

## HONOUR CODE

Our community operates on a principle of trust. Most research materials are kept in accessible locations. Research on our campus depends critically on colleagues being able to trust each other's data. Any form of cheating, plagiarism, or falsification of data is unacceptable and will invite appropriate consequences.

### Disclaimer

The purpose of this handbook is to outline the procedures for students to receive a degree. This handbook will be updated annually in August. Any major changes made prior to that time will be posted to our website with notification to all graduate students by email. The information in this handbook should be viewed as guidelines and are subject to change depending on the policies of the Institutes.

## Academic Calendar

It is the student's responsibility to ensure they meet all requirements and deadlines. Academic years (Aug to July) are abbreviated Y<sub>1</sub>, Y<sub>2</sub>, etc.

### PhD Calendar

Timeline	Event	Notes
Y <sub>1</sub> Aug	Orientation	Visit to labs and facilities
Y <sub>1</sub> (Sep-Dec)	Rotations	2 rotations <sup>1</sup>
Y <sub>1</sub> Dec	Lab assignments	
Y <sub>1</sub> (Mar-Jun)	TCM and renewal	Thesis committee meeting
Y <sub>1</sub> Jun	CE-I (First attempt)	
Y <sub>2</sub> Dec	CE-I (Retry)	IntPhd first attempt
Y <sub>2</sub> (Jan-Jun)	CE-II and registration	
Y <sub>3</sub> , Y <sub>4</sub> (Mar-Jun)	TCM and renewal	
Y <sub>5</sub> (Aug-Dec)	Thesis approval or extension request	
Y <sub>5</sub> (Jan-Jul)	Synopsis and thesis submission	
Y <sub>6</sub> (Aug-Dec)	Thesis approval or extension request	Students on extension
Y <sub>6</sub> (Jan-Jul)	Synopsis and thesis submission	Students on extension

### IntPhD Calendar

Timeline	Event	Notes
Y <sub>1</sub> Aug	Orientation	Visit to labs and facilities
Y <sub>1</sub> (Sep-Feb)	Rotations	3 rotations.
Y <sub>1</sub> Feb	Lab assignments	
Y <sub>2</sub> Dec	CE-I (First attempt)	Phd (Retry)
Y <sub>2</sub> Jun	CE-I (Retry)	
Y <sub>3</sub> Dec	CE-II and registration	
Y <sub>3</sub> , Y <sub>4</sub> , Y <sub>5</sub> (Mar-Jun)	TCM and renewal	
Y <sub>6</sub> (Aug-Dec)	Thesis approval or extension request	
Y <sub>6</sub> (Jan-Jul)	Synopsis and thesis submission	
Y <sub>7</sub> (Aug-Dec)	Thesis approval or extension request	Students on extension
Y <sub>7</sub> (Jan-Jul)	Synopsis and thesis submission	Students on extension

### MSc Calendar

Timeline	Event	Notes
Y <sub>1</sub> Aug	Orientation	Visit to labs and facilities
Y <sub>1</sub> (Jan-Jun)	TCM and renewal	
Y <sub>2</sub> (Aug-Sep), Y <sub>2</sub> (Jan-Jun)	TCM and renewal	
Y <sub>7</sub> Aug - Dec	Thesis approval	
Y <sub>7</sub> Jan - Jul	Thesis submission	

<sup>1</sup>Students can do one extra rotation after Dean Academics approval.

## Where to go for help

### Non-academic services

Service	Supervisor	Notes
Main Reception	Mr. Anand Kumar reception@ncbs.res.in	Any general enquiry
Air Conditioning	Mr. HS Venkataramana achelp@ncbs.res.in	AC issues
Animal Care Facility	Dr. Mohan mohan@ncbs.res.in	Animal procedures <sup>2</sup>
Civil and Interiors	Mr. H.M. Basavaraja, Ms. Savitha civilint@ncbs.res.in	Civil engineering, plumbing, paints, furniture and interiors, gardening
Computer services	Mr. Prasanta Baruah ithelp@ncbs.res.in	Computer hardware and software, internet services
Electricals	Mr. Suresh Kumar elechelp@ncbs.res.in	Electrical issues, wiring, lighting
Electronic Workshop	Mr. Dorababu elecworkshop@ncbs.res.in	Electronic components, PCB
Hostel and Canteen	Mr. Shaju Varghese hospitality@ncbs.res.in	Canteen, guest house, hostel, lab cleaning, bathrooms
Instrumentation	Mr. P.C. Gautam instrumentation@ncbs.res.in	Lab equipment, UPSs, telecom issues, projectors, videoconferencing
Lab kitchen	labkitchen@ncbs.res.in	Gas cylinders, media, glassware
Library	Mr. A.D. Chinchure library@ncbs.res.in	Books, journals, online resources <sup>3</sup>
Room booking	Ambili D https://ncbs.res.in/hippo	All room bookings
Transport	transport@ncbs.res.in	Local transport

### Academic Office

Academic Office acadoffice@ncbs.res.in, Ms. K. S. Vishalakshi ksvishal@ncbs.res.in

For what? All student academic matters, including scheduling Annual Work Seminars, submission of Thesis Advisory Committee reports, course transcripts, interactions with MU or TIFR, and thesis submission.

### Establishment and Administrative Office

Admin help adminhelp@ncbs.res.in, Mr. Ashok Rao ashok@ncbs.res.in, Head Admin headadmin@ncbs.res.in.

For what? Joining formalities, extramural fellowships, interface with outside agencies.

<sup>2</sup>Not a helpdesk queue. For more information, see Helpdesk System.

<sup>3</sup>Not a helpdesk queue. For more information, see Helpdesk System.

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## Programmes of study

Our programmes target students who intend to pursue research careers in interdisciplinary areas within or outside academia. Our main goal is to provide you with a strong technical background and the capacity for analytical thinking. Your experience here will prepare you to be academic leaders with a competence to define and solve new kinds of problems for the advancement of science and society.

### PhD Programme

NCBS and inStem offer a graduate programme leading to the award of a PhD degree for students holding a Masters degree in a basic science, or a Bachelors degree in any applied science. The standard tenure is 5 years. Students from NCBS are registered at TIFR Mumbai, and those from inStem at Manipal University.

### Integrated MSc-PhD Programme

NCBS offers a graduate programme leading to the award of a PhD degree for students holding a Bachelors degree in any basic or applied science. Students from 4-year Bachelors programmes can opt to be considered either for the Int-PhD or the PhD stream during the application process. The standard tenure is 6 years. Students are registered at TIFR Mumbai.

### MSc-by-Research Programme

Candidates applying for the Int-PhD programme may sometimes be offered a position in the NCBS MSc-by-Research programme. Selected students must identify a suitable host laboratory and be funded on extramural grants. The standard tenure is 3 years. Students are registered at TIFR Mumbai.

## MSc in Wildlife and Conservation

NCBS, the Centre for Wildlife Studies (CWS), and the Wildlife Conservation Society (WCS) jointly run the MSc in Wildlife and Conservation programme. This two-year programme is organized into three semesters of course work, and a final semester of field research and thesis preparation. Students are registered at TIFR Mumbai.

## TIFR Academic Structure

The Tata Institute of Fundamental Research has been deemed a University. The Academic Council of the TIFR exercises oversight over the functioning of the University, setting policy, initiating new programmes and approving the award of degrees recommended by the Subject Boards. The AC is chaired by the Director, TIFR and among its external members are three appointed by the UGC. TIFR conducts Academic programmes leading to PhD and MSc degrees. These programmes are supervised by Subject Boards for Biology, Chemistry, Computer Science, Mathematics, Physics, and Science Education. The Biology Subject Board has members from DBS, Mumbai and from NCBS, Bangalore with Professor Upinder Bhalla as the convenor. The Board Guidelines specify coursework requirements and evaluation norms for students and also oversees the thesis examination process. The Board chooses examiners for PhD and MSc theses and authorizes a viva voce examination when all concerns are addressed. Once the student passes the examination, the Board recommends award of the relevant degree.

## Student Categories

### PhD and Int-PhD Research Scholars

Candidates for the PhD and Int-PhD programmes are invited to apply in response to advertisements appearing in national newspapers in August every year. Candidates short-listed on the basis of their written test performance, academic record, statement of purpose, and letters of evaluation finally selected through an on-campus interview conducted each summer. Research Scholars are supported from core NCBS or inStem institutional funds throughout their standard tenure. We encourage Research Scholars to apply for external fellowships. If the fellowship pays less than the scholarship amount, the institute will pay the difference.

### MSc-by-Research Students

Each year a set of Int-PhD candidates are offered a position in the MSc-by-Research programme. MSc students must identify and directly join a host laboratory at NCBS. They may be supported through CSIR, ICMR or DBT fellowships, or through an extramural grant from their host Principal Investigators. Admission and continuation in both situations is contingent on association with the PI's laboratory. Contingency grants are not provided for students in this programme.

### MSc in Wildlife and Conservation

Students selected to this programme are supported through core programme funds. These students are not affiliated with any laboratory; instead, their training, fieldwork, and research are coordinated by the Program Directors.

### Transfer students from other TIFR Centres

Physics, Chemistry, Biology or Computer Science students already enrolled in the PhD programmes at other TIFR campuses may conduct their research work at NCBS under the guidance of an NCBS faculty member. Such students can



transfer within TIFR to NCBS and will have to meet the academic requirements of NCBS. Similarly, NCBS students may work with faculty members at other TIFR Centres. These transfers should be coordinated with Head Academics, and with the appropriate Subject Board Convenors.

