



Information brochure

Variable Energy Cyclotron Centre
1/AF Bidhannagar, Kolkata 700 064
August 2019

Variable Energy Cyclotron Centre (VECC) is a premier Research & Development (R & D) unit of the Department of Atomic Energy (DAE), Government of India and one of the constituent institutions of Homi Bhabha National Institute (HBNI). This Centre is dedicated to carry out frontier research and development in the fields of Accelerator Science & Technology, Nuclear Physics (Theoretical and Experimental), Material Science, Computer Science & Technology and in other allied areas.



VECC is a Constituent Institute of the HBNI, a Deemed to be University with NAAC “A” grade. HBNI at VECC offers Ph.D., MPhil and M.Tech. programs in various specialized areas of Physical and Engineering Sciences.

This brochure provides some useful information about the courses, general guidelines and security instructions to follow at VECC.

1. RESEARCH PROGRAMME (Physical Sciences)

The five year Ph. D. program in Physical Sciences consists of two parts: one year Doctoral Course followed by four years of research work. The program is offered to the research fellows inducted every year and the permanent scientific staffs of VECC.

2. SELECTION OF Ph.D. CANDIDATES:

Students - Research Fellow: VECC is a member of JEST (Joint Entrance Screening test) consortium. Candidates qualified in (written) JEST examinations are selected after interview by the Standing Selection Committee for Doctoral and Post-Doctoral Fellows. Candidates qualified in CSIR-UGC (JRF) examinations are also interviewed by this committee for final selection.

Subsequent to the selection all the JRFs are required to pass a one year prescribed 60 credit courses consisting of theoretical physics, experimental physics and project works. Standing Academic Committee of VECC examines the suitability of all the candidates (both staffs & research fellows) for final enrolment in the PhD programme.

Students - Scientific Staffs: Selected through all India written test and interview. They undergo one year graduation programme at BARC training school and then join VECC as scientific staff. A minimum of 16 credit course work is required for enrollment in PhD.

Those who are directly inducted as scientific staff (i.e; without BARC training school) may also enroll for PhD after qualifying in a written test and interview conducted by competent committee at VECC. A 60 credit course are also mandatory for them for the enrollment of PhD.

The syllabus for the PhD course in Physics work can be found in the following link:

http://www.vecc.gov.in/writereaddata/upload/files/Syllabus_PhySc.pdf

3. RESEARCH PROGRAMME (Engineering Sciences)

The five year Ph. D. program in Engineering Sciences is offered to the permanent scientific staffs of VECC and research fellows inducted through DGFS-PhD programme.

Academic programme offered in VECC under Engineering Sciences

Ph.D. in varied disciplines in Engineering Sciences

M.Sc. (Engg): This programme has been tailored for the employees of the department.

Enrolment in Ph.D. in Engineering Sciences

Students are enrolled as per the following criteria:

- Candidates with M.Sc. (Engg)/ M.Tech. (Scientific staff)
- Candidates selected under DGFS-PhD scheme (research Fellow)

Enrolment in M.Sc. Engineering

For scientific staffs only: Normal duration of the M.Sc.(Engg) programme, including the course work and research, leading to a thesis, will be two and half years

Students are inducted as per the following criteria:

- The applicant has a PG Diploma issued by HBNI and is from Training School and then selected through interview by standing academic committee
- The applicant has AMIE / B.Tech. / M.Sc. Degree and he / she has been screened through a written test followed by interview



Photograph of the doctoral fellows (Physical Sciences) of 2017-18 batch in laboratory.

General Guidelines and Instructions for Research Fellows

4. **PAYMENT OF STIPEND:** All selected students receive monthly fellowship for 5 years.
- First 2 years (JRF): Rs. 31,000/- + entitled HRA* (*if hostel is not availed)
 - Next 3 years (SRF): Rs. 35,000/- + entitled HRA* (*if hostel is not availed)
 - Beyond five years, a limited numbers of SRFs are provided with financial support of Rs. 17,500 per month for limited period in the sixth year and no financial support is provided beyond 6th year.
 - Candidates selected through CSIR-UGC (JRF) examination receive their fellowship and other financial support directly from CSIR/UGC.
 - Attendance recorded through RFID of the research fellows are forwarded by respective guides to Accounts Section of VECC at the end of every month. Stipend is transferred in the student's bank account by the Accounts Section.
5. **CONTINGENCY GRANTS:** JRFs/ SRFs can claim Contingency Grant up to 40,000 per annum. Contingency grant are given to meet the expenditure towards purchase of books, stationery etc. and travel for attending seminars and conferences. The reimbursement of actual cost of work related travel other than indicated above, tuition fee, registration fee, thesis evaluation fee and any other similar fee paid by JRFs/SRFs are borne by VECC subsequent to the approval of competent authorities. The contingency grant is paid on reimbursement basis against actual bills.

