

ACADEMIC PROGRAMME COMMITTEE

Academic programme committee specially constituted for the purpose of streamlining the admissions to the doctoral programme, short term trainings, project works as a part of the M.Sc., M.Tech, B.Tech Programmes of colleges/Universities, assist the management of NIIST in the extra mural and HRD activities of the laboratory. The committee in addition to the following mandate, recommends the Director from time to time measures to improve and ensure the quality of the research programmes undertaken by the students in various R & D divisions. APC has the following assigned mandate:

Mandate :

1. To place the project students from other educational institutions/ colleges/ Universities with appropriate R&D group /divisions /sections as and when the requests are received and as per the procedure.
2. To arrange the visits of students to the laboratory on selective basis during various functions.
3. To arrange and organize open days such as National Science Day, National Technology Day, CSIR Foundation Day, NIIST Foundation Day, CSIR programme on Youth for Leadership in Science (CPYLS) and other academic activities assigned by NIIST / CSIR from time to time.
4. To coordinate admission of research scholars for the Ph.D programme, official requirement of the research scholars with respect to Ph.D registration, submission of synopsis/ thesis etc.
5. To assist the management of the Institute in student affairs.
6. To arrange seminars by visiting scientist / Academicians etc.,

ACTIVITIES

ADMISSION TO DOCTORAL PROGRAMMES:

Eligibility:

Category 1

Only students qualified in CSIR/UGC - JRF/Lectureship examinations and having CSIR/UGC fellowship would be admitted to the doctoral programme leading to Ph.D degree and would be allowed to register for Ph.D programme of any Indian universities.

Category 2

Students with more than 85 % (Grade – VERY GOOD) score in Graduate Aptitude Test in Engineering (GATE) examination and joined to any of the R& D projects/programmes having duration of more than 3 years as project assistants would be allowed to register for the Ph. D programme provided the supervising scientist / project leader supports the candidate beyond the duration of the particular project/programme by any other projects under him.

Application Procedure

The candidates seeking admission to Ph.D programme and eligible under category 1 should apply to the Director, NIIST along with supporting documents such as CSIR/UGC NET Fellowship Award Letters, attested copies of the Marks cards, CV etc.

Admission Procedure

The applications if found suitable would be forwarded to the respective Divisions for assessing the suitability of the candidate vis-à-vis mandate of the division. Only selected candidates would be called for the discussion and would be allowed to join for the Ph.D programme in respective divisions. Director, NIIST will have all the powers in the selection and assignment of the candidates to any divisions.

**ADMISSION TO PROJECT WORK AS THE PARTIAL FULFILLMENT OF
B.TECH, M.SC., M.TECH AND MCA PROGRAMMES:**

Induction of the students in few numbers from Universities / colleges for carrying out short term project work in this laboratory will be made based on the requirement of R&D activities of the Institute on case to case basis. However, the number of such admissions which may vary from time to time, will be based only the requirement of the scientists of R&D Division/Sections of the Institute followed by the merit.

Application Procedure

Candidates seeking approval and admission to carry out the project work as a partial fulfillment of above mentioned courses should apply to the Director, NIIST well in advance with the following documents:

1. Detailed Curriculum vitae (CV)
2. Attested Copies of the marks cards upto the last semester/year.
3. Recommendation / Introduction by the HOD/Principal of the college.
4. Duration and likely commencement of the project work at NIIST
5. A request letter by the candidate seeking the placement for the project work.

Only the applications with the above documents received at NIIST before the deadline, would be considered and all the applications without any one of the above enclosures would be rejected and no correspondence will be made with respect to rejected applications.

Period of Project work admissions

Admissions to carry out project work would be held only 4 times in year, viz. 1st January, 1st April, 1st July and 1st October every year. All the students seeking permission to carry out project work in this laboratory may join to any one of the above quarter as mentioned above. NIIST will not entertain the admission of any candidates during the period other than mentioned above.

