

भारतीय प्रौद्योगिकी संस्थान इंदौर
Indian Institute of Technology Indore



॥ ज्ञानम् सर्वजनहिताय ॥

भारतीय प्रौद्योगिकी संस्थान इन्दौर
Indian Institute of Technology Indore

Ph. D. Programme

Information Brochure
2009-2010

D) Deposits (Refundable) to be paid at the time of admission

1. Institute Security Deposit	1000	1000	1000	00
2. Library Security Deposit	1000	1000	1000	00
*3. Mess Security Deposit	1000	1000	1000	00
Total (D)	3000	3000	3000	00
<hr/>				
Total Fees (A+B+C+D)				
➤ For GN/OBC categories	20,876	20,876	15,876	4900
for SC/ST categories				
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* Students not staying in Hostel are exempted from the payment of Hostel fees.

** Tuition fee likely to be revised.

Non-Sponsored categories:

- (1) Teaching Assistantship (TA) (2) Research Assistantship (RA)
(3) Govt./Sem-Govt. Fellowships awardees (QIP/ UGC/ CSIR/ DAE/ DST/DBT/ NBHM etc.)

@ Sponsored categories: All other categories i.e. SW, EX, SF, CT, TAP, PA, PS, etc.

- External students who have completed the course work and joined the parent organization are required to pay Rs.2500/- as continuation fee (Rs.900/- for SC/ST)
➤ Students who have permitted temporarily withdrawal from the programme are required to pay Rs.1000/- as continuation fee per semester.

Fees (except deposits) are not refundable under any circumstances.

In addition to the above, refundable Mess advance of Rs. 2,500/- and Semester Mess Advance of Rs. 10,000/- are also required to be paid by the candidate opting to stay in the institute hostel.

Fees payable in every subsequent semester by External Candidate: Rs.5000/- for General and OBC Category and Rs.2500/- for Category (SC/ST).

Candidates from reserved categories (SC/ST) are fully exempted from paying the Tuition Fees.

Important Information:

➤ PLEASE READ THE INSTRUCTIONS GIVEN IN THE BROCHURE CAREFULLY BEFORE YOU FILL IN THE APPLICATION FORM.

➤ Candidates applying for Ph.D. Programme can give preference for **THREE** disciplines in one application form. For further choices, if any, additional forms may be used. **Application forms for admission to Ph.D. Programme can be obtained and submitted throughout the year; however, such applications will be processed twice in a year {i.e. Autumn Semester (July) and Spring Semester (January)}.**

➤ Along with the Application Form, candidates are provided with the following:

- a) Information Brochure b) Statement of Purpose(SoP)Form and
c) Forms for Recommendations (Two)

➤ Application Form and Information Brochure, Statement of Purpose (SoP), and Forms for Recommendations are also available on our website.

➤ Please mail / submit the duly completed Application Form (in a big size envelope 27 cm x 20 cm without folding the application form and attached documents) to the following address:

O. S. D. IIT Indore Cell, 3rd Floor, Main Building , IIT Bombay

Powai, Mumbai, 400076

anc @ iitb.ac.in

Website: http://www.iitb.ac.in/IIT_INDORE

E-Mail address: iitindore@gmail.com

Tel. No. : 022-2576 4800 /4801 Fax : 022 - 2576 4802

IMPORTANT NOTE :

Ragging is not allowed at IIT Indore, and is strictly prohibited. As per the directives received from the Hon'ble Supreme Court of India, the student (s) involved in ragging shall be given liberty to explain, and if his/ her explanation is not found satisfactory, the Institute authority would expel him/her from the institution.