Apart from this, a research fellow is entitled to receive international travel grant (up to Rs 1,25,000 for North & South America, Australia, New Zealand; up to Rs 1,00,000/- for Europe, Africa, Far-East Asia viz. Japan, China, Hong Kong, Taiwan, Korea, Indonesia; up to Rs 60,000/- for neighboring countries e.g; Sri Lanka, Nepal, Bangladesh, Burma, Singapore, Malaysia, Thailand, Maldives etc) once in five-year tenure from HBNI, Mumbai. Participation in any scientific event in India or abroad are treated as on duty.

6. **LEAVE:** JRFs/ SRFs are entitled for the following leaves:

S. No.	Nature Leave	Maximum days per annum
1.	Paid Leave	30 days (Not applicable during 1 st year.)
2.	Casual Leave	8 days
3.	Special Casual Leave	2 days
4.	Maternity/ Paternity Leave	As per Government of India norms.

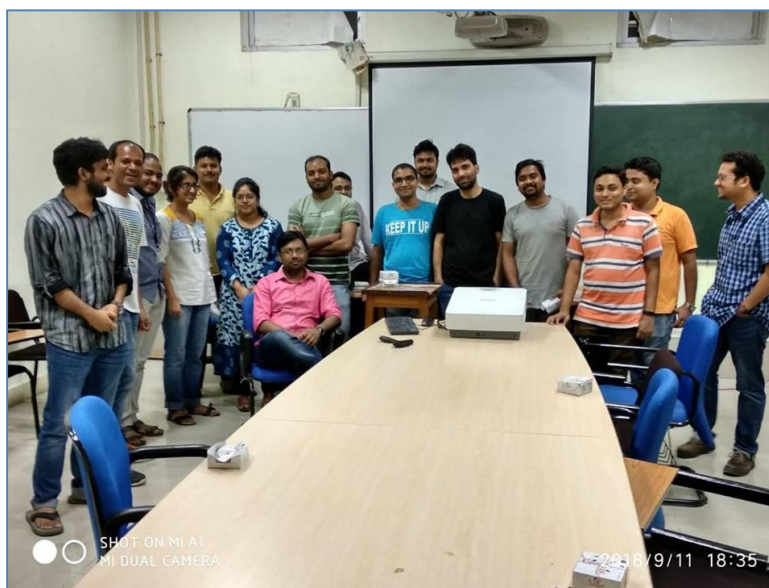
7. HOSTEL ACCOMODATION:

VECC offers limited hostel facilities to the PhD students. The hostel is located in the campus itself.



Photograph of the (Left): VECC Hostel (Right) VECC Guest House

There is a common room with TV, refrigerator, microwave oven & other cooking facilities for preparation of a quick meal in VECC Hostel.



Farewell program organized by the students for one of their seniors on completion of his tenure.



Common Room at VECC Hostel



Badminton court adjacent to VECC hostel

All the JRFs/ SRFs are required to maintain proper decorum in dealing with fellow hostel mates/inmates and other guests who stay in the hostel. Creating and maintaining healthy environment by following rules and good civic practices is collective responsibility of all JRFs/ SRFs staying in the hostel. In case of any misconduct, appropriate action as deemed fit (individual or group) will be taken by the competent authority.

VECC has zero tolerance for ragging. It is considered as a serious offence and ragging in any form is strictly prohibited at the VECC premises.

8. CANTEEN TIMINGS:

The main VECC canteen located near the hostel operates at the following time schedule:

Item	Timing
Breakfast	8.00 AM to 9.00 AM
Lunch	12.00 PM to 1.30 PM
Dinner	7.30 PM to 8.30 PM

Apart from this canteen, breakfast is also served at VECC tea pantry during 9:30 am – 10:30 am; snacks/lunch during 12:00 noon – 1:00 pm, tea during 3:00 – 4:30 pm and evening snacks during 5:30 pm – 6:30 pm. A Café Coffee Day kiosk is also operated during 9:30 am – 7:00 pm except Sunday.