### Externally registered PhD students

A small number of talented candidates with fellowships from CSIR or other funding agencies may utilize these fellowships to work in our laboratories and if recommended by their faculty mentor, register at outside institutions, which recognize our faculty as guides.

### Externally funded Junior Research Fellows

Students with fellowships from CSIR/UGC/ICMR/DBT/DST or other agencies may utilize these fellowships to work as JRFs at NCBS and inStem. Candidates interested in JRF positions must contact host laboratories directly. Faculty members may recommend exceptional JRFs or other candidates to be interviewed for entry into the graduate programme during the regular NCBS and inStem interviews conducted each summer.

### Regulations and fees

All students must follow the rules and regulations applicable to Research Scholars and will enjoy the same campus privileges. A tuition grant is awarded to all students in the PhD or Int-PhD programme to meet the requirements of tuition fees at TIFR or MU. Fees for externally-registered PhD students on grants and students in the MSc-by-Research programme are covered by extramural funds available to the student or the PI.

## PhD and Integrated PhD

### Degree Awarding Institutions

Students enrolled in the PhD and Int-PhD programmes at NCBS are awarded degrees by TIFR, Mumbai. Students enrolled in the PhD programme at inStem are awarded the degree by Manipal University.

### Orientation and Rotations

New students must arrive on campus by August 1 each year and must attend an Orientation Programme which runs for three weeks. In this programme, students meet with faculty members and their research groups. They are also informed about Research, Technical and Administrative services on campus. At the end of the Orientation Programme, and at the end of each rotation, students must select a host laboratory for their next rotation. Rotation slots must be mutually agreed by students and their hosts. Once a decision of host laboratory is made, students should request the host to send a confirmation email to the Academic Office ([acadoffice@ncbs.res.in](mailto:acadoffice@ncbs.res.in)). It is the responsibility of the student to ensure that this email is sent by the host PI on time, at the latest by the Thursday prior to the start of the rotation. Head Academics might at this stage suggest alternative rotation host laboratories. Note that students without Masters degrees cannot rotate in or join inStem laboratories. All students do two rotations of 8 weeks each, and Int-PhD students do a third 8-week rotation. The rotations will start on the last Monday of August each year. Students present their work to be graded in poster sessions on the last Wednesday of each rotation.

## Identifying a Thesis Supervisor

The Rotation Mentorship Committee is always available to meet students and discuss their rotation choices or their choice of final labs. At least two weeks prior to the completion of the last lab rotation, students must meet prospective advisors to choose a Thesis Supervisor. Lab choices must be mutually agreed by students and their Supervisors. Once a decision is made, students should request the Supervisor to send a confirmation email to the Academic Office stating their willingness to supervise the student (acadoffice@ncbs.res.in). It is the responsibility of the student to ensure that this email is sent by the host PI on time, at the latest by the Thursday following the poster session at the end of the last rotation (in December for PhD students and February for Int-PhD students). Head Academics might at this stage suggest alternative Thesis Supervisors. Students officially join the host lab on the Monday immediately after completing rotations.

## Thesis Advisory Committee

Each student will constitute a Thesis Advisory Committee (TAC) consisting of the thesis supervisor and at least two other members of the faculty. The members of the TAC should be chosen in consultation with the thesis supervisor. There is no upper limit to the number of members in the TAC, but at least two members of this committee including the thesis supervisor should be faculty members of NCBS or inStem. Additional members may be from other research institutions or universities from within India or abroad.

## Thesis Committee Meetings

Students should constitute and hold their first meeting with the TAC by June of their first year. From their second year in the programme, students are required to conduct one meeting before the end of June every year to ensure renewal of studentship, fellowship and hostel accommodation. Head Academics will recommend renewal for students based on the TAC report, in July each year. The TCM should review performance in courses undertaken in the past year and discuss initial research efforts. Students are required to submit a brief write up of their work one week before the committee is scheduled to meet. Raw data pertaining to the material being presented (as lab notebooks or in electronic format) should be available for assessment during the meeting with the TAC. The TAC will report the progress of the student to Head Academics after each meeting, with a copy of the report provided to the student. This report will be referred to at the Annual Review of students conducted in July each year to decide on extensions and enhancements of fellowships. Apart from these, students are required to meet with the TAC to review their performance in the Comprehensive Exam, request extensions to the standard tenure, and obtain approval for writing their thesis. There is no upper limit on the number of meetings, students are encouraged to meet with their TAC once every six months to review research progress. Students are responsible for scheduling thesis committee meetings and submission of the report to the Academic Office.

## Maintenance of laboratory notebooks & experimental records

Every researcher must maintain a carefully detailed laboratory notebook. Laboratory notebooks with numbered pages are available from Stores and must be used for recording information on experiments, unless e-Notebooks are used by the laboratory. Pages may not be torn or removed from a laboratory notebook. Notebooks and records must allow complete reconstruction of experiments and should include date and time of the experiment; rationale for the experiment; details of each step (volumes, number of animals, time of incubation etc.); raw data details on every experimental trial. Laboratory notebooks with raw data, and well-documented electronic versions of the data should be submitted to the Thesis Supervisor at the time of thesis submission.

## Duration of the Programme

PhD students are expected to complete thesis requirements within a period of five years or earlier, from the date of joining NCBS or inStem. Int-PhD students are expected to complete thesis requirements within a period of six years or earlier, from the date of joining NCBS. The minimum residency period for submission of a PhD thesis is two years from the date of joining for NCBS, and three years following registration at MU for inStem. Fellowship support is provided for the duration of the standard tenure of the programme, subject to recommendations by the TAC. Extension of Fellowship beyond the standard tenure, which is granted for a maximum period of 6 months, requires the approval of Head Academics. PhD or Int-PhD students seeking extensions should submit a detailed justification through a thesis committee report to Head Academics in December before the start of their 5th or 6th year, respectively. Extension of studentship is granted for a maximum of 12 months but salary support from NCBS/inStem is not provided for more than 6 months beyond standard tenure. The thesis supervisor will typically provide salary support for extensions beyond the first six-month period. Students may stay in hostel during the period of the first extension but will lose priority for allotment of a single room.

## Credit Requirements

Category	PhD	IntPhD
Coursework	16	22
Laboratory Rotations	4	6
Research Performance	20	22
Thesis	30	30

## MSc-by-Research

### Selection

Students offered a position in the MSc-by-Research programme via the Int-PhD interviews can be appointed on grants funded by external agencies, but cannot be supported from core funds. Students already in the Int-PhD programme are not allowed to select this option.

### Thesis Advisory Committees

A committee consisting of the Thesis Supervisor and two other faculty members should be constituted and should meet at the start of Year 2, before September. In this meeting, the committee will review the student's performance in courses and research work. The student has to obtain the permission of the TAC to register at TIFR. The student must hold a second meeting with the TAC in Year 2, before May. In this meeting the TAC should monitor the progress of the student. A final meeting with the TAC should be held in Year 3, before December, to obtain approval for writing the thesis. A report which includes recommendations made by the TAC must be submitted by the Thesis Supervisor to the academic office, with a copy to the student, after every TAC meeting. While these three meetings are mandatory, there is no upper limit to the number of meetings with the TAC.

### Registration for MSc

MSc students register at TIFR at the end of their first year or the beginning of the second year, subject to evaluation of their coursework and research performance by the TAC. Registration requirements have to be completed before the

end of September in the second year in the programme. A minimum residency period of one year from the date of joining is required for award of the MSc degree.

### Renewal of appointment

In the first year, before the end of June, the Thesis Supervisor must assess the student's performance and submit a fellowship renewal request to the Academic Office. In subsequent years renewal is based on the recommendation of the TAC.

### Course requirements

MSc students are required to take a minimum of 12 credits in coursework. In addition, they will undertake research projects accruing 2 credits each semester, and earn 36 credits for the thesis which is evaluated. Students are advised to complete course requirements in the first two semesters after joining.

### Annual Work Seminars and Journal Clubs

Students are expected to present a formal AWS which will be evaluated by their TACs. The first such presentation will be made during the second year. Active and regular participation in one of the journal clubs held on a weekly basis is mandatory for all students.

### Submission of thesis

Formal approval from the TAC is necessary to start writing a thesis. There are no extensions in the MSc Programme.

### Credit requirements

Coursework	12
Laboratory Rotations	24
Thesis	24

## MSc in Wildlife Biology and Conservation

### Background

This programme is offered by NCBS, the Centre for Wildlife Studies (CWS), and the Wildlife Conservation Society (WCS). It is open to graduates from any field who are less than 35 years of age, with at least 50% marks in the core subjects. The admission process includes an entrance test and an interview. The entrance test consists of multiple-choice questions that assess competence in the English language, logical and analytical skills, mathematics, statistics, basic biology and ecology, and general knowledge relevant to wildlife, ecological and conservation issues, as well as an essay section on conservation issues. Dr. Ajith Kumar and Dr. Jayashree Ratnam serve as Directors of this programme.

## Course structure

The programme consists of three semesters of classroom and field courses and a fourth semester of project work. Students typically complete 18-20 courses during the first three semesters. In general, papers are scheduled as follows. The first semester consists of foundation courses in the biological and ecological sciences, mathematics and statistics. It also includes hands-on training in the application of modern tools in conservation such as remote sensing and GIS. The second semester builds on the foundation to more advanced courses such as Population, Behavioral and Conservation Ecology, Species Interactions, Advanced Statistics, Marine Ecology and Scientific Writing. It also develops communication and problem solving skills that are necessary to effectively practice conservation. The third semester addresses the historical, social and economic framework within which conservation operates, and some advanced electives. The programme gives equal emphasis on providing theoretical understanding and developing practical skills. Classroom lectures, laboratory work, assignments, debates, group discussions, student presentations, short field exercises and extended field visits are therefore given equal importance.