Appendix V Fees, Deposits and Hostel Rent

Sr. No.	Particulars	Fee payable (Rs.)			Institute Staff
		GN/OBC Non-spons. category#	Spons. Category@	SC/ST	
A) One time payment at the time of Admission					
a.1.	Admission Fee	1000	1000	1000	1000
2.	Grade Card	00	00	00	00
3.	Medical Examination	100	100	100	00
b.1.	Provisional Certificate	100	100	100	100
2.	Student Welfare Fund	500	500	500	500
3.	Modernisation	1000	1000	1000	1000
4.	Identity Card	250	250	250	00
5.	Courses of Study Bulletin	100	100	100	100
6.	Institute Day Celebration	00	00	00	00
7.	Valedictory Function Fee	200	200	200	200
8.	Thesis Fee	950	950	950	950
Total (A)		4200	4200	4200	3850
B) Per Semester Fees					
a.1.	Tuition Fee - Statutory Fees	5000	** 5000	00	00
2.	Examination Fee	350	350	350	350
3.	Registration Fee	200	200	200	200
4.	Gymkhana Fee	500	500	500	00
* 5.	Hostel Seat Rent	500	500	500	00
* 6.	Elect. & Water Charges	2000	2000	2000	00
b.1.	Medical Fee	500	500	500	00
2.	Student Benevolent Fund	500	500	500	500
* 3.	Hostel Establ. Charges	1000	1000	1000	00
4.	Medical Fund	00	00	00	00
* 5.	Contribution to Hostel Subsidy	3000	3000	3000	00
6.	Internet Fee	00	00	00	00
* 7.	Hostel Maint. Fees	00	00	00	00
Total (B)		13,550	13,550	8550	1050
C) Annual Med. Insu. Premium (once in a year)					
		126	126	126	00

Appendix III

Sponsorship Certificate for External Registration

(This should be typed on a letter head of the Sponsoring Organization)

1. Name of the sponsoring organization : _____
2. Address : _____
3. Present designation of the applicant : _____
4. Present status of the applicant: _____
(Permanent/Quasi Permanent/Temporary)
5. Division where research work is proposed to be done: _____
6. Name of supervisor from the sponsoring organization: _____

(Bio-data of supervisor to be enclosed giving details of designation, qualification, research experience, etc.)

7. Details of facilities relevant to the research problem, which will be made available to the candidate by the organization.
8. Statement of External Supervisor.

If Shri / Kum. / Smt. _____ is registered for the doctorate degree I agree to act as his/ her research supervisor jointly with the research supervisor form the Institute.

Signature of External Supervisor

If Shri / Kum. / Smt. _____ is admitted to the Ph.D. programme, we shall allow him/ her to undergo the programme of studies and also to fulfill the residential requirement of the Institute, as per rules.

During the period of Doctoral programme the candidate will be permitted to carry out his / her research work at our laboratories / organization and will be given the required facilities.

We also give our consent to _____ of our organization to supervise the Ph.D. Project, jointly with Dr. / Prof. _____ of IIT Indore

Signature and Seal of the Sponsoring Authority

Appendix IV

No Objection Certificate from University for College Teacher Category.

(This should be typed on a letterhead of the Institution/University)

Dear Sir,

This is to certify that the University has no objection to sponsor the candidature of Shri / Ms _____, who is working as _____ in the _____ College, to join the Ph.D. Programme at IIT Indore, under College Teacher Category.

Signature and Seal of the Head of the University/ Institution.

[Bio-data of External Supervisor (which is optional) to be enclosed giving details of designation, qualification, research experience, etc]

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14. APPENDIX

Appendix I

Sponsorship Letter for Full-Time Candidates

(This should be typed on letterhead of the sponsoring organization)

To

The Dean (AP/SA)
Indian Institute of Technology Indore
IITInd Cell at IIT Bombay,
Powai, Mumbai – 400 076.

Sub: Sponsoring of an Employee for Ph.D. Programme

Dear Sir,

We hereby sponsor the candidature of _____ who is an employee in our organization, for joining Ph.D. programme in _____ at your Institute as a FULL-TIME candidate.

We shall bear the total expenses of his/her studies. We shall fully relieve him/her of his/her duties in the organization during the entire period of the Ph.D. programme to enable him/her to devote full time to the studies.

Signature and seal of the Sponsoring Authority

Appendix II

Employer's Letter in case of Candidates Joining on Study Leave

(This should be typed on a letter head of the Institution)

To

The Dean (AP/SA)
Indian Institute of Technology Indore
IITInd Cell at IIT Bombay,
Powai, Mumbai – 400 076.

Sub: Relieving an Employee on Study Leave

Dear Sir,

We hereby relieve Shri / Smt. / Kum. _____ an employee of this Institute on full / half / no pay leave for joining Ph.D. programme at IIT Gandhinagar, for a period of _____ years. (at least three years)

Signature of Head of the Institute and seal of the Institution

RECOMMENDATION LETTERS

Two recommendations are required from the people who know your Academic and Professional performance and achievements. The person giving recommendation may be from your College/ University or from Organization where you have worked.