Last date for application

The last date for the receipt of the applications requesting for permission to carryout the project work in the laboratory would be as below:

- | | | |
|--------------------------|---|---|
| 31 st January | - | for admission to batch commencing from 1 st April. |
| 30 th April | - | for admission to batch commencing from 1 st July |
| 31 st July | - | for admission to batch commencing from 1 st October |
| 31 st October | - | for admission to batch commencing from 1 st January. |

Selection Procedure

Only those applications completed in all respects and relevant enclosures and received by the Director and forwarded to APC before the last date mentioned above would be considered and short listed. The merit list prepared based on the marks obtained in the last semester/year of the PG course would be prepared area wise and sent to respective divisions. Heads of the Divisions in consultation with the other scientists/technical officers , would recommend only those applications to APC based on the merit and other considerations such as educational background of the candidate, facilities available to carry out the project and requirement of such students in the ongoing R & D Programmes and MOU signed if any with the Universities. Only those candidates who have been recommended for the admission by the respective divisions/sections would be intimated through the HOD/Principal of the University/ college by APC for the admission. No correspondence will be made in respect of applications not recommended for the admission.

Project Fee

All the students admitted to the project work should pay the following fee depending on the area and the duration of the project work. The payment should be made in the form of DD drawn in favour of Director, NIIST Trivandrum, payable at Trivandrum. Payment should be made at the time of admission.

Duration of the Project	Area /discipline	Amount (Rs.)
3- 6 months	Biotechnology	5000/-
	All other areas	3000/-
Beyond 6 months	All the areas	6000/-

Note: Students selected for the project work and having their family total income not exceeding Rs. 1250/- per month (Rs. 15000/- per annum) may be exempted from the payment of the above fee. However, candidate seeking the above exemption has to produce without fail, an income certificate issued by the competent revenue authorities at the time of admission. Request for the exemption from the payment of project fee and reimbursement of any fee if paid earlier by the candidate will not be entertained after the admission.

Declaration by the HOD/Principal

The candidate selected for the admission to carry out the project work should come in person and get admitted to the Project work on the date and time fixed and intimated to respective HOD/Principal of the candidate without fail. He/she has to pay the required project fee in the form of DD and also should give a declaration form (supplied by APC) duly filled in and signed by the HOD/Principal of the college/University of the student. Admission will not be made in the absence of the above.

Forfeiture of Allotment

All the students selected for carrying out the project work and intimated for admission should come in person on the date and time fixed and intimated to them without fail. Candidates fail to join without prior approval from APC, on the above date would forfeit the offer of placement.

Terms and conditions

- The placement of the student and the selection of the Research Guide would be based on the sole discretion of the Director/ HODs in the laboratory.
- Student's admission to the project work and their stay in the laboratory is restricted to the time and duration of the project and will not be extended. Additional time if required has to be foreseen in advance and necessary request has to be made to APC through the research supervisor for the extension of the project duration well in advance.
- During their tenure of the project work, candidates have to follow strictly all the rules and regulations, timings of the laboratory. Strict compliance of safety rules by the students inside the laboratory is a must. The laboratory will not take any responsibility for the safety of the students beyond office hours.
- The number of students admitted for the project work is based only on the requirement of R&D sections/Divisions and has no bearing on any quota
- There will be no guide from the University/college for this work. However, there could be co-guide from the department if desired. But this should be informed clearly to NIIST with the name of person in the letter from the HOD/Principal.
- NIIST will have full intellectual property right on the work carried out by the student. However, if a paper is published out of the work, the student(s) name will be considered for the authorship depending up on his/her contribution.

- University/College undertakes the responsibility for any misconduct by the student(s).
- Thesis/dissertation title/cover page will have the title of the work, name of the university where it would be submitted, student's name, his/her registration number (optional), name of NIIST scientist as supervisor, Division/Department where the work is carried out at NIIST and month and year of submission. This pattern has to be followed strictly by all the students irrespective of the guidelines stipulated for the same from the respective University/college.
- Students are required to prepare their thesis in required number of copies and get all the certificates signed in original in all the copies from their Department /college and finally get them signed in original by the research guide at National Institute for Interdisciplinary Science and Technology, Trivandrum. TWO copies of the thesis/dissertation have to be submitted to the Research Guide at NIIST.
- Any violations on the above would be viewed seriously and non compliance by the candidates/colleges/University would result in total rejection of applications from the Department/college in future.