## Dissertation project

In the fourth semester, students design and carry out a conservation related research project under the supervision of one guide and one or two co-guides. In the last week of the semester the students will submit a dissertation based on the research, in the form of one or more manuscripts ready for submission to a peer-reviewed journal. Students will also present their findings in a public defense.

## Internships during semester breaks

During breaks between semesters, students are encouraged to do internships with other research and conservation organizations in the country. In these, students pursue specific topics of interest, gain exposure to different approaches to conservation and research, establish connections in the wider community and identify potential future projects. If required, the programme office will help the students identify projects and institutions that they would like to work with.

## Field trips

There will be one major field trip in each semester, in addition to short trips throughout the course. Field visits to various protected areas in India expose the students to fauna and flora of different biomes, field identification and tracking skills, field sampling techniques, elements of research design and issues in practicing on-ground conservation. Students are expected to have field guides, binoculars, compasses, field clothes and sleeping bags during field trips.

## Library

Students will have access to libraries of NCBS, CWS and Centre for Ecological Sciences, including online journals. Students are, however, expected to have personal copies of reference books such as field guides and basic statistics texts. Please follow rules and regulations of each library regarding issuing books and referencing.

## Assessment and student performance

Student evaluation in the first three semesters will include flexible continuous assessment (assignments, term papers, student presentations, quizzes, short projects, class participation etc.) and written examinations. A minimum of 50% is necessary to pass in any course. The overall grading is based on the cumulative grade point average (CGPA; NCBS follows a letter grading system based on final course marks A+: 90-100; A 80-89; B+: 70-79; B 60-69; C+: 50-59 Pass;

C 40-49 Fail). Students who fail in a course have to attempt a re-examination, in which the maximum marks possible correspond to the passing grade. Students who fail in more than two courses may not continue in the programme. Students who continue to under-perform despite repeated warnings may also be asked to leave the programme.

## Attendance

Students are expected to attend all classes, laboratory and field exercises, and other course-related activities. In case of illness or other emergencies, students are requested to make all attempts to contact the programme office as early as possible.

## General guidelines on behavior

Guidelines regarding the use of equipment, records, laboratories, computers, internet and behavior are outlined in general guidelines for students at NCBS. In particular, students must behave responsibly when using different facilities on campus including laboratories, equipment, library, canteen, cafeteria, sports facilities, etc.

## Academic integrity

Plagiarism, including copying assignments and during written examinations, will be dealt with very strictly. Students must ensure that they are familiar with the proper conventions on citing others' ideas and publications, and always clarify from faculty how much collaboration with classmates is permissible. During field trips, students must remember that they represent NCBS and other partner institutions, and comport themselves accordingly. Many of the field sites visited are locations of long-term research and conservation projects of these organizations, so students must ensure that they do not do anything that jeopardizes these projects.

## Safety

Student personal safety is of utmost importance; Students therefore have to strictly follow instructions that are given while working in laboratories and on field trips.

## Credit requirements

Coursework (min)	50
Thesis	10

## Graduate Coursework

Courses are an important component in the training of graduate students on campus. The Graduate Coursework Programme aims to create an exciting and distinctive intellectual environment within which students are continually exposed to new techniques and new ways of thinking. The programme is structured so that entering students may plan their semesters in advance, in order to meet their academic requirements. Students are encouraged to take as many courses as they feel necessary, or as recommended by their supervisors and thesis committees. All courses taken by students and the grade obtained are listed in the final transcript.

## Academic terms

The bulk of courses will be offered in one two terms Term 1 Aug – Dec. Term 2 Jan – Jun. In addition, the campus hosts several workshops on a variety of topics throughout the year. Students are encouraged to actively participate in workshops. However, a maximum of one workshop may be used toward credit requirements. Workshops are typically scheduled in Dec-Jan and Jun-Jul to avoid conflict with courses.

## Course types

Basic courses provide a general foundation in various fields. They will typically follow one or more textbooks, and students will be assessed on their performance in homework, exams, presentations and class discussions. Advanced courses introduce students to specific advanced research areas, exploring how central ideas have developed, and training students to parse the relevant journal literature. These are typically seminar-style courses, and often require students to turn in projects or make presentations in place of a written exam.

## Course credits

1 credit = 10 contact hours. For example, a 3-credit course can be 1.5 hour lectures, 2 times a week, for 10 weeks; or 1 hour lectures, 2 times a week, for 15 weeks. Basic courses are worth 3 credits; advanced courses are usually worth 2 credits or more. Workshops provide 1-2 credits.

## Online course descriptions

Course offerings are listed at <https://www.ncbs.res.in/ncbscourses>. The course type, number of credits, and basic descriptions will be available four semesters in advance. More detailed information, including the name of the instructor, the date of the first meeting, the weekly schedule, and the detailed syllabus, will be available one semester in advance.

## Grades

We follow a letter grading system based on final course marks.

Letter Grade	Marks
A+	90-100
A	80-89
B+	70-79
B	60-69
C+	50-59
Fail	< 50

Instructors may set a higher pass grade for a specific course. This information will be provided to students at the beginning of the course.

## Registering for courses

Students should attend the first meeting of any course they wish to credit. Courses can be dropped within a period of one month from the first meeting, unless stated otherwise by the instructor. Dropping a course after one month/or

the date specified automatically results in a fail grade, which will appear on the transcript. Students may audit a course without credit, with prior permission from the instructor.

### Registering for courses at other academic institutions

Courses offered outside the campus, at institutes including IISc, RRI, and JNCASR be taken for credit. If students wish to take an outside course, they must first get the permission of their supervisor or the Head Academics during lab rotations. Students must register for these courses through the Academic Office. It is not permitted to drop an outside course once registered. Course fees, if any, will be deducted from the student's contingency grant, but this amount will be reimbursed provided the student obtains a grade of B or above as per the grading system of the Institute concerned. Each institution follows its own calendar so external courses must be planned well in advance.

### Exceptions

Any issues not listed here (e.g. transfer of credits, absence from courses due to scheduling conflicts, inability to complete a course during a single term, etc.) should be discussed with Head Academics, or the course instructor. Students who join the programme after having already passed graduate level courses at other recognized institutions may be granted an exemption to the course work requirements, at the discretion of the Biology Subject Board. Requests for this may be submitted via Head Academics.

### Annual Work Seminars and Journal Clubs

Students are expected to present a formal AWS which will be evaluated by their TAC. The first such presentation will typically be scheduled during the student's second year in the programme. Students are required to coordinate their presentations with the TAC. Notes on AWS performance must be included in the TCM reports. The calendar for the AWS is typically announced three months in advance. Students who are unable to speak in the scheduled slot must inform Head Academics well in advance and arrange for an alternate speaker. Active and regular participation in one of the journal clubs held on a weekly basis is mandatory for all students.

### Coursework credit requirements

PhD at TIFR	Int-PhD at TIFR	MSc at TIFR	PhD at MU
16	22	12	12

## Comprehensive Examination

Students must pass the CE Parts I and II to register at TIFR or MU. The CE is designed to test the breadth of a student's background, as well as their ability to read the literature and formulate a research question.

### Part I

This has two closed-book written sections, each of which must be completed within 4 hours. Section A includes questions from core subjects which require short answers, and test understanding of basic scientific concepts. Students must pass a minimum number of questions to qualify for an overall pass. The total number of questions and the minimum passing requirements can vary from year to year, and will be described in the exam. Section B requires students to read



papers from the primary scientific literature, critique these papers, and describe original research projects based on their reading. Students have two attempts to pass Part I, following which they may appear for Part II.

## Part II

This is a viva voce examination in the area of research. Students should assemble their CE committee in consultation with Head Academics. This committee must include the TAC but may also include external members. This examination will cover the student's proposed research area, but the committee may also test a student's background, material from courses, etc. The CE committee may declare the student passed or ask a student to reappear for Part II. Students have two attempts to pass Part II.

## Deferments and failed attempts

Attempts of Part I and II of the CE can be deferred by 6 months. The request for deferment has to be submitted in writing to Head Academics following consultation with the TAC. Irrespective of the deferment, the deadline for registration to the PhD programme is not correspondingly extended. In the event that a student performs unsatisfactorily in the second attempt of Part I, the CE committee can petition Head Academics to allow the student to appear for Part II. However, an unsatisfactory performance in Part II will lead to the student being asked to leave the programme. If student has sufficient research work despite an unsatisfactory performance in the CE, he or she may be permitted by Head Academics to submit a thesis for an MPhil degree (for students in the PhD programme) or an MSc-by-Research degree (for students in the Int-PhD programme) within six months. This thesis is evaluated by external examiners, and does not have to be supported by published manuscript.

## Recommended timelines

- CE Part I (A and B) are offered each year in June and December.
- PhD CE Part I should be cleared by Y2 December, and Part II by Y2 June.
- Int-PhD CE Part I should be cleared by Y2 June, and Part II by Y3 December.

Also see Academic Calendar.

