

INDIAN INSTITUTE OF SCIENCE
EDUCATION AND RESEARCH
THIRUVANANTHAPURAM

*An autonomous institution under the
Ministry of Human Resource Development, Government of India*



GUIDE BOOK OF CURRICULUM AND REGULATIONS FOR
THE PH. D. PROGRAMME

2015 - 16

www.iisertvm.ac.in

The Indian Institute of Science Education and Research (IISER) is an Institution conceived and established by the Ministry of Human Resources Development (MHRD) of the Government of India. The mission of the Institute is to offer postgraduate level teaching of the highest international standards to school leaving (+2) students and also to conduct frontline research leading to Ph.D. Degree, in basic sciences like Biology, Chemistry, Mathematics, Physics and other Interdisciplinary Science subjects.

The six IISERs established by MHRD are at Bhopal, Kolkata, Mohali, Pune, Thiruvananthapuram and Tirupati.

IISER THIRUVANANTHAPURAM CAMPUS

IISER TVM started functioning in August 2008 at the transit campus in the Department of Computer Science of the College of Engineering, Thiruvananthapuram (CET). The Institute is residential. This means all students will reside in the Institute hostels.

The phase-I construction of the permanent campus of IISER TVM at Vithura is expected to be completed in a year's time.

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About the Programme

Eligibility

1. A Master's degree in Science, Bachelor's degree in Engineering or Medicine with a First Class or equivalent.
2. The candidate must have a valid score in at least one of the following National Level Examinations: CSIR-UGC-JRF, DBT-JRF, DST-INSPIRE for Ph.D., ICAR-JRF ICMR JRF, GATE, JGEEBILS, JEST, NBHM etc.¹

Selection Procedure

Twice every year, students are admitted to the Ph.D. Program, at the beginning of the Varsha (August) and Vasanth (January) semesters of the Institute. Applications will be invited through Press advertisement and announcement at the Institute website : www.iisertvm.ac.in. Shortlisted candidates will be called for an interview at IISER Thiruvananthapuram. The names of the selected candidates will be announced at our website.

Enrollment

The successful candidate has to register for the Ph.D. Programme by producing originals of the required certificates and payment of the registration fees on the day prescribed for Registration.

Duration of the Programme

The minimum and maximum duration of the Ph.D. Programme are 5 semesters and 10 semesters respectively. At the end of 10 semesters, the registration would be cancelled and any re-registration must have the approval of the Senate.

¹ as specified in the press advertisement inviting PhD applications

Registration

- Every student must register for the courses of a semester on the first day (registration day) of the semester.
- Registration involves payment of the prescribed fees for the semester.
- A fine of Rs.100/- per day will be levied for late registration done after the first day of class.
- Late registration after the first week of the semester can only be done with the permission of the Dean (Academics) or the Director of the institute.
- After 10 semesters, continuation of the course registration must have approval of the senate (see below).

Fellowship

The following National Research Fellowships are tenable at IISER-TVM: CSIR-JRF/UGC-JRF/DBT-JRF/UGC/NBHM/INSPIRE.

In addition, IISER-TVM offers its own Fellowship .

Continuation of the Fellowship in a subsequent semester is dependent on the satisfactory progress of the student's work as reported by the Doctoral Committee (see below) at the end of every semester. Fellowship stands automatically terminated at the end of 10 semesters for which the student registered.

It is mandatory that every Fellowship holder takes part in Teaching Assistant duties as assigned by the respective School. Such duties include help in teaching laboratories, tutorial sessions in courses, grading assignments, library duties, supervision of computational labs and duties associated with the conduct of Institute interviews and examinations. Such assignments are made by the Chairman of the concerned School.

Leave

Application for leave of absence should be submitted in the format available from the Academic Office alongwith necessary supporting documents e.g. medical certificate, if applicable. Leave should not usually be availed without prior permission of the Dean (Academics)/PhD Coordi-

nator.

Semester Leave

A student can avail semester leave up to a maximum of two semesters during the entire duration of the programme, on bona fide grounds. The period of semester leave will not be counted in the prescribed time limit for completion of the Programme. Students will lose financial assistantship during the period of such extended leave. The leave request is to be forwarded by the research guide and Chairperson of the school (or DC) to the Dean(Academics) and is to be approved by the Director. Applications must be submitted well in advance of the date of commencement of the leave requested.

Research work

Research Guide

After Registration, the Institute will assign a research guide(s)* to the student depending on mutual research interests. The guide is primarily responsible for the work and well being of the student.