Please handover the format for recommendation and a labeled envelope to the recommender. He/She will send his/her comments about your academic and professional performance in a sealed cover directly to the Dean (AP/SA), C/o IIT Indore Cell @ IIT Bombay, Powai, Mumbai – 400 076, on or before 16th December, 2009.

Candidate can submit as many forms as he / she wishes.

Candidates should complete the Application Form in all respects. **Incomplete Application Forms will be rejected.**

Form should be filled in neatly and clearly.

OBC/ SC / ST / PC candidates are requested to attach Caste / Tribe / Disability certificate along with the Application Form.

GENERAL

1) THE INSTITUTE

Indian Institute of Technology Indore (IITInd), in MP, is one of the new IITs established recently. IITInd started functioning with sanctioned intake of 120 students through JEE 2009. Initially three engineering disciplines viz. Computer Science Engineering, Electrical Engineering and Mechanical Engineering have been started. Temporarily the Institute is functioning from the Institute of Engineering & Technology (IET), Khandwa Road, MP – 452017. IIT Bombay has been identified as the mentoring institution for IITInd. .

2) SOME IMPORTANT FAQs FOR STUDENTS

- Q.** Where the IET, temporarily housing IIT Indore is located?
- A.** The Institute of Engineering & Technology temporarily housing IIT Indore is located at Khandwa Road, approximately 10 km from Indore Airport and 7 km from Indore Railway Station.
- Q.** How does one reach IET from Indore airport or railway Station?
- A.** Taxi, Auto Rickshaw, City Bus facility is available. Typical fare from Indore railway station to IET by Auto Rickshaw is Rs. 70 to Rs. 80.
- Q.** How far are facilities like a post office and banks from the College?
- A.** A post office is located within walking distance from the college. There are several banks within half a kilometer radius from the college.
- Q.** Will there be Internet facility in the temporary premises? What about computer terminals?
- A.** Yes, adequate Internet facility will be available. There will be several terminals and a computer laboratory facilities operating within the premises.
- Q.** What is the climate like in Indore?
- A.** Indore has generally a dry climate apart from the monsoon months of June to September. March to June are hot summer days with average maximum temperature of about 36 degree Celsius while the months of November to February are winter with temperature ranging between 15- 25 degree Celsius, which can occasionally drop to 5 degree Celsius.

ACADEMICS

- Q.** In what way is IIT Bombay associated with IIT Indore?
- A.** IIT Ind is being mentored by IIT Bombay. Each of the new IITs that are being established is to be mentored by an existing IIT. Initially, IIT Bombay will be responsible for developing high quality academic programmes of international standard.

- Q. Do we have faculty to teach?
- A. Several faculty members have already been recruited and others likely to join the Institute by 2009-10 academic session. The Undergraduate academic programmes are being conducted by the new faculty and by deputed faculty members from IIT Bombay.
- Q. What about laboratories?
- A. The new faculty are in the process of setting up laboratories and research programmes. Teaching laboratories for Undergraduate and Post-graduate programmes are being set up as required.
- Q. Will there be a library?
- A. A library has been set up with books required as texts and references. Efforts are being made that the Central Library of IIT Indore join INDEST (Indian National Digital-Library of Engineering, Science & Technology). Necessary steps are in progress for online access to research journals and other library facilities.

LIVING

- Q. What about hostel facilities?
- A. Students are being provided accommodation in student's hostel at peace point colony, Limbodi gram, Khandwa Road, Indore.
- Q. Is there accommodation for girl students?
- A. Yes. Separate accommodation for girl students is also available.
- Q. What is the arrangement for food?
- A. Mess facility in the Hostel premises for IIT Indore students is available.
- Q. What will be the living expenditure?
- A. The expenditure pattern is similar to that of other big cities. Apart from the Institute fees which are payable every semester, the anticipated expense per month may be about Rs.3000/- per month.
- Q. Are there recreational facilities available in the Institute?
- A. Yes, sports facilities are available. Those interested in outdoor games can use the grounds of IIT Indore, for the same. From time to time cultural programmes, discussions and debates are also organized.
- Q. What about medical facilities?
- A. Primary medical facilities through OPD is available. Health insurance (on payment) to all students for their medical needs is offered.