9. RESEARCH SCHOLAR'S WINGS, LIBRARY & INTERNET:

After the successful completion of doctoral course, fellows are provided office space subject to the availability at Raja Ramanna Research Scholar's Wings (RRRSW). The research scholar's wings have a lecture hall, a separate discussion room, copying machine and printers. VECC have 3 well equipped class rooms.



Photograph of the Raja Ramanna Research Scholar's Wings and its corridor



Photograph of the VECC library. Fellows can access the library through their PCs.

All the students are provided with individual sitting space with Desktop having internet connectivity through LAN which connects them to the external world through web. They can connect from their Desktop to the internal facilities like Library, Main Computing Facilities, registration for medical check-up and all other relevant facilities he/she is entitled to. Hostel rooms have also LAN connection. Copying machine and printers are available in the Research Scholar Wings.

10. MEDICAL FACILITIES:

To fulfil the medical need, research fellows under VECC/DAE fellowships are given the membership of Contributory Health Service Scheme (CHSS) operated at VECC and are issued a membership card. Doctors are available at the VECC premises; students can consult them if required. In case of medical emergency, CHSS facility offers hospitalization in the city hospitals with which VECC has official tie-up.

11. SECURITY INSTRUCTIONS AT VECC:

1. For entry to and exit from VECC premises the VECC main gate can only be used.
2. If you would like to use Gate No 2 of Guest House for either going to canteen or Guest House, you can't carry any kind of bag/material. If you need to carry Bag/material then please use the Main Gate.
3. Please show your RFID card at the security gates during entry and exit to VECC premises.
4. To carry cell phone in the campus, Trainees/JRF/SRF/Post-doctoral fellows need to submit a request for permission letter with Police Verification Certificate (PVC). Please collect a prescribed form from Dean's office, fill it and submit it to Dean's (Academic) office. You need to carry the copy of the approved permission letter all the time during your stay at VECC campus.
5. You can bring your laptop in VECC premises with a valid permission letter and you need to produce a Gate pass for it at the time of exit.
6. Any JRF/SRF/Post-doctoral fellows who want to work beyond regular office hours or on holidays can do so by taking permission from the security section based on the recommendation of the concerned PhD guide/host at VECC.

12. COMPLAINTS COMMITTEE: A committee has been established VECC to look into the complaints regarding sexual harassment of women in this centre. Contact of chairperson: +91 33 2318 2220.

13. GRIEVANCE CELL: To address the grievances of the employees and research fellows/post docs, VECC has a grievance cell. However, fellows are encouraged to discuss any grievances with his supervisor first and Dean (Students Affairs) before reaching to grievance cell. Contact of Chairperson : +91 33 2318 2210.

14. PLACEMENT CELL: The placement cell at VECC, chaired by the Dean (Students Affairs), provides information to the graduating students for the suitable placement

15. ANTI RAGGING CELL: An anti-ragging committee chaired by Director, VECC has been constituted for the prevention and prohibition of ragging at the centre. Dean Academics (Physical Sciences and Engineering Sciences) are in the committee among others.

16. STUDENTS' EXTRACURRICULAR ACTIVITIES:

VECC encourage research fellows to participate in extracurricular activities like blood donation camp during their stay in the campus.



VECC own "Netaji Subhas Memorial Award" for mobilizing maximum number of donors among the first time blood donation camp organizers in 2016-17. The award was given recently in a program organised by Voluntary Blood Donors Association of West Bengal

17. CONTACT INFO:

Dean (Academic: Physical Sciences):

Parnika Das

Office Phone: +91 33 2318 2310

Cell: +91 9433066901

E-mail: deanacphy.vecc@hbni.ac.in, parnika@vecc.gov.in

Dean (Academic: Engineering Sciences):

Sarbajit Pal

Office Phone: +91 33 2318 4729

Cell:+91 9433043095

E-mail: sarbajit@vecc.gov.in

Dean (Students' Affairs):

Tilak Kumar Ghosh

Office Phone: +91 33 2318 2309

Cell: +91 9163183818

E-mail: tilak@vecc.gov.in

Assistant Personnel Officer:

Anjan Kumar Pattra

Phone: +91 33 2318 4213

E-mail: akpattra@vecc.gov.in

For detail activities of VECC-HBNI please follow the web link:

<https://www.vecc.gov.in/pages/display/8780-About-HBNI>