LABORATORY VISITS

APC also coordinates the laboratory visits for the students from the colleges/Universities. However, keeping in view , the ongoing R&D work in the laboratory, laboratory visits by the students/teachers from the colleges/Universities would be entertained ONLY during the OPEN Days being observed by the Institute on the following days every year. However, the visit of the students /teachers on these days can be arranged only on taking prior permission by the respective colleges/Universities from the Director, NIIST, Trivandrum.

Occasion	Date
National Science Day	February 28
National technology Day	May 11
CSIR Foundation Day	September 26
NIIST Foundation Day	October 6

OPEN DAYS

In order to instill a sense of scientific temper, awareness among the public in general and students in particular, the laboratory organize every year the following days which are

significant in the annals of Indian science and technology and also from the point of view of CSIR and NIIST. Academic Programme Committee coordinates all the above four OPEN days and celebrations thereon.

National Science Day

National Science Day would be celebrated every year in the laboratory on 26th February which is a land mark day in the history of Indian Science. It is on this day in 1928, Sir C. V. Raman had discovered Famous RAMAN EFFECT for which he was awarded with a coveted Nobel Prize in Physics in the year 1930. Sir C. V. Raman and his Raman Effect stands tall even today and undoubtedly elevated the Indian Science on par with rest of the world. In commemoration to the great Indian Scientist and his discovery, Govt. of India has declared February 26th as the National Science Day.

NIIST celebrates National Science Day with the OPEN day. Students from schools and colleges would be invited to visit the laboratory during the open day and they would be taken to various advanced scientific facilities / instruments, demonstrations etc., to enable them to have the glimpse of Indian R & D and thereby instill a sense of pride and motivation to undertake science as their future career. National Science Day lecture is also arranged by eminent scientist / researcher during the occasion.

National Technology Day

Govt. of India has declared May 11, as the National Technology Day to mark the triple success of Indian technologies namely, Inaugural flight of Hamsa, Successful flight of prithivi missile and Sensational Nuclear test at Pokhran.

NIIST celebrates the day as the OPEN Day during which laboratory visits of students from different colleges and schools are arranged. The celebration also include arrangement of National Technology Day Lecture by peers in Indian Science and Technology.

CSIR Foundation Day

Being the constituent establishment under Council of Scientific & Industrial Research (CSIR), the laboratory also celebrates every year September 26th as the foundation day of CSIR. The celebration of the above important day in the laboratory shall include, visits of the students/teachers from various colleges /schools, a function to felicitate the CSIR personnel superannuated in the preceding year, distribution of mementoes to the serving CSIR personnel who have completed 25 years of service, distribution of awards to the children of employees who have secured admissions in IITs, IIMs, AIIMS etc., and securing highest marks in science subjects in 12th standard examinations. Foundation Day lecture delivered by renowned experts in Indian science is also arranged during the occasion.

NIIST Foundation Day

October 6th is celebrated every year as NIIST foundation Day. Being observed as OPEN day, the laboratory invites students/teachers from schools and colleges to visit the laboratory on this day. The celebration also includes arrangement of NIIST foundation Day Lecture by eminent scientists/researchers, distribution of awards to the best technology, best publication and the best patent of the year. Employees who have excelled in their work measured in terms of visible outputs are also honored during the occasion.

CPYLS Programme

APC also coordinates and organize the above annual programme of CSIR in the laboratory. The above CSIR Programme on Youth for Leadership in Science (CPYLS) is aimed at inculcating a scientific temper among the bright and younger students and targeted to the students who have just passed their X examination. The objective and scope of the programme are given below:

About CSIR

Established in 1942, CSIR is the largest industrial research & development (R&D) organization in the world devoted to scientific and industrial research and S&T manpower development in India. CSIR's network of 39 laboratories, spread all over India, is engaged in cutting edge research activities covering a wide range of scientific disciplines.

CSIR's creative assets are its 10,000 highly qualified scientists and technologists. CSIR has made immense contributions to the economic and social development of India.

CSIR's contributions to S&T human resource development are immense. Indeed a list of CSIR beneficiaries reads like who's who of Indian science. CSIR is credited with having supported 50,000 research fellows/associates and 10,000 senior research associates so far.