Doctoral Committee

Each student will have a Doctoral Committee (DC)* appointed by the Institute. The committee will consist of the Guide, the Chairperson of the School and two other members of the IISER faculty who are in research areas related to the proposed work of the student. The major role of the Committee is to monitor the progress of the work, both course work and research, of the student up to the point of the award of the Degree.

The Doctoral Committee meets at least once every semester. At the first meeting of the first semester of the student's Programme, the Committee identifies the courses to be credited/audited by the student (see below for details of course work). At every subsequent meeting, the student presents the progress of his/her work. The semester-wise report of the Committee on the student's progress is mandatory at the time of the registration of the student in each semester.

***Note:**

1. For the School of Mathematics the Research Guide and Doctoral Committee will be allotted after the successful completion of the comprehensive examination.
2. For the School of Physics, the Research Guide and Doctoral Committee will be allotted at the end of the first semester.

Course work

The student should complete, within the first two years of enrolling, course work as follows:

1. Courses as prescribed by the Doctoral Committee/School, for a minimum of 12 Credits. Increase in the course requirement if needed will be decided by the Doctoral Committee/School.
2. BS-MS students of IISERs will do a minimum of 6 credits.
3. The CGPA of the completed courses must not be below 7.
4. The Committee may, at any time, prescribe additional courses.
5. Courses of the MS Programme, if prescribed, must be of the 300 level or higher (see MS Guide Book for details of courses).

Note: Additional minimum credit/grade point requirements may be placed by individual Schools.

Comprehensive examination

1. On successful completion of the course work, the student must take a comprehensive examination (as specified by individual Schools) in the relevant area of study.
2. In case of failure, a repeat Comprehensive Examination may be given within 6 months.
3. A second failure in the comprehensive examination will result in the cancellation of the registration of the student and removal from the rolls.
4. The Comprehensive examination must be cleared by the student in a maximum of 5 semesters from joining the Institute, failing which the registration will be cancelled.

Monitoring Research Progress

1. The Doctoral Committee will make semester-wise assessment of the progress of the research work of the student and report to the Dean (Academics).
2. The DC may advise the student in case of unsatisfactory performance in course work or research.
3. In case of continued lack of progress or initiative on the part of the student, the DC may recommend the cancellation of Fellowship or termination of the Registration.

4. The DC is also empowered to recommend to the Dean (Academics) any disciplinary action in case of misconduct or unethical practices.
5. In case of any dispute between the student and the guide, the DC may consider it and recommend suitable remedy.

Research seminars

The student has to give at least two research seminars to the department:

The first one, to be given before the end of the fourth semester, will essentially concern with the formulation of the research problem and survey of existing literature.

The second seminar, called the synopsis seminar, will discuss the major findings of the student that will go into the thesis. The synopsis seminar will be given just prior to the submission of the Thesis Synopsis to the Dean (Academics) (see below) and with the approval of the Doctoral Committee.

Both the seminars will be assessed by the Doctoral Committee and will be judged as *satisfactory* or *unsatisfactory*. In the latter case, a suitable course of action will be suggested by the DC.

Thesis submission

Thesis Synopsis

The thesis synopsis is a Chapter-wise summary of the thesis. This is prepared after the go ahead from the DC. Each school will specify the publication requirements the student must satisfy before submission of the synopsis. The Synopsis is presented by the student to the Committee consisting of the Dean (Academics) and the DC members. The synopsis is evaluated by this committee. The committee may propose revisions to the synopsis, in which case, it must be revised and resubmitted.

The accepted synopsis is further processed by the office of the Dean (Academics).

Thesis Examination

SELECTION OF EXAMINERS

The following steps are followed by the Dean (Academics) in processing the accepted synopsis.

1. A panel of two external examiners is confidentially selected by the Dean (Academics) from a list of a minimum of four possible examiners suggested by the DC, at the synopsis evaluation meeting. The list should contain their contact details.
2. The synopsis is sent to the selected examiners by email and their willingness to examine the thesis is ascertained. If any examiner is unwilling to accept the examinership, or no response is received within a fortnight, another from the list is contacted.
3. The research guide(s) will serve as the third examiner.

THESIS SUBMISSION

Electronic copy of the thesis produced in the prescribed format are to be submitted to the Dean (Academic)'s office within two months of the

submission of the synopsis. The thesis is to be forwarded to the Dean (Academics) by the thesis Guide(s) and the Chairperson of the School with due certifications.

RESEARCH PROPOSAL

In addition to the thesis, the student is to prepare a detailed research proposal not directly connected with the thesis (not more than 4000 words) and submit it to the Doctoral committee within four weeks of the submission of the Ph.D. thesis. The research proposal must provide details of the idea and supporting documentation which justifies its feasibility. The idea of the research proposal is to provide a starting point of the students' independent research career.