3) Ph.D. PROGRAMME

The academic programme leading to the Ph.D. degree is broad-based and involves a minimum course credit requirement and research thesis. Interdisciplinary work through a joint system of supervision is also encouraged and interdepartmental group activities. The presence of a

- iii. B.Tech./M.Tech. degree in other branches of Engineering / Technology with an outstanding academic record may also be considered for research areas consistent with their academic background and special interests of the Department.

Candidates with Bachelors degree in engineering must have a valid GATE score to become eligible for the Teaching / Research Assistantship provided by the Institute.

7. PHYSICS

{PH}

ELIGIBILITY FOR ADMISSION

First Class or 60% marks (55% for SC / ST) in :

- M.Sc. or equivalent degree in Physics / Chemistry / Mathematics. or
- B.Tech. or equivalent degree in Aerospace Engineering / Chemical Engineering / Civil Engineering / Electrical Engineering / Mechanical Engineering / Metallurgical Engineering / Computer Science / Engineering Physics.

Candidates with Bachelors degree in engineering or masters' degree in science must have a valid GATE score to become eligible for the Teaching / Research Assistantship provided by the Institute.

13. APPLICATION PROCEDURE

Cost of application is Rs.300/- for General and PC (Physically Challenged) candidates and Rs.150/- for SC/ST candidates to be paid by the Demand Draft drawn in favour of "Registrar, IITBombay"

Along with the Application Form you are provided with the following:

- Information Brochure.
- Statement of Purpose Form.
- Forms for Recommendations. (Two)

After carefully reading the instructions given in the Brochure, fill in the Application Form in all respect. You may apply for as many disciplines as you wish. **However you can write maximum three disciplines in one form and for rest applicant can use another form by paying separately.**

Please fill in the Application Form completely and then take as many photo copies of the Application Form as per the number of disciplines applied for.

STATEMENT OF PURPOSE

Statement of Purpose (SoP) is your opportunity to share with the Admission Committee your motivation and preparation for the Doctoral studies at IIT Indore.

Please fill in the format provided to you along with Application Form and attach the same.

The Application Form (in 27 cm x 20 cm size envelope without folding) along with the photocopies, and Statement of Purpose should be mailed to **O. S. D., IIT Indore Cell, 3rd floor, Main Building, IIT Bombay, Powai, Mumbai - 400 076**. The Application Form must reach on or before 16th Dec., 2009.

3. ELECTRICAL ENGINEERING {EE}

ELIGIBILITY FOR ADMISSION

First Class or 60% marks (55% for SC / ST) in:

- (i) B.E. / B.Tech. / M.E. / M.Tech. or equivalent degree in Computer Science, Computer Science & Engineering, Computer Engineering, Electrical Engineering, Electronics Engineering, Engineering Physics, Telecommunication Engineering, Instrumentation Engineering, Biomedical Engineering. Such candidates are eligible for research areas consistent with their academic background and special interests OR
- (ii) Master of Science in Mathematics, Physics, Electronics with an interest in Electrical Engineering Sciences.

Candidates with Bachelors degree in engineering or masters' degree in science must have a valid GATE score to become eligible for the Teaching / Research Assistantship provided by the Institute.

4. HUMANITIES AND SOCIAL SCIENCES {HS}

ELIGIBILITY FOR ADMISSION

First class or 60% marks (55% for SC / ST) or equivalent letter grade in:

- i. M.A. / M.Com. or equivalent degree. or
- ii. Master's degree in Science / Graduate Degree in Engineering / Technology may be considered for research areas consistent with the academic background and special interests. or
- iii. M.Phil. degree in any of the disciplines, pertaining to the research area of the faculty member(s). or in any allied subjects or in "Humanities and Social Sciences with specialization in Planning and Development" awarded by IIT Bombay.

5. MATHEMATICS {MA}

ELIGIBILITY FOR ADMISSION

First Class or 60% marks (55% for SC / ST) in :

- i. M.A. / M.Sc. in Mathematics / Statistics / Computer Science or
- ii. M.Stat.

Candidates with masters' degree in Arts/science must have a valid GATE score to become eligible for the Teaching / Research Assistantship provided by the Institute.