## Registration and Renewals

The detailed checklist of forms and documents required for registration at TIFR and MU is available at the Academic Office. Please ensure you are using up-to-date forms. PhD and Int-PhD students at NCBS are eligible to register with TIFR on completion of coursework requirements and passing the CE. PhD students at inStem are eligible to register with MU on passing the CE, and coursework requirements may be completed in the first year after registration. MSc-by-Research students at NCBS are eligible to register with TIFR on completion of coursework. Studentship must be renewed annually, and runs from Aug 1 – July 31 during any academic year.

## Registration deadlines

The Academic Office will send an email reminder to all students one month prior to the registration deadline. Timely registration is the student's responsibility and should be coordinated with the Academic office. Please do not interact directly with TIFR or MU. Requests for extensions should be submitted by the Thesis Supervisor to Head Academics a minimum of 6 months prior to the deadline. The request has to be discussed with the student and approved by the TAC.

PhD	June 30, Y <sub>2</sub>
Int-PhD	January 15, Y <sub>3</sub>
MSc-by-Research	September 30, Y <sub>2</sub>

Also see Academic Calendar.

## Submission of registration packages to the Academic Office

The completed registration package, with all signatures, must reach the Academic Office one month before the registration deadline. The office requires this time to obtain approvals from the Convenor of the Biology Board, Head Academics, and Director before forwarding the package to the Graduate Studies Office at TIFR or MU. Incomplete packages will not be forwarded and may result in discontinuation in the academic programme.

### TIFR registration requirements

1. Abstract and scientific report submitted to the TAC.
2. Report of the TAC recommending registration.
3. Course transcripts including the CE Part I report available at the Academic Office.
4. Statement verifying payment of TIFR registration fees available at the Academic Office.
5. TIFR registration form signed by the student and the Thesis Supervisor.

### MU registration requirements

1. Abstract and scientific report in MU format submitted to the TAC.
2. Report of the TAC recommending registration.
3. Course transcripts including the CE Part I report available at the Academic Office.
4. Statement verifying payment of MU registration fees available at the Academic Office.
5. MU registration form signed by the student and the Thesis Supervisor.
6. Completed MU application form.
7. Copy of statutory approvals for research involving animals, stem cells or human subjects.
8. MSc marks sheet and Degree Certificate.
9. Presentation made in person at MU. Travel will be arranged by the Academic Office.

### Assessments and renewals

Studentship and the associated fellowship is renewed on an annual basis, subject to satisfactory performance in graduate work. July 31st marks the end of studentship unless renewed earlier in the year based on the TAC report submitted in June. For renewal, primary importance is given to progress on thesis research but students are also expected to perform well in coursework, AWS, and journal clubs. Progress in all these areas is evaluated by the TAC. If the TAC finds that the overall progress of a student is unsatisfactory, the committee may recommend to Head Academics that the student leave the programme. Decisions of this nature will be taken in consultation with the Thesis Supervisor, the Dean, and the Director.

### Students supported by fellowships from the CSIR/ICMR/DBT

These funding bodies require an annual progress report countersigned by the Thesis Supervisor. Renewal and enhancement of the fellowship by CSIR/ICMR/DBT after the 2nd and 4th year is contingent upon submission of an

assessment report by a three-member advisory committee recommending upgradation or continuation of fellowship. This advisory committee must include the TAC and one faculty member from another Institute or University.

## Extensions

Requests for extension beyond the standard tenure must be submitted in writing by the TAC to Head Academics before the start of the Semester 9 or Semester 11 for PhD and IntPhD students respectively. Extensions are not granted in the MSc-by-Research programme. The request should include a justification detailing the experiments proposed in the following year, and projected timelines for a first-author peer-reviewed publication. Extensions are granted for one year, but a reduced fellowship from core funds is granted for 6 months only. Students on extension lose priority for hostel accommodation. Within 6 months of the extension (by January 31st) students must meet their TAC and obtain written approval to start on their thesis. This TAC report must be submitted to the Academic Office, along with a note from the Thesis Supervisor providing the extramural funding source from which the student is to be supported. Students must submit their synopsis and thesis to the Academic Office within one year of extension, any subsequent changes to the thesis will be strongly discouraged. The thesis will be held at the Academic Office until the student is formally to submit to TIFR or MU, at which stage the relevant forms can also be filled and submitted. Any extension of studentship beyond one year is contingent on the synopsis and thesis being received by the Academic Office. Requests for such additional extensions should be directed to Head Academics three months in advance and should be approved by the TAC and Thesis Supervisor. Even if the thesis is received, such extensions are granted only for compelling medical or academic reasons.

## Bridging Postdoctoral Appointment

If a student wishes to stay on for short periods after thesis submission for the completion of papers, the Thesis Supervisor should submit a request for a Bridging Appointment to Head Academics one month before thesis submission, supported by a copy of the student's curriculum vitae. The bridging appointment is tenable for a maximum period of 12 months. Accommodation is not provided on a Bridging Appointment.

## Thesis Submission

The detailed checklist of forms and documents required for synopsis and thesis submission at TIFR and MU is available at the Academic Office. Please ensure you are using up-to-date forms. Studentship is necessary for submission of the thesis to TIFR or MU. Students are required to follow through with their Thesis Supervisor to ensure timely submission of all required documents. Submission after July 31 will require that the student coordinate with the Academic Office for payment of tuition fees.

## Internal approval for submission

When a student's research is sufficiently mature, the TAC will assess the work based on a presentation and writeup by the student. This meeting should be held 6 months before the expected date of thesis submission. The TAC must grant approval for writing the thesis in a signed report.

## Synopsis and list of examiners

The student must submit a synopsis to the Academic Office between 6 months and one month prior to the submission of the thesis. The Thesis Supervisor must simultaneously submit a list of examiners with contact details. This information is confidential and not available to the student. For TIFR PhD, Int-PhD, and MSc-by-Research degrees, the list

must include 6 examiners, with at least two from India and two from abroad, and none from within TIFR. For MU PhD degrees the list must include 10 examiners, of which at 5 must be from India and 5 from abroad, and none from within MU. For MU, for each examiner a brief CV and list of publications in the relevant field must be included. The thesis and synopsis must have the same title.

### Publication requirements for synopsis submission

There is no publication requirement for an MSc-by-Research degree. For TIFR PhD and Int-PhD degrees, the student must have at least one first-author manuscript. For MU PhD degrees, the student must have two manuscripts, one of which is a first-author publication. The manuscript must encapsulate work included in the thesis, and be accepted for publication in a refereed journal of international repute. Conditional acceptances requiring revisions, do not meet the requirement.

### Use of figures in the thesis

Figures from published work, even from the student's or Thesis Supervisor's own publications, should be avoided unless there is compelling reason to include them. Any such figure, with or without modification, can only be used with permission from the copyright holders. The figure must be accompanied by a citation of the original source, and a statement that permission was obtained.

### Thesis defense

The thesis is assessed by the Thesis Supervisor and either one or two external examiners, for MSc and PhD degrees respectively. Subject to the recommendation of the examiners, the student will present the thesis in an open defense followed by a closed door session with the examination committee, which comprises one external examiner and the Thesis Supervisor. The committee must also include a member or representative of the Biology Board TIFR for NCBS students, or a representative of MU for inStem students. Inquiries about the status of reports and scheduling of the thesis defense may be directed to Head Academics. Please do not contact the University Cell of TIFR Mumbai or Manipal University directly. A checklist available at the Academic Office lists the sets of thesis copies and completed forms which must be submitted post the viva voce examination.

## Academic Integrity

Studying and working on our campus requires the highest standards of honesty and academic integrity in research, as well as the highest moral and ethical standards of personal conduct. We expect every student to be dedicated toward the advancement of science by respecting the views of others and taking responsibility for their own actions. We therefore insist that you carefully read and strictly abide by these conduct guidelines. Failure to keep to these standards will have dire consequences, which could include expulsion from the programme.

### Investigation of misconduct

Allegations of academic misconduct must be brought to the notice of Head Academics. These allegations will be investigated by Campus Ethics Committees (CECs) consisting of members of the faculty of both NCBS and inStem. CECs can investigate all academic violations of the campus ethics policy, including cases of fraud, plagiarism, and cheating. The CECs must summarise the original complaints, establish the timeline of events, and list the parties involved; determine whether there was any violation of the campus ethics policy; inform the individual being investigated of their

rights; provide the individual a chance to present their version of events; and recommend a penalty against the individual. The recommendation of the CEC will be forwarded to Head Academics for further action. The CEC report as well as the final action will be shared with the individual's Thesis Supervisor as well as their TAC. The individual has the right to appeal. Such appeals must be made to the Director, who will consider the CEC report as well as soliciting input from Head Academics before reaching a final decision. There is no further appeal.

## Maintenance of lab notebooks and records

Every student must maintain a carefully detailed laboratory notebook as a clear and accurate record of the procedures followed. Records of interim results obtained as well as of the final research outcomes must be documented. This is vital not only for proper research practice but also to avoid allegations of scientific misconduct if they were to arise, where original data cannot be found or allegedly lost. We thus insist that all students leaving a lab should return all relevant primary data. The lab will maintain all data pertaining to a publication for at least 5 years post publication. Pages may not be torn from a lab notebook. Records must allow complete reconstruction of your experiment and should include date and time of the experiment; rationale for the experiment; details of each step (volumes, number of animals, time of incubation, etc.); and raw data details on every experimental trial. Students are urged to utilize means of data storage appropriate to the task. Any act of manipulating, misreporting or misappropriating data will warrant serious action.