THESIS EXAMINERS' REPORT

The thesis is sent to all the examiners for evaluation and for their comments on the originality and scientific merit of the findings of the author and to judge whether the work deserves the award of the PhD Degree of IISER-TVM. Specifically they will be asked to give *one* of the following verdicts:

1. The thesis is acceptable as such without any revision. I recommend the award of the Ph.D. degree of IISER-TVM to the candidate.
2. The thesis is acceptable as such without any revision. I recommend the award of the Ph.D. degree to the candidate subject to his/her satisfying the Viva Voce board about the questions/clarifications I have raised in my report.
3. The thesis needs revisions along the lines I have suggested in my report. The Ph.D. degree can be awarded to the candidate after the revisions are made to the satisfaction of the Doctoral Committee. The revised thesis need not be sent to me.

4. The thesis needs revisions along the lines I have suggested in my report. I wish to see the revised thesis.
5. The thesis is not acceptable for reasons I have given in detail in my report. I do not recommend the award of the Ph.D. degree of IISER-TVM to the candidate.

OBTAINING THESIS REPORTS

The following steps are taken by the Dean (Academics)'s office after sending the thesis to the examiners.

- The examiners are reminded of the report every fortnight, after an initial period of 3 weeks.
- Monthly status report of the progress of reviewing is sent to the Head of the School/Department.
- If no report is received within 3 months of sending the thesis, a new examiner may be appointed by the Dean (Academics).

FURTHER PROCESSING OF THESIS REPORTS

On receipt of both the reports, the Dean (Academics) convenes the DC to discuss the reports and to take further action. The following guide lines may be observed by the DC in arriving at their decision:

- If the verdicts from the two external examiners are either (1) or (2) , the DC may recommend holding the open Viva Voce Examination.
- If the verdicts from the external examiners are both (5), the Dean (Academics) may constitute a committee of experts from the institute to recommend further action.
- If one of the verdicts alone is (5), a third examiner may be appointed. If the third report in this case is also (5), the Dean (Academics) may constitute a committee of experts from the institute to recommend further action.
- Viva Voce examination can be held only when two final reports are positive.

Viva Voce Examination

Once two external positive reports are received, the Dean (Academics) approves the holding of the Viva Voce Examination and appoints the Viva Board. The composition of the Board is as follows: Chairman of the Board is the Chairman of the School.

Members consist of : (a) One of the thesis examiners (b) Guide(s) and (c) two members of the IISER faculty with research interest in related areas. The examiners may seek answers to the questions raised in the thesis reports.

The Chairman reports the result of the Viva Voce examination to the Dean (Academics). If the Board declares the candidate to have performed satisfactorily and recommends that PhD Degree be awarded to the candidate, the Dean (Academics) forwards the recommendation to the Senate of the Institute. The Senate may then recommend the award of the Degree to the Board of Governors.

Copies of the thesis are to be deposited in the Central library and School or Departmental Libraries along with an abstract.

Regulations

Conduct and Discipline

CODE OF CONDUCT

Disciplinary policies of Indian Institute of Science Education and Research Thiruvananthapuram (IISER-TVM) are put in place to ensure a secure academically enriching environment for all members of the community and to promote civility on campus. Students of IISER-TVM are expected to show personal integrity, respect for Institute resources, respect for others rights, for the values of scholarship and teaching. Students are expected to adhere to the institute rules and regulations. Any violation will be handled according to the rules set forth by the Senate and Board of Governors of IISER-TVM. The administrators of the institute may notify parents/guardians if a student behaves recklessly or his/her academic career is in serious jeopardy.

Any of the following shall constitute violation of the Code of Conduct for students and makes the student liable to disciplinary action by the Institute.

- Lack of courtesy and disorderly conduct or disruptive acts (within or outside Institute premises).
- Any act that compromises the safety/security of individuals or Institutional facilities.
- Wilful damage or unauthorized removal of Institute property.
- Unauthorized access to institutional facilities/records.
- Tampering of data/records (reading, copying or destroying).
- Any act of fraud/misrepresentation/dishonesty.
- Misappropriation of any belongings of fellow students/staff/faculty.
- Adoption of unfair means during examinations or misconduct in research.
- Infringement of personal privacy.
- Ragging in any form.
- Caste/religion/ethnicity/gender/physical disability based discriminatory behaviour/remarks.

- Sexual harassment/assault.
- Possession of banned substances or dangerous items (illegal drugs, weapons, firearms etc.) that endangers safety of student himself/herself or others.
- Any act that affects the reputation/orderly conduct of the institute.