6. MECHANICAL ENGINEERING {ME}

ELIGIBILITY FOR ADMISSION

- i. B.Tech. / M.Tech. or equivalent degree in Mechanical Engineering with first class or 60% marks (55% for SC / ST) at UG & PG levels OR
- ii. B.Tech. / M.Tech. degree or equivalent in Production Engineering / Industrial Engineering / Aerospace Engineering with first class or 60% marks (55% for SC / ST) at UG & PG levels may be considered OR

strong research oriented faculty provides opportunity for excellent research training. The Institute aim to undertake sponsored research and development projects from industrial and other organizations in public as well as private sector. Currently required teaching laboratories have only been set up. Research laboratories are yet to be set up. In the meanwhile, Ph.D. Programme will be conducted with the help of IIT Bombay. To begin with it is planned to offer Ph.D. Studies in the following disciplines: Chemistry, Computer Science and Engineering, Electrical Engineering, Humanities and Social Sciences, Mathematics, Mechanical Engineering and Physics.

The Institute is in the process of recruiting faculty members in these areas and expects to have required research supervisors well in time. However, in case of non availability of research supervisors in time in any of the disciplines, that programme may not begin from the Academic year 2009-10.

4) MINIMUM QUALIFICATIONS FOR ADMISSION

One of the following in appropriate areas:

- 1) First class or equivalent Master's Degree in Engineering / Technology (55% for SC/ST)
- 2) A First class Master's degree in Science (55% for SC/ST) or a first class Bachelor's degree in Engineering / Technology (55% for SC/ST). Candidates meeting this requirement must also fulfill one of the following additional requirements :
 - Valid GATE score
 - CSIR / UGC / NBHM / DBT award
 - Minimum 2 years of professional work experience.

Additionally, there may be requirements of individual disciplines.

5) REQUIREMENTS FOR TA/RAship :

Candidates with Master's Degree in Engineering / Technology are eligible for TA/RAship. Candidates without Master's Degree in Engineering / Technology require either a valid GATE score or CSIR / UGC / NBHM / NBT award to be considered for TA / RA ship.

Candidates having B.Tech. degree from IIT with CGPA / PCI score of 8.0/10.0 are exempted from the requirement of GATE clearance. They are admitted to Ph.D. programme through normal procedure for selection of candidates for TA positions, as per rule.

Humanities & Social Sciences:

First class or 60% marks (55% for SC / ST) or equivalent letter grade in:

- i) M.A. / M.Com. or equivalent degree. OR
- ii) Master's degree in Science / Graduate Degree in Engineering / Technology may be considered for research areas consistent with the academic background and special interests OR
- iii) M.Phil. degree in any of the disciplines, pertaining to the research area of faculty or in any allied subjects or in "Humanities and Social Sciences with specialization in Planning and Development" awarded by IIT Bombay.

6) DURATION / FELLOWSHIP AND CATEGORIES OF Ph.D. CANDIDATES

Duration of the programme : Minimum 2 yrs. from the date of registration (3 yrs. for External candidates) and maximum 6 yrs.

FELLOWSHIP

Fellowships will be payable for duration fixed by the MHRD or date of submission of thesis, whichever is earlier.

The Institute may admit Ph.D. candidates under the following categories:

6.1. Full-time Research Scholar:

- i. Institute Research Scholars with Teaching Assistant-TA
- ii. Govt. / Semi Govt. Fellowship Awardees (F/A) (QIP, CSIR, UGC, DAE, DST, DBT, NBHM, etc.)
- iii. Sponsored candidates(SW)
- iv. Self-financed (Indian/Foreign)/Study Leave (SF)
- v. Indian Council for Cultural Relations (ICCR) Awardees (Foreign Students)

6.2. Part-time Research Scholar:

- i. Institute Faculty / Staff (IS)
- ii. Project Staff (PS)
- iii. Research Assistants (RA)
- iv. External candidates (Sponsored) (EX)
- v. Candidates from Colleges / Educational Institutes (CT)

FULL-TIME RESEARCH SCHOLAR

6.1.1 Institute Research Scholars (Teaching Assistants –TA):

Students under this category are entitled for Institute Teaching Assistantship. (Please refer Item No. 9 for financial support)

6.1.2 Govt./ Semi Govt. Fellowship Awardees (QIP, CSIR, UGC, DAE, DST, DBT, NBHM, etc.)

These candidates are financially supported under various Govt. / Semi Govt. schemes.