## Plagiarism

Stealing words is unethical. All your writing must be done in your own words. It may seem tempting to copy a bit of text or a figure from the internet or some web page. This is just as much plagiarism as lifting it from your textbook. By the same token, taking a section and rewording it a little bit is also plagiarism. Plagiarism includes taking sentences from your previously published work since the rights to the words are copyrighted to the journal. We apply these rules about plagiarism to all scientific writing on this campus. Your project reports, assignments related to course work, exams, thesis proposals, presentations and your papers must all be original and without plagiarism. You should maintain integrity in experimental design, generating and analyzing data, applying for funding, publishing results, and acknowledging the direct and indirect contributions of colleagues and collaborators. Use of another person's research data, materials or writing, deception in relation to research proposals, fraud and misuse of research funds, cheating in assignments and examinations will be considered serious violations of the Honour Code. Violations are, at minimum, grounds for automatic failure in a test, and if the plagiarism is serious it is grounds for dismissal.

## How to cite others' work

It is permissible in scientific writing to quote short sections of about one sentence, with attribution. It is also permissible in presentations and talks to display a small number of figures from electronic sources, again with attribution, provided such display is permitted by the source. When writing a paper it is never permissible to use figures from any previous paper without permission from the author and publisher, and without attribution. Use of published figures (with attribution) from your own laboratory or others, requires written permission. All students should refrain from plagiarism, piracy, the fabrication of results or infringement of intellectual property (IP). If you have a concern with the method of including or citing the work of others or if you have concerns on infringing IP, you may consult with your instructor for guidance. Students are advised to apprise themselves of journal policies when quoting from published work in their thesis. At the time of writing your thesis, ascertain if permissions to reproduce data from published manuscripts, even if your own, have to be obtained from the journal concerned.

## Use of institute names in publications and conferences

No student or student organization may use the NCBS or inStem name for any purpose, including identification, without written permission from the Director of institute. Students are encouraged to disseminate research achievements through conferences and presentations; however these have to be done with the consent of your PI, appropriate peer review, and institutional approval. Only those who have contributed to the research should be included as authors on the publication. You are expected to abide by your PI and your committee's judgment where they feel that certain publication may be delayed for a reasonable period for protection of any intellectual property arising from the research.

## Community Ethics

We are committed to maintaining an environment for research, learning and teaching that is free from even the appearance of unlawful harassment or coercion. Improper behavior towards your colleagues, toward the staff, instructors, your fellow students or any other person within the premises will be considered an act of misconduct. We have a zero tolerance policy towards harassment such as physical abuse and assault, threats of violence, or other conduct that threatens the health or safety of any person. Should you observe any such unlawful act, please report it to your Thesis Supervisor or any member of the faculty including Head Academics, the Dean, or the Director. Consequences arising from violations of these guidelines include dismissal.

### Sexual misconduct and harassment

Every person deserves the right to work without fear of prejudice or discrimination. Please ensure that you do not needlessly touch a person, use inappropriate language and comments or resort to anonymous messages or emails. It is important that you respect personal space. We are strongly opposed to sexual harassment, and such behavior is prohibited both by law and by our institute policy. Unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature, will be interpreted as sexual harassment and will not be tolerated. In the interest of preventing sexual harassment, we respond to reports of any such conduct promptly and effectively and take appropriate action to prevent, to correct, and to discipline behavior that violates this policy. Harassment that is not sexual in nature but is based on gender such as sex-stereotyping or sexual orientation is equally unacceptable. As a member of the community, you are required to report any incident of sexual harassment involving any members of the community, including faculty, other academic appointees, staff, coaches, housekeeping staff, students, or non-employee participants in our programmes, such as vendors, contractors and visitors. Please be advised that our policy only covers unwelcome conduct of a sexual nature. Consensual romantic or sexual relationships between members of the community may not fall within the ambit of our policies, unless they may evolve into situations that lead to charges of sexual harassment.

### Professionalism

Be civil and give adequate respect to all your colleagues, instructors, support staff and other members on campus. Keep the premises clean and well-maintained. Being disorderly, violent, or insubordinate, use of impolite and vulgar language, and use of email or social media to transmit your animosity, is strictly prohibited.

### Where to go for help

Students may seek confidential help in dealing with anything viewed as possible misconduct or harassment by talking to any faculty member on campus who the student may feel is appropriate. A complaint may be filed with any member of the faculty, who will forward these to the Dean or Head Academics, who will themselves forward it to the appropriate committee. Complaints can also be filed with The Women's Cell and Internal Complaints Committee (ICC) deals with issues related to sexual harassment, gender discrimination and professional misconduct at the workplace.

- Ethics Policy <https://ncbs.res.in/ethics>
- Harassment Policy <https://ncbs.res.in/sitefiles/CampusHarassmentPolicyDec2013.pdf>
- Women's Cell and ICC [https://www.ncbs.res.in/women%27s/\\_cell](https://www.ncbs.res.in/women%27s/_cell) (broken link)

## Laboratory Safety and Etiquette

It is your responsibility to ensure that there is no sabotage, willful damage, fraud or theft of common equipment or supplies. Unauthorized use of any campus service, equipment, or other properties including the NCBS or inStem name and seal, is forbidden.

### Laboratory Safety

All students are required to attend the Laboratory Safety Course and pass the Safety Test to activate their ID cards and Fellowships. Most students will take this course during Orientation; it is also offered on a monthly basis. Every laboratory and facility will have an emergency evacuation plan and an emergency contact person. In the event of an emergency, please ensure your safety first, then report the emergency to the appropriate contact person, to the main reception, or to security. First-aid kits, spill kits, fire extinguishers and fire blankets, eye washes and safety showers are available in all laboratories or nearby common areas. Please familiarise yourself with the use of these safety systems. To minimise the risk of an accident, not work alone in the laboratory. Use lab coats, gloves, and fume hoods to avoid unnecessary exposure to laboratory chemicals. You should be aware of sterilisation and waste disposal protocols, for chemical and biological waste. Do not use any hazardous chemicals until you have read the material safety data sheet and understood the necessary precautions.

### Responsible use of common equipment

Be a good lab citizen and help keep things running smoothly. For example, you should see that common supplies do not run out, keep the lab clean, and follow safety regulations. As students you have access to and responsibility for expensive equipment. All equipment must be used with care if it is to work at all. You owe it to yourself, your colleagues, and the institute to make sure it keeps working. Read the instruction manual of an instrument before using it. Get instruction on equipment use from someone qualified. If you don't know who is qualified, ask a faculty member. Many pieces of equipment cannot be used till you have been certified in their use. You will not be allowed to use any of the common facilities unless trained and cleared by the appropriate Instrumentation Committee, a process which often requires several weeks. If an instrument is used without reserving with the online scheduler or using the logbook, the run will be terminated and samples disposed. Students are frequently assigned short-term trainees to supervise. You are responsible for any trainee working under you, and if they break equipment you will be held responsible. In general, short term trainees are not granted permission to use delicate equipment. You have to make sure that they only use equipment that they are capable of handling safely, and to supervise them closely. Ignorant use and deliberate misuse of equipment is identical to vandalism, and will be treated as such.

### Rad Lab

The Radioactive Laboratory facility, referred to as the 'Rad Lab', has been classified as a TYPE I radioactive laboratory. The radioactive nuclei that the Rad Lab is equipped to handle are H-3, P-32, C-14, Fe-55, and Ca-45. To become a Rad Lab user you must submit an application form available on the intranet, and pass a stringent test conducted by the Campus Radiation Safety Officer, Dr. P.V Shivaprasad. You must also go through a rigorous orientation programme under the supervision of the Rad Lab student representatives. One of the most important aspects of the orientation programme and tests the candidates must be aware of are the specific protocols for disposal of waste materials generated during experiments performed in the Rad Lab. There are specific methods of disposal for both solid and liquid wastes

as well as the kind of nuclei being used. Once a potential user has cleared the requirements for becoming a user they must to apply for Rad Lab badges, which could take between 6-8 weeks to obtain.

## Animal care and ethics

The use of animal models is often an essential part of biomedical research, and raises important ethical concerns. The challenge is to strike the right balance between the obvious costs and potential benefits in a manner that adequately addresses all ethical issues pertaining to the use of animals in research. In particular, if such research involves pain and suffering of animals, we must ensure that it is truly necessary for the research; it is done as humanely as possible; it is done by paying sufficient attention to the impact any procedure may have on the animal; and that the potential benefits of the outcome of such research justify the use of animals. Most importantly, laboratory animals have no say in how they are used in research. The moral responsibility, therefore, falls entirely on the researcher to ensure ethical treatment and care of these animals. Moreover, scientific data gathered from animals that are not healthy or are in distress are bound to be questionable in terms of quality and reproducibility. In short, researchers need to respect animal subjects and be fully aware of the core ethical concerns surrounding the use of animals in research. To ensure that we maintain high standards of animal care, specific guidelines will have to be followed by all users. Some of these include animal users have to be registered with the Animal Care Facility and abide by its rules; animal users have to be listed on Animal Protocol Forms used by individual labs; users must follow detailed guidelines for ensuring that animals remain healthy and all safety regulations are followed diligently; users must maintain comprehensive records so that animal use and compliance with regulations can be monitored. More detailed guidelines for using the Animal Care Facility will be provided at the time of registration with the facility.

## Where to go for help

If equipment is broken when you try to use it or malfunctions during use, put it in the log, and send an email to the Instrumentation Section and to Mr. P. C. Gautam. Equipment does break even when used carefully. We do not penalize anyone for breakage in normal use. It is an abuse of trust to run away when it happens to you, and a violation of the Honour Code. If it isn't fixed at once then you will spoil the work of others.