Hitherto, the CSIR schemes catered to post-graduate and PhD students only. CSIR now seeks to enlarge upon the science support base by including school students as well.

Overall Objectives

- The aim of the Scheme is to attract the best young school students towards science through a unique 'hand holding' experience.

- The Scheme aims at encouraging youth to discover science as an exciting, rewarding and fulfilling career.
- The scheme covers students at secondary and tertiary levels.

Support at Senior Secondary School Level – Scheme -I

Objectives

- Expose the young minds to the exciting world of science.
- Help in building up a scientific temper at an early age.
- Instill a sense of pride in the achievements of Indian science.

Operation of the Scheme

Every year, top fifty students at the secondary school examination (X class) from CBSE, ICSE and State Boards will be invited, at CSIR's expense, to visit the nearest CSIR laboratory for 'two Open Days', along with one of their parents/guardian/teacher.

On the two Open Days the laboratories would organize :

- popular science lectures by eminent S&T personages ;
- audio visual presentation about the contributions of eminent scientists and technologists to the world of knowledge, technology and industry;
- demonstration of simple interesting experiments leading to understanding the basic concepts of science ;
- an overview of exciting job opportunities in science;
- a tour of the laboratory .

This would enable them to :

- have glimpse of scientific research being carried out in their specific areas of interest;
- to see the infrastructure , R&D facilities available for carrying out specific research .
- Additionally, top ranking five students in the merit list will be given the facility to visit two additional CSIR laboratories of their choice anywhere in India.
- Among the students who pursue science after class X would be provided support and facilities to do their project work for class XI/XII at one of the CSIR laboratories.
- They will be encouraged to take up projects concerning any problem of their choice. The intention is to be able to relate the teachings in school to the real life applications.
- They will be free to discuss the selection and progress of their project with the scientists of the laboratories and also have the access to the R&D facilities available.

Selection procedure for Scheme – I

This laboratory operates the above scheme – I for the students of Kerala and Lakshadweep. The scheme is open to the students who have passed the X examination under ICSE, CBSE and state syllabus streams.

On receipt of the merit list each from CBSE and ICSE Board for Kerala and Lakshadweep through Human Resources Development Group, CSIR, New Delhi, the laboratory select the students as per the above merit list and communicate to the respective students through their schools. Total number of students selected from all the streams would be decided by the laboratory depending upon the logistic and other infrastructural facilities available in the laboratory. Only the candidates selected based on the merit list made available from HRDG, New Delhi would be invited for the above programme which is held every year for 2 days normally during Christmas vacations.

Support at Undergraduation Level - Scheme -II

Objectives

- The aim is to let young minds feel the thrill and excitement of science by working on a project requiring application and critical appreciation of scientific principles.
- It also aims at active participation in the learning process through experimentation and putting into practice the knowledge acquired in the classrooms.
- The objective is to motivate talented young people to take science as a career.

Operation of the Scheme

- This scheme is available only to those candidates who have attended the CPYLS programme under scheme – I
- Amongst these students who secure over 90% marks in natural science subjects (physics, chemistry, biology and mathematics) in the Senior Secondary Examination and continue to pursue science studies, would be supported for another three years till graduation.
- They would be designated as "CSIR Student Associates" and given the facility to work on a project, in a CSIR laboratory of their interest during their vacations.
- They will be encouraged to associate themselves with some of the actual research activities of the laboratory, use the state of art facilities in the laboratory and interact with top class scientists.
- The project duration would be no more than 14 weeks in a year.
- CSIR would meet the travel expenses and make a provision of hostel accommodation and a studentship of Rs 500 per week.

Selection Procedure for Scheme – II :

The laboratory communicate to all the students who have attended the scheme – I of the above programme 2 years before in the laboratory and seek all the details such as copies of the marks card of +2 examination , the course they have joined after +2 examination.

On receipt of the feed back as above, the APC prepares a list of the eligible candidates (as detailed above) for the above scheme. They would be offered with **CSIR student Associateship** and would be invited to carry out project work in the laboratory in their chosen field in the laboratory.

For further information please Contact:

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