The admission procedure and other requirements are same as applicable to Institute Research Scholars.

6.1.3 Sponsored candidates (SW):

These candidates are sponsored by recognized R&D organization for doing research work in the Institute on full time basis. Candidates are expected to be released for full time research work at the Institute for a minimum period of three years. **They will not receive any financial support from the Institute.** Sponsorship letter (Appendix I) should be attached to the Application Form.

The period of validity of Ph.D. registration for all candidates is six years from the date of confirmation of registration. (Registration is confirmed as per rules, after successfully completion of course credit requirements).

11) SUBMISSION OF THESIS AND AWARD OF DEGREE

Subject to fulfilling the course credit requirements and other conditions as may be laid down from time to time, the candidate may submit the Ph.D. thesis after two years from the date of registration (3 years for external candidates).

The thesis is examined by two referees from outside the Institute. The Academic Council examines the reports of the referees and on acceptance of the thesis, appoints a Board of Examiners to conduct a viva-voce examination at which a candidate is required to defend the thesis.

On the basis of the report of the Board of Examiners, the Academic Council decides the student's eligibility for award of the degree of Doctor of Philosophy.

12) DISCIPLINE WISE ELIGIBILITY FOR ADMISSION

In addition to the eligibility requirements given in 4 above, following are the eligibility requirements for admission for each discipline.

1. CHEMISTRY {CH}

ELIGIBILITY FOR ADMISSION

First Class or 60% marks (55% for SC / ST) in :

M.Sc. or equivalent degree in Chemistry / Physics / Biochemistry / Life Sciences / Pharmacy / Materials Science / Biotechnology.

Candidates with M. Sc. degree must have a valid GATE score to become eligible for the Teaching / Research Assistantship provided by the Institute.

2. COMPUTER SCIENCE AND ENGINEERING {CS}

ELIGIBILITY FOR ADMISSION

First Class or 60% marks (55% for SC / ST) in:

B.E. / B.Tech or M.E. / M.Tech or M.Sc. / MCA or an equivalent degree from a recognized university.

Candidates without a masters' degree in engineering are required to have a valid GATE score in order to be eligible for the Teaching / Research Assistantship provided by the Institute.

Eligible candidates will be called for a written test and interview. The written test will ascertain the mathematical, programming, logical and general aptitude of the candidates.

Candidates who are admitted to the Ph.D. programme will be required to pass a "qualifying" exam to continue to stay in the programme. Depending on the candidate's academic background, this will be given six months to one year after they join. Details regarding this examination can be found at <http://www.cse.iitb.ac.in/phdqualifier>.

9.1.3 Management students with M.B.A. qualification with Science /Commerce background will be considered for monthly assistantships of Rs. 12,000/- for first 2 years and @ enhanced rate of Rs.14,000/- for remaining three years.

9.1.4 The assistantship is payable for maximum period of 5 years for candidates with B.E./ B.Tech./ M.Sc. as qualifying degree & maximum period of 4 years for candidates with M.E. / M.Tech. as qualifying degree or date of submission of thesis, whichever is earlier.

9.1.5 To get Teaching Assistantship, the students concerned must assist in teaching or research work, as assigned by the Institute, **to the extent of 8 hours of work per week.**

9.2 Institute Research Assistantship (RA):

(On roll employees of any organizations with or without pay are not eligible for admission under this category).

9.2.1 Students with B.E. / B.Tech. / M.Sc. or equivalent qualification and valid GATE / CSIR/ UGC/NBHM / DBT etc. (JRF ship) offer will only be considered for Assistantship.

9.2.2 The amount of monthly Assistantship for students who have B.E./ B.Tech./ M.Sc. or equivalent qualifications: Rs. 14,000/- for first two years and Rs. 16,000/- for next three years. The amount of assistantship for student who have M.E. /M.Tech. or equivalent qualification: Rs.16,000/- for first two years & Rs. 17,000/- for next three years.

9.2.3 The assistantship is payable for maximum period of 5 years (irrespective of qualifying degree) or date of submission of thesis, whichever is earlier.