- Instrumentation [ins@ncbs.res.in](mailto:ins@ncbs.res.in)
- Mr. P. C. Gautam [pchandra@ncbs.res.in](mailto:pchandra@ncbs.res.in)

## Statutory Research Committees

As required by national policies, specific research committees have been constituted to ensure the safety of the researchers and the research subjects, and the welfare of the environment. The committees oversee particular research areas such as recombinant DNA work, biohazard and radioactive work; research on animal and human subjects; and Stem cell work. Please contact the Dean's Office ([dean@ncbs.res.in](mailto:dean@ncbs.res.in)) if you require any specific information about these committees.

## Institutional BioSafety committee (IBSC):

The IBSC committee is responsible for reviewing all research proposals that involve the use of recombinant DNA and/or pathogenic organisms, human samples and ensuring that the proposed research complies with the Department of Biotechnology (DBT) guidelines. The committee has a mandate to regulate all work involving recombinant DNA, and is charged with ensuring that no genetically modified organisms are released into the environment without adequate study carried out with due precautions. The role of the committee is also to ensure the safety of the personnel and to ensure that the laboratory practices comply with the regulations. The IBSC holds meetings once every 6 months



to review proposals, reports to the DBT. The IBSC, with external members including one appointed by the DBT, examines proposals put before it on the basis of the organisms involved and biosafety issues. The IBSC also considers projects for Safety issues even if they do not involve recombinant DNA.

### **Institutional Animal Ethics Committee (IAEC):**

In order to ensure that all animals involved in research receive humane care and treatment, the Institutional Animal Ethics Committee (IAEC) reviews the proposed use of animals for research to ensure that the procedures followed are indeed required for the advancement of knowledge in a particular field of research. The committee also inspects and monitors the animal facilities at the institute in order to ascertain that all regulations stipulated by the animal welfare guidelines in India are complied with. The IAEC meets twice in a year to review research proposals involving animal subjects.

### **Institutional Ethics committee (IEC):**

It is essential to safeguard the rights and welfare of human subjects, and the rights of the researcher to carry out legitimate investigation as well as the Institute's reputation for the research conducted and sponsored by it. In this context we ensure that the regulations laid by the Indian Council of Medical Research (ICMR), are complied with. The committee meets every 6 months to scrutinize, examine, and review proposals to ensure that the research projects involving human subjects and/or samples, undertaken at on campus or elsewhere by any member of NCBS or inStem adhere to the institute and ICMR ethical guidelines.

Institutional Committee for Stem Cell Research and Therapy (IC-SCRT): In view of collaborative efforts to include use of stem cells, an institutional committee, constituted in accordance with the DBT-ICMR Guidelines for Stem Cell research, reviews all work that involves stem cells. The Committee is registered with the National Apex Committee for Stem Cell Research and Therapy (NAC-SCRT). The institutional committee meets twice in the year to provide overview, review projects and proposals, approve the scientific merit of all issues related to stem cell research.

## **Computer and network use**

Network access, email, and support are shared facilities, meaning that all students, faculty and staff can use them. Hardware and software are usually the concern of individual labs. This section lists shared facilities and rules for accessing them, and makes strong suggestions about security, privacy, and data management. The primary purpose of computer resources is to support academic work, and this is reflected in our policies.

### **Overview of facilities**

The campus computer infrastructure consists of a local-area network connecting all parts of campus using a 10 Gigabit fibre; a secured Wi-Fi network that reaches most parts of campus; file, mail and database servers, as well as firewalls and other servers; internet links; a high-performance computing facility; a centralised storage facility. In addition, our software infrastructure includes site licenses for commonly used software, including Windows, MS Office, Adobe Suite and Matlab; web services including the webpages and an intranet; internal software systems for purchase, personnel and records. The computer services provide technical service and support for mail account management; NCBS- and inStem-owned hardware; web services; NCBS- and inStem-owned software; open source software; special-purpose printing.

## User responsibilities

Use resources effectively for academic purposes, and protect the interests of all users through good etiquette and good security.

- Do not violate privacy. Please do not read any files belonging to other people, or look at their screen while they are working or reading email. Common PCs have no security mechanism to prevent people from reading each other's files; this does not amount to permission to read such files.
- Don't spam, i.e., do not send unnecessary email to a large set of people who are not interested in your message. Be particularly conservative in your use of the aliases 'all', 'student' and 'faculty'. Repeated misuse is grounds for account blockage.
- Don't reply to 'all'. A common mistake is to reply to all recipients of a mail, which may include everybody on campus. When a mail is sent to a mailing list and you feel you must reply, please do not click the 'reply-to-all' option.
- Don't get personal. Even if you are raising an issue of concern to many, don't target individuals in a message sent to a mailing list. If there are specific individuals involved in some contentious issue, it is better to email them or meet them personally to solve the issue.
- Don't flame, that is, do not write emails when you are angry. Especially do not send angry mails to a lot of people or a mailing list when you are angry. You will regret it. Email is a poor substitute for personal discussions.
- Do not waste bandwidth. Bandwidth is costly and is needed for journal downloads, database access, and other academic requirements. We have a limited data rate, and it is meant specifically for academic work. Emails usually use far less bandwidth than anything else. Avoid large attachments. It is a misuse of institute resources to download music or pictures, or to use chat, Skype, and other systems for personal use. These are all very serious bandwidth consumers and block legitimate access for academic use.
- Do not try to reconfigure any of the common machines. Our systems administrators spend a lot of time trying to get everything to work together, but even more time fixing up machines that have been messed up.
- Don't waste printer paper. If you have a lot of data to examine, it is better left on the computer and viewed on the screen. Don't print out papers to look at if you only plan to give them a brief glance do this on screen instead.
- Do not view any offensive material. Porn does not belong in the workspace.

## Backups

There is a key distinction between backup and archival. Backup is intended to protect all current data, and to reconstruct disks when they fail. Backup tapes are typically overwritten with more recent data. Archival is intended to keep a permanent record of data even if it is no longer in active use. Archival records are never overwritten and are usually stored separately. For scientific data, both forms are essential. It is always recommended to have at least 3 copies for data for archival. We strongly encourage laboratories to backup data on a weekly basis; it is not possible to back up large datasets across the network. There is an incremental backup of the mails and web server everyday with a full backup on Sundays. Other forms of backup and archival are the responsibility of individual users and labs. Many labs have GNU/Linux-based server machines for large datasets and image data. The recommended archival medium is to tape. The campus has multiple tape safes for offsite data storage and archival. Please use these in case there is a fire or other accident in your lab. As a further layer of backup, we recommend RAID configuration of your file server, so that data loss will not occur with individual disk failure. This is not a substitute for tape archival, but it does lessen the risk and downtime when individual disks fail. A key part of data backup and archival is managing records of what is in each tape. Archival is pretty useless unless you know where to get each datum.

## Security

Security of the servers is treated seriously and every effort is made to ensure that data is not compromised. All users have to be part of this process. Please have reasonably secure passwords. Do not use simple passwords like your initials, birth date, dictionary based words etc. If your password is cracked the whole institute pays for it as the server gets

compromised. Your accounts are yours alone. Do not give your passwords to anyone. Use Secure Shell (ssh) to connect to your lab servers if permitted. In rare cases the computer administrators may have to freeze accounts if they detect strange remote accesses or other suspicious activity. They will try to contact the account holders as soon as possible to try to sort things out.

## Webmail

The website for NCBS and inStem mail can be reached at <https://mail.ncbs.res.in> and <https://mail.instem.res.in>, respectively. Webmail services are provided to all campus personnel and to visitors who are here for six months or longer, upon recommendation of their group leader. We try to provide abundant but not unlimited disk space on the mail server. Be prudent about the mails you save in your mailbox, and consider using offline mail clients such as Thunderbird or Mac OSX Mail to save mail on your local machine. If you exceed the main quota you will not be able to see incoming mail, so clean out your mailbox periodically. Your mail account will be deleted when you leave the campus. With special requests, this can be extended by one month. If you have important data on the mail server, please give that data to your PI before leaving the campus. Users can access webmail or other mail clients from anywhere on the internet. A few users with specific needs to access machines inside the network may be given VPN (virtual private network) access if approved by the Computer Committee.

## Personal versus academic use

The campus site licenses for Windows, Adobe Suite, Matlab etc. apply only to academic machines. Please do not ask staff to install these on personal machines. Individual labs manage their own software purchases. The computer services can only install such software, as per the terms of their license, on lab machines. Many people use personal laptops in the lab, including laptops bought on student contingency grants. If your personally owned machine doesn't work, please do not ask the staff to fix it. They will be happy to give you contact information for service vendors. Even if a machine is used for academic purposes, if it is not institute-owned we cannot put it under the institute service and licensing umbrella. Please do not install personal WiFi anywhere on campus, it will interfere with the campus wireless.

## Where to go for help

Report problems to the computer services staff by sending email to helpdesk. The computer services have staff on call from 0800 hrs to 2000 hrs on weekdays, and until 1700 hrs on Saturdays. If your machine is on fire you can phone 6420 as well, but this is only for crises, and you should anyway also log the complaint to helpdesk. For institute-wide problems like network outages, the reception has contact numbers for the System Administrators. Please report major outages to the reception desk at any time of day or night, any day of the week.

