days) | PROF. SANCHARI GUHA |
| Send status of robot to android app. Controlling the four motors using 8051 microcontroller. Controlling the robot using DTMF with 8051, if you don't have android phone. | 2 (1 day) | PROF. ROMELA DUTTA |