9.2.4 These Research Assistants (RA) have to look after the laboratories and also assist in teaching or research work or other work assigned by the competent authorities of the Institute. **Thee RAs are required to work for about 16-20 hours a week. They have to complete the Ph.D. programme in five years.**

The continuation of the assistantship (TA/RA) will be subject to satisfactory performance of the duties assigned by the institute and satisfactory academic performance.

As per MHRD directives, the employees of any organizations undergoing Ph.D. / Post-Graduate programmes by availing study leave with or without pay are not eligible for Teaching/Research Assistantships. Such candidates, if found suitable, will have to complete their programme as Self Finance / Sponsored full time or part time, as the case may be.

Students getting assistantships (TA/RA) from the Institute can join projects sponsored by external agencies like Aeronautics Research & Development Board (ARDB), Department of Science & Technology (DST), and Council for Scientific & Industrial Research (CSIR), etc. and obtain corresponding fellowships in lieu of TA/RA ship.

10) REGISTRATION FOR THE Ph.D. DEGREE

After a candidate has been admitted to the Institute, he/she has to make an application on a prescribed form for registration for the Ph.D. degree. This application will be considered by the Programmes Committee (PGC), which will make appropriate recommendations to the Academic Council regarding (a) the course work prescribed for the candidate and (b) the date of registration.

6.1.4 Self Financed (Indian / Foreign) / Study Leave (SF):

a) **Indian:** This category refers to persons with experience and with good track record to join the doctoral programme. They are admitted along with the regular research students through the usual admission procedure but **they would not get any financial support from the Institute. This is Non-residential student category and they will not be provided hostel accommodation on campus.** If admitted, these students have to complete their programme within prescribed time without any financial support from the Institute.

b) **Foreign:** These students are admitted through Embassy of the respective Govt. after getting approval from the Ministry of External Affairs and no objection certificate from Ministry of Human Resources Development, Department of Education, Govt. of India.

c) **Study Leave:** This category refers to candidates who are released from Governmental or educational institutions on study leave for a period not less than three years for doing research work at the Institute. Employer's letter (Appendix II) should be produced at the time of joining, if selected.

6.1.5 Indian Council for Cultural Relations (ICCR) Awardees (Foreign Nationals) (FN):

These students are sponsored by their Governments and awarded scholarship by them. They should apply for admission through Indian Embassy in their country.

PART-TIME RESEARCH SCHOLAR

6.2.1 Institute Faculty / Staff (IS):

(only for permanent staff members of the Institute)

This category refers to candidates who are permanent employees of the Institute with more than 2 years of service left to their retirement are admitted to the Ph.D. Programme.

6.2.2 Project Staff (PS):

(only for project staff members of the Institute)

This category refers to candidates who are working on various Projects undertaken by the Institute and admitted to the Ph.D. programme, if the duration of the Project at the time of admission is around 3 years.

6.2.3 Research Assistantship (RA):

Depending upon the requirements, each discipline may induct **one** Research Assistant every year.

Students under this category are entitled for Institute Research Assistantship. *(Please refer Item No. 9 for financial support)*

6.2.4 External Candidates (Sponsored) (EX):

After fulfilling one semester (M.Tech. / M.E. / equivalent) or two semesters (B.E. / B.Tech. / M.Sc. or equivalent) of residential requirement at the Institute, these candidates will be allowed to register for Ph.D. with a supervisor from the Institute (Internal) and other from their parent organization (External) where they will be doing the research work. Sponsorship certificate from the organization (Appendix III) must be attached, to the application form.

6.2.5 Candidates from Colleges / Educational Institutes (CT):

a) They are carrying-out Research work during week-ends, holidays and vacations, at the Institute premises.

b) After fulfilling one (M.Tech. / M.E. /equivalent) or two semesters (B.E. / B.Tech. / M.Sc. or equivalent) of residential requirement at the Institute, these candidates will be allowed to register for Ph.D. with a supervisor from the Institute (Internal) and other from their parent organization (External) which is optional based on recommendations of the supervisor and respective Programme Committee (PGC). Sponsoring certificate from the organization (Appendix-III) must be attached to the application form.