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Helpdesk	<a href="mailto:helpdesk@ncbs.res.in">helpdesk@ncbs.res.in</a>
System administrator	Prasanta Kumar Baruah <a href="mailto:prasanta@ncbs.res.in">prasanta@ncbs.res.in</a>
Computer Committee	Krushnamegh, Gaiti Hasan, Ramkumar, Shannon

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## Helpdesk System

For many campus services, you can ask for support through a computerized helpdesk system which keeps track of your requests and ensures they are attended to efficiently. The helpdesk email IDs are listed in a table at the beginning of this handbook. Please route all your requests through this system except in the case of a true emergency.

## Helpdesk queries

If it is a true emergency (such as a security problem, computer on fire, or power to lab gone for longer than the generator switchover) do not hesitate to call. Helpdesk responses are fast, but not instantaneous. All other requests are doubtless important, but should be made on the helpdesk system.

The helpdesk is also a queue. Everybody's request is urgent, so if you are number 5 on the list, please be patient.

The staff should always respond to your helpdesk request within a day. Even if the job is a big one that will take time, they should figure out what is to be done and get back to you with some details.

The staff should categorize jobs for you. Category A jobs are the most common, and can be done within a day. Category B jobs require input from a local supplier or company representative, and should be done within a week. Category C jobs are occasional large jobs, such as major equipment breakdowns or orders that require off-site fabrication or imports. In this category, the helpdesk staff should keep you informed on a weekly basis as the job status evolves. The staff will try to make their best estimate for time, but remember that this estimate is based on dealers and other factors outside their control.

## Helpdesk records

Every stage of the response will be documented in the helpdesk initial request, response, contacting vendors, vendor responses, tests and repairs, and final resolution. This is important for you to know what is going on, and for documenting the process. When the job is done, the helpdesk staff will contact you by email to ask if it may be resolved. You must reply to the same helpdesk email, to indicate whether or not the job may be marked as resolved. Please do so promptly. If another item has cropped up, don't tag it on, but create a new helpdesk entry. An item may not be marked as resolved unless the requestor has been contacted and agrees that the item is resolved. We also encourage you to give feedback for each job resolved by the staff. This will help them improve their services. The records mean that staff is more accountable. All steps are on record. You can look at it at the intranet site <https://helpdesk.ncbs.res.in>. The records also mean that you are accountable. The dates of your request and its order are on record, as are any stages where you have changed your mind. If you have an issue about a policy matter, then do not take it up with the staff. Bring it to the Technical and Research Services committee. If you have an issue with how a response is proceeding, please check the job status. If you think that a step (say vendor referral) is unnecessary, by all means suggest an alternative. Be constructive.

## Interactions with the technical staff

Be professional and courteous in all your interactions. It is indeed upsetting when equipment fails, but it is absolutely incorrect to vent your annoyance on the staff (or on anyone else). They are, after all, trained professionals whose job is precisely to help you with these difficulties. We have a number of other policies in place for handling commonly occurring situations such as computer viruses, disk loss, equipment installation and so on. These policies have evolved based on our experiences and the necessity to keep warranty terms intact. Please do not be upset with the staff if they remind you that they are supposed to follow these policies. For example, they will frequently have to tell you that they are not authorized to install a computer or equipment themselves, although they are technically quite able to do so. This is because doing so will void warranty, which will be expensive for the lab in the long run. Please also note that the institute staff should not be called upon for working on personal equipment. In particular, laptops that you buy partly on your contingency grants are owned by you (you can take it when you leave), so it is inappropriate to ask the staff to fix them up for you.

## Where to go for help

The Technical and Research Services Committee oversees these sections. Current members are Dr. Sandeep Krishna, Dr. Minhaj, Dr. Sanjay Sane; Dr. Akash Gulyani; Dr. Arati Ramesh; Mr. H. S. Venkataramana; Mr. Rengasamy; Mr. P.P. Ranjith (Secretary).

## Library

The library provides access to printed resources such as books and journals, as well as electronic journals and online databases, primarily for the use of faculty and staff on campus. The librarian is responsible for growing the library's collection to reflect the interests of the campus academic community. The library staff and trainees help users make best use of these resources.

## Borrowing facilities

Students may check out books or journals during working hours and should sign out the items at the library counter. A maximum of four books and two bound journals may be checked out at any time. Books are issued out for a maximum of two weeks and may be renewed if no reservations on the items are indicated. Bound journals may be issued out for a maximum of two days. The borrower bears responsibility for timely return. Fines will be charged on late return of books and journals. Unbound issues of journals are issued from the library for a maximum of two hours during normal working hours, with the permission of the librarian. Books and journals borrowed from the library may not be taken out of station. Occasionally, the librarian may request the return of an item that has been issued. The minimum period before a return can be requested is five days or a book and one day for a bound journals. Books and journals are placed "on reserve" which restricts their issue, if requested by course instructors.

## Use across other libraries

The library obtains cards or tickets for the use of other libraries in Bangalore such as Indian Institute of Science Library, the British Library, etc. These are distributed by the librarian to users on written request, for limited use. If a user is found to abuse these privileges, they will be revoked. Users from other institution are allowed to use the library on production of a library access card, which will be issued on recommendation from the Dean. External users are not permitted to issue out library items, and are allowed to use the library only during office hours.

## Loss and defacement of books, journals and other library articles

The cost of replacement with an additional 20% handling fee will be charged to the person for loss or damage to the library articles. Book grants may not be used to settle library dues. Any person determined to have defaced or damaged any library item intentionally will have their library privileges revoked for a period of time. Library privileges may be revoked permanently for multiple or serious offences.

## Newly arrived journals, magazines, and newspapers

New items cannot be issued out of the library before a specified period. The period for 'in library use only' will be indicated on each item. This will vary and is determined by the librarian from the general pattern of use and requirements.

## Online access to journals and resources

The library subscribes to many online full-text journals and other digital resources. It regularly adds new online journals and resources to the collection. This service is available to all network users. Please note that due to licensing agreements use is restricted to campus IP addresses only. The list of journals is available on the library webpage. Downloading an entire journal issue in a systematic fashion is strictly prohibited and legally incorrect. This violates the license agreement we have entered with the publishers and jeopardizes the contract. All users must respect the license agreements and copyrights, and make use of these resources fairly. The responsibility for the appropriate use of licensed material lies with the user. The misuse of or unauthorized use of licensed information will result in cancellation of the services.

## Audio-Video Facility

The Library maintains and archives recordings of lectures, colloquia series, conference talks, etc. in DVD format for the use of its members. This collection is to be used only within the library, using the audio and video equipment provided.

## Library access control system

This system is activated after working hours and holidays, including Saturdays and Sundays. Access control cards should be used for both entry and exit as use is recorded for purposes of security. Access control cards are strictly non-transferable.

## Code of conduct

No loud conversations or group discussions; cellphones must be silent; no food or drinks; do not borrow on invalid memberships or someone else's card; do not install personal software on library computers. The library is not responsible for loss of personal items. Do not reshelve books or periodicals; leave them on tables after use, and the library staff will return them to the appropriate location.

## Where to go for help

- Library library@ncbs.res.in
- Librarian, Avinash D. Chinchure avinashdc@ncbs.res.in
- Assistant Librarian, S. Umashashi uma@ncbs.res.in

## Technical and Research Facilities

Research at NCBS and inStem is supported by an array of state-of-the-art analytic instruments and facilities. Many of the campus research facilities are organised under the Centre for Cellular and Molecular Platforms (C-CAMP), which enables both campus and external users to access these resources. Up-to-date information about these facilities and contact details of facility managers will be available on the webpages of NCBS, inStem, and C-CAMP (<https://www.ccamp.res.in>). These include High Throughput Screening (assay development, assay screening); Central Imaging and Flow Facility (confocal, fluorescence, super-resolution, TEM, flow cytometry); Fly Facility (transgenics, screening, maintenance); Next Generation Genomics (genome, transcriptome, exome sequencing, data analysis); Mass Spectrometry (proteomics, metabolomics, glycomics); Protein Technology Core (cloning, expression, purification); Animal Care Facility (mouse, rat, xenopus, zebra fish); Mouse Genome Engineering Facility (transgenic, knock-out, knock-in mice). Each facility has its own operating procedures and health and safety regulations. Please visit the facility websites or contact facility managers if you wish to use any of these resources.

## Student Entitlements

### Salary disbursement

The fellowship is paid on the last working day of the month and directly credited to the student's bank account. Students who are funded by CSIR or other extramural fellowships are responsible for complying with all reporting requirements of their funding agencies. In case these grants have been sanctioned but the funds are delayed, NCS or InStem can provide a salary as an advance, if sanctioned by Head Academics. Students are responsible for any unpaid balance against such advances, and must ensure that the extramural funds are credited back as soon as possible.

### Medical insurance

It is mandatory for all students to subscribe to the Group Medical Insurance Scheme, which will be directly deducted from the Fellowship. The present premium is Rs. 1,400 per year. The policy will cover inpatient treatment in any hospital subject to maximum of Rs. 75,000 per year. The student should inform the Establishment within 24 hours of hospitalization, either by email or phone. The hospital claim forms are available with the Establishment Section. Students carrying the ID card issued by Mediassist Health Care can use the cashless facility at specified hospitals authorized by Mediassist. Please contact the Establishment Section for more details.