THE DISCIPLINARY PROCEDURE

1. The Students Disciplinary Committee (SDC) of the Institute is constituted under the chairmanship of a faculty member by the Director. Depending on the issues of allegations involved, the Chairman of the SDC may invite additional members, for example the Coordinator of BS-MS/PhD Programme, students faculty advisor/research supervisor, Deputy Registrar (Academics & Administration) in case of academic related issues, to facilitate with the investigation.
2. SDC will investigate the allegations of misdemeanours or violation of the Code of Conduct, without bias. The SDC will subsequently submit a fact-finding report and recommend disciplinary action(s), if any, to the Dean, Student Affairs.
Complaints related to caste/religion/ethnicity/gender-specific discrimination and sexual harassment will be investigated by an appropriate committee of the Institute and will report directly to the Director.
3. While hearing the disposition of the accused student(s) and witnesses, the Chairman, SDC may invite two senior student observers, from the BS-MS (5th Yr) and PhD/IPhD programmes respectively, to be present with the SDC.
4. The student observers are to be invited by the Chairman, SDC in consultation with the Dean, Student Affairs, from a list of nominees forwarded by the Schools. The list of nominees is valid for a year.
5. The student observers shall withdraw at the conclusion of the above and may submit their remarks (if any) in writing to the Chairman, SDC for consideration.
6. The Chairman, SDC, shall keep records of the entire proceedings of the meetings.
7. All disciplinary actions shall be notified in writing to the concerned students and their parents/guardians by the Office of the Registrar.

8. A student who feels aggrieved with the disciplinary action may appeal to the Director. The appeal has to be filed within a period of one month from the date of intimation of disciplinary action stating clearly the case and explaining his/her position and reason(s) for reconsideration of the decision.

DISCIPLINARY ACTIONS

Violation of the Code of Conduct shall invite disciplinary action, which may include penalties such as, reprimand, fine, suspension/expulsion from the hostel, debarring from examinations, withdrawing/withholding of scholarship/fellowship/benefits or access to institute facilities, withholding of grades and/or degrees and suspension for a certain period or even permanent expulsion from the Institute.

The Senate may withhold recommendation of a student, who is found guilty of a major offence, to the Board of Governors for the award of a degree, even if the student has satisfactorily completed all the academic requirements.

Lack of knowledge of the rules and regulations is not an admissible excuse or defence for misconduct/dishonesty, and shall not be a basis for leniency.

DISCIPLINARY ACTION FOR MALPRACTICES IN RESEARCH

Students involved in conducting research at IISER-TVM are expected to maintain highest standards of integrity. Any form of unscrupulous conduct will be investigated by competent authorities and could warrant a variety of disciplinary actions, in severe cases cancellation of Ph.D. registration or even cancellation of an awarded Degree at any time.

Research misconduct can take place in many forms, including deliberate interference with the integrity of the work of others, plagiarism, falsification of data, and fabrication of data. In particular, students are expected to observe the practice of acknowledging source(s) of information reproduced in his/her thesis, reports, publications, or seminars.

Plagiarism includes, without citation, the appropriation of other's text, results, or ideas.

Falsification includes actions such as not accurately representing research records or results, manipulating reagents or equipment settings, to produce a preconceived outcome.

Fabrication includes making up data and recording them.

Honour Pledge

1. The student must sign and submit to the Institute the following Honour Pledge at the time of registration in the Varsha semester. The pledge must be counter-signed by the parent/guardian.

IISER TVM STUDENT HONOUR PLEDGE

- a. I promise, on my honour, that I will conduct myself in the Institute and outside, with decorum and decency befitting the high moral and ethical standards expected of the members of the National Institute, IISER TVM and follow its rules and regulations
- b. I will not engage in ragging. I understand that ragging is unlawful and liable to prosecution by law enforcement authorities of the State besides any disciplinary action the Institute may take which may include dismissal from the Institute.
- c. I will not engage in overt/covert sexual harassment.
- d. I will not resort to any dishonest practice in examinations/assignments.
- e. I will not engage in plagiarism in my writings and will acknowledge the work of other authors according to international practices.
- f. I will follow the Library and Hostel regulations of the Institute.
- g. I understand that violation of this pledge makes me liable to disciplinary action by the Institute.

Sd/-
Student

Sd/-
Parent/Guardian

2. The student and his/her parent/guardian should also sign, at the time of admission, the prescribed anti-ragging forms (visit <http://iisertvm.ac.in/anti-ragging-initiatives>) as per the stipulation of the MHRD, Govt. of India.