Candidates admitted under this category will be treated on par with Self-finance category as far as payment of fees and deposits are concerned.

c) Place of work will be the IITIND premises even though candidate may be carrying out part of work at their College/Institute. These candidates are required to be available to the Supervisor (Internal) during week-ends, holidays and vacations.

7) ADMISSION PROCEDURE

7.1 Admission is offered on the basis of an interview held usually a month before the commencement of the semester for which admission is sought. The interview may be supplemented by a written test, if necessary.

Regular candidates called for the Test / Interview under Teaching Assistantship (TA) category will only be paid to and fro single second class railway fare by the shortest route from their place of residence to the Institute / venue of the Test / Interview. They have to produce evidence (railway ticket) in support of their claim.

Other category candidates are NOT eligible for Traveling Allowance.

7.2 Admission of External candidate (Sponsored) (EX):

The candidates desirous of pursuing Ph.D. programme while in employment should apply for admission as external candidates. These applications should be made at the same time prescribed in the advertisement for regular candidates. **The minimum qualifications and other eligibility criteria for admission are the same as for regular full time students.** It should be noted that the Ph.D. programme of this Institute will be the same for both, for a regular (TA) students as well as for an external candidates. However, the following additional conditions are to be noted / fulfilled by the external candidates.

7.2.1 The Institute will decide the competence of these candidates along with the regular candidates.

7.2.2 The following certificates must be submitted by the candidate along with the application form.

a) Sponsorship certificate from the organization in which he / she is employed, identifying the supervisors (internal and external) and giving an undertaking that the candidate would be released from his / her normal duties to fulfill the residential requirements. The prescribed format for the certificate is given in Appendix-III.

b) Details of facilities relevant to the research programme available in the organization, duly certified by the sponsoring authority.

c) A certificate stating that these facilities will be made available to the candidate by the organization.

7.2.3 The candidate is required to be in residence at the Institute during the first semester (second semester, if required) of his Ph.D. programme.

7.2.4 To promote interaction and association of the Institute Faculty and the external organization concerned, meeting between the two supervisors (internal and external) should be arranged at least once in a year in the Institute or in the sponsoring organization to ensure a continuous dialogue and participation in the joint supervision programme. These meetings could also be arranged during the stay of the candidate as mentioned in 7.2.3 above.

7.2.5 The Ph.D. registration of an external candidate would be reviewed at the end of each year from the date of registration in terms of his progress in courses / seminars / approved research programme by a Research Progress Committee (RPC) nominated by the concerned programme Committee (PGC).

7.2.6 The facilities of external registration are for those who are working in well-equipped scientific institutions, laboratories, R&D establishments and industrial organizations engaged in research based activities.

7.2.7 Persons working in colleges / universities are eligible for registration as external candidates, provided he / she fulfills the requirements stated under 7.2.1 to 7.2.3 above and produces a letter from the university (as in Appendix IV) stating that the university has no objection for IIT Indore awarding the Ph.D. degree.

7.2.8 For fulfilling the residential requirements during the first semester, a candidate will have to produce a certificate from his / her employer that he / she has been fully relieved from normal duties during the semester(s) to complete the residential requirement at IIT IND. **This certificate is to be produced at the time of joining the programme.**

8) PAYMENT OF FEES AND DEPOSITS

Various fees and deposits for the programme are given in Appendix V.

9) FINANCIAL SUPPORT

Students joining Ph.D. programme will be considered for Teaching / Research Assistantship based on the following norms:

9.1 Institute Teaching Assistantship (TA):

(On roll employees of any organizations with or without pay, are not eligible for admission under this category).

9.1.1 Those students having B.E. / B.Tech. / B.Arch / M.Phil. / B.Sc. (Engg) / M.Sc. / M.A. / M.Com. or equivalent and who have either a valid GATE or National Level test-UGC / CSIR / NBHM / DBT etc. (JRF ship) will be considered for monthly assistantship of Rs. 12,000/- for first 2 years and @ enhanced rate of Rs. 14,000/- for remaining 3 years.

9.1.2 Those student having M.Tech. / M.E. / M.Arch / M.Sc.(Engg) or equivalent/ M.B.B.S / MD / MS and Management students with M.B.A. qualification with Engineering / Technical background will be considered for monthly assistantships of Rs. 14000/- for first 2 years and @ enhanced rate of Rs. 15,000/- for remaining two years.