**Book grant and contingency fund:** Students on the PhD and Int-PhD programmes as well as students with extramural fellowships draw an annual contingency grant, which can be used for buying books and equipment, paying registration fees, thesis-related work, journal subscriptions, conferences fees, and other research or educational activities. On prior request, the final year contingency may be permitted to be carried forward into the extension period for the sole purpose of meeting thesis expenses. Research Scholars are entitled to a grant of Rs. 32,000 per academic year during their standard tenure. Claims for use of these funds should be submitted to the Accounts Office, along with the relevant bills and the assent of the Thesis Supervisor. Contingency grants are not available to externally-funded PhD or MSc-by-Research students.

**Travel to meetings and workshops:** We encourage students to attend meetings or workshops within India and abroad. You must obtain prior approval for travel from their Thesis Supervisor. You can request an advance on the cost of travel by submitting a TA/DA advance form. The source of funding should be specified on this form. Please keep all travel-related documents, including tickets, boarding passes, and any other receipts. These must be submitted to Accounts within one month of return to process the claim.

### Leave of absence

A student who plans to be absent from work due to travel or for any other reason must submit a leave application in advance. The application must be sanctioned by the Thesis Supervisor and Head Academics. This applies even for short trips away from the Hostel during vacations or weekends, so that the hostel authorities are able to respond effectively in the event of an emergency. Casual leave without pay is permitted for up to 8 days in a calendar year; earned leave can be taken for up to 30 days in a calendar year; maternity leave with pay is for up to 180 days.

### Verifications and certificates

If you need a bonafide certificate or residential proof certificate while applying for a passport, visa, bank account, etc., please contact NCS Mr. Ashok Rao [ashok@ncbs.res.in](mailto:ashok@ncbs.res.in) or InStem [headadm@instem.res.in](mailto:headadm@instem.res.in).

## Hostel Guidelines

Students in the graduate programme are provided accommodation in the hostels. While you may make their own arrangements for accommodation, we recommend that you stay in campus for the first year in the programme. Research Scholars and others with appropriate extramural grants will be paid an HRA allowance if they choose not to use campus housing. From the second year onwards, requests for campus accommodation should be submitted by email to the Hostel by April 15 each year. Allotment of rooms is announced in July.

### Eligibility and priority of allotment

Students whose continue for more than one year beyond the standard tenure will not be eligible for hostel accommodation unless recommended by Head Academics. Students who continue on Bridging Appointments after thesis submission are not provided hostel accommodation.

1. PhD and Int-PhD Research Scholars registered at TIFR or MU.
2. MSc-by-Research students and MSc Wildlife students registered at TIFR.
3. Externally registered PhD students working full-time at NCBS or inStem.
4. Visiting graduate students working on collaborative projects at NCBS or inStem.
5. Graduate students on the first year of extension.
6. JRFs and Project Associates working at NCBS or inStem on grants. (easymotion-prefix)

### Conditions of allotment

Allottees pay a refundable deposit of Rs. 2,500 at the time of occupation, which is refunded when the room is vacated, less any outstanding dues. Allotment and continuation are subject to inspections of the rooms. Rooms are reassigned every year on August 1, linked to the renewal of studentship. An allotment may be terminated with a month's notice. In the event that a student expects to be away from campus for 3 months or longer, the room should be surrendered; on occasion, a room which is vacant for 15 days might be temporarily granted to guests. The License Fee is Rs. 200 per month for a single room plus Rs. 100 per month water tariff; Rs. 100 per month for a shared room plus Rs. 50 per month water tariff; Rs. 25 per day for visiting students up to a period of six months, and thereafter Rs. 40 per day.

### Use of rooms

You can take possession of the room by producing your offer letter or any other official order. You should check the furniture and fixtures at the time of occupation. You can report any problems to the appropriate helpdesk queue. You are responsible for maintenance of the room until you leave, and will be charged for any damage. Pets are not allowed in the hostel or on campus. Be sensitive to other occupants of the hostel. Loud activities are not permitted after 10pm. Keep the common areas clean, use the garbage cans provided in each wing. The hostel has common cooking facilities, do not cook in your room. You may not grant access to your room to any other person when you are absent. You may accommodate a guest with prior permission, for a maximum of 15 days. The guest will be charged Rs. 25 per day. Families and children cannot stay in the hostel. You can surrender your room with one week's notice. You must return all hostel items and pay any dues necessary before reclaiming your deposit.

### Where to go for help

Mr. Shaju Varghese [shaju@ncbs.res.in](mailto:shaju@ncbs.res.in)



## Medical and Counselling Services

### Medical Emergencies

In case of an emergency during office hours (9am – 530pm, Monday – Friday; 11am – 3pm, Saturday) call the medical centre (x6446, x6449, x6450). If an emergency occurs after office hours, call the front desk (Ext: 6001/2 or 23666001/2 off campus). The housing campus (Mandara) has a medical centre in Kepala Block (10am – 2pm, Monday- Friday; tel 67627295). Inform them of your problem and where you are located. The reception will put you in touch with the doctor on duty and dispatch the on-site ambulance when required. In case of an emergency arising while you are outside the campus, please visit Bangalore Baptist Hospital or Columbia Asia directly. You must present your ID card at the time of treatment and inform the Establishment as soon as possible so they can coordinate with the hospital.

### Medical Aid

First-aid kits are available at the security office, at the main reception, and on all floors of the Southern Laboratory Complex. We operate a primary healthcare facility for routine health issues and minor injuries. Students can consult the Campus Medical Officers and be treated at the Campus Medical Centre free of cost. This does not include the cost of medicines. Students can use the outpatient facility at Bangalore Baptist Hospital or at Columbia Asia Hospital with a reference letter from the Campus Medical Officer.

### Counselling services

Counselling services on our campus are provided by an external service provider, Parivarthan <https://www.parivarthan.org>. Any member of our campus can access this service confidentially. Please identify yourself as a member of campus by showing them your ID card. This is exclusively for the purpose of keeping track of the work from our campus and arranging to pay them. The names of those using the service will not be made available to the campus institutions. To use this service, please contact Parivarthan directly using one of the following methods.

#### On site consultations

A staff member from Parivarthan offers campus consultations twice a week (Tue 1030 hrs – 1330 hrs, Thu 1400 hrs – 1700 hrs); please make an appointment by contacting the counsellor B. N Veena [bnveena@yahoo.com](mailto:bnveena@yahoo.com).

#### Telephone consultations

Parivarthan offers a telephone counselling helpline for those who are unable to come in for face-to-face sessions; helpline counsellors are trained to deal with a variety of issues ranging from stress and normal life issues to trauma and mental illness (Phone: 6533 3323, email [yhelpline@gmail.com](mailto:yhelpline@gmail.com)).

Consultations at the Parivarthan offices (Mon – Fri, 1600 hrs – 2200 hrs)

1st Floor, #3310, 8th Cross 13th Main, HAL 2nd Stage Bangalore 560 008 Phone: 2527 3462 or 25298686;  
Email [parivarthanblr@gmail.com](mailto:parivarthanblr@gmail.com)

A guide on what to expect from a counselling service is provided at <https://intranet.ncbs.res.in/files/NCBS-Parivarthan>.

### Where to go for help

The contact details of individual doctors and other medical staff are available on the intranet. For operational details relating to the medical centres (not your own medical issues) please email the coordinator at [medical@ncbs.res.in](mailto:medical@ncbs.res.in). For any assistance or clarification relating to medical insurance, interaction with hospitals etc. please contact the Establishment Section Ext: 6335, [adminhelp@ncbs.res.in](mailto:adminhelp@ncbs.res.in).

## Sports Complex

The sports complex provides free and easy access to sporting and gym facilities to all members of the campus community. It includes a swimming pool, gym, badminton and squash courts, and a table tennis table. There are also football, cricket, tennis, volleyball and basketball courts in the outdoor area. Additional recreational facilities include a foosball table, a carrom board, and a large-screen TV which is very popular during World Cups. The sports complex reception staff are here to assist you. They can issue out towels, swimming gear like kick pads and pool buoys. A first-aid kit and an ambulance are kept available in case of emergencies. As with any good sporting facility, ours requires care and maintenance to function properly. Please ensure that you adhere to the posted guidelines and the instructions of the staff. Rules for each individual sporting section are outlined in the Sports Complex booklet. Please inform us by email if you find anyone violating the guidelines. The names of current Sports Committee members will be displayed on the notice board outside the facility.

### Where to go for help

- Sports Complex [sports@ncbs.res.in](mailto:sports@ncbs.res.in)
- Sports Complex front desk Ext: 6099

## Campus Services

### Access Card

All students are issued an Access Card which allows entry to campus and access to facilities. If you lose your access card it will be reissued for a fee.

### Canteen

Breakfast	0715 - 0920 hrs
Tea	1000 - 1130 hrs
Lunch	1245 - 1345 hrs
Snacks	1500 - 1800 hrs
Dinner	1915 - 2030 hrs

*There is no canteen service after lunch on Sundays.* Lunch is also served in the outdoor canteen at the main entrance. Terrace cafeterias on the first floor of the Eastern Labs and second floor of the Administrative Block 1000 – 1800 Hrs, serving beverages, snacks and packed lunches. A fast food counter operates on the first floor of the main canteen.

### Transport

Shuttle services operating between GKVK, IISc, and the Mandara Campus are available free of cost to students and members of the community. Schedules are posted on the NCBS website and available at the reception.

### Bank

The Central Bank of India operates an extension counter at NCBS on Mondays, Wednesdays and Fridays between noon and 1400 hrs. An ATM is available next to the gate.

## Child care

The Dolna creche is open to babies older than four months, as well as to toddlers and young children. The creche has an experienced and well-trained staff.