Library Regulations

1. Library hours:
 - a. Monday to Friday: 9 AM to 7.30 PM
Saturday: 9 AM to 5 PM
Sunday: Closed
 - b. During Exam Week: 9 AM to 10 PM.
 - c. Circulation Timings: 9.15 AM to 5.15 PM (Monday - Friday); 9:00 AM - 12:00 Noon (Saturday)
2. All registered PhD students are eligible for membership in the institute library.
3. PhD students can borrow maximum 4 books at a time for 2 weeks, provided they do not have any overdue book. PhD students, who have completed their course work can borrow 10 books for 60 days. (Note: Some books may have a shorter loan period depending on the demand).
4. Users must leave their bags and other belongings outside the Library. Only notebooks and papers are allowed inside the library. Borrowed books are allowed to be taken to the library for return/renewal only. All items taken out of the library (including personal items, if any) are to be produced for verification by the check point staff engaged in front of the library.
5. Always carry the identity card and must be produced whenever asked for. Identity card is mandatory for borrowing books from the Library.
6. Strict silence has to be maintained by all users inside the Library.
7. Use of Mobile Phones, Laptops, consumption of food and drinks are strictly prohibited inside the Library.
8. Use of the user PC kept inside the library is allowed for accessing library catalogue, e-journals, e-books and academic databases only.
9. Return of book is mandatory before the due date. A fine of Rs 1/- per day per book for the first week of delayed return and Rs 10/- per day per book thereafter will be levied. Renewal of a book is possible only if there is no pending reservation against it. A book may be recalled any time before the due date, if it is urgently required by another member. A late fee of Rs 10/- per day per book will be imposed for the non-compliance with the requirement.
10. Any book, including reference books can be borrowed for overnight reference, at the closing time of the library and to be returned at 9 AM

on the next working day. Only one book can be borrowed per user for overnight reference. A late fee of Rs 50/- per day per book for the delayed return of such book will be charged.

11. Mutilation of books in any form (e.g. underlining, writing on pages, tearing off pages, damaging the binding etc.) will lead to a heavy fine or even replacement of the book. Before borrowing a book users should ensure the condition of the book and bring to the notice of the library staff, if any mutilation is found.
12. Members who lose/mutilate library books are liable to replace it with its latest edition along with a penalty of 20% of the total cost of the book. All such replaced books must be of the latest edition. If the book is part of a set or series they may be called upon to replace the whole set or series. In case of the lost books is untraceable in market or out of print Library committee reserves the right to decide appropriate penalty.
13. PhD students should return all the books they borrowed before they go for vacation.
14. Users should obey the library rules and regulations. Violation of rules and any act of misbehaviour will be brought to the notice of the Library Committee Chair, and will lead to strong disciplinary action.

Hostel Regulations

IISER-TVM being a residential institute, all students are expected to reside in the institute hostel throughout their course.

1. Please do not make noise in the rooms, corridors and premises of the hostel especially during night.
2. Keep your rooms and premises clean and tidy. You are responsible for keeping your rooms clean.
3. Please take utmost care not to damage furniture, TV, washing machines, building structure, electrical fittings etc.
4. Strictly avoid getting into arguments with fellow hostelites, localites and office staff.
5. Cooking inside the rooms is strictly prohibited.
6. Guests are not allowed in hostel rooms.
7. In case of any emergency (illness, accidents etc), contact the concerned warden.

8. Any overt or covert sexual/caste/religion/creed/linguistic/color remark will lead to immediate removal of the offender from the institute rolls.
9. All students must return to the hostel by 10.00 pm.
10. Bringing illegal substances such as explosives, drugs, narcotics and other illegal substances to the hostel /hostel premises is strictly prohibited.
11. Please switch off all electrical equipment after usage, if found otherwise, a fine will be levied, including recovery of cost of electrical equipment/fitting/ appliances etc.
12. Please take care of your personal belongings.
13. Anti-ragging regulations of the institute have to be strictly followed in the hostels too.
14. Leaving the hostel for a day or longer need prior permission from the concerned warden.
15. Use of drugs/alcoholic beverages/tobacco products in the hostels is strictly prohibited. Smoking in public is a punishable offence.
16. Students should be either in the hostel or in the IISER. Prior permission from the concerned warden has to be obtained in case the student need to go anywhere else. This has also to be recorded in the register kept for the purpose in the Hostel.
17. Permanent address including the phone numbers of the parent/guardian has to be given to the Warden/IISER office. Also the address has to be updated whenever there is a change due to shifting/ change of phone number of the parent etc.

Deans, Heads and Coordinators

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