

Ph.D. Admission 2020-21

I University will make admission in PhD program in the following streams/discipline for the academic session 2020-21 against vacant slots under **AICTE Doctoral Fellowship (ADF)** at I.K. Gujral Punjab Technical University, Main Campus:

AICTE Doctoral Fellowship (ADF) at I.K. Gujral Punjab Technical University, Main Campus			
Sr. No.	Faculty/ Stream	Department/ Discipline	Vacant Seats for session 2020-21
1.	Engineering & Technology	Electronics & Comm. Engg.	05
2.	Engineering & Technology	Civil Engineering	
3.	Engineering & Technology	Computer Science and Engineering	
4.	Engineering & Technology	Mechanical Engineering	
5.	Engineering & Technology	Electrical Engineering	

The detailed criteria for the award of ADF Fellowship is as under:

- a)** The fellowship/HRA/contingency will be granted to research scholars admitted in the Technical Universities in the identified thrust areas of the ADF scheme.
- b)** Technical Universities will admit candidates in their research programme as per their procedure following minimum eligibility criteria as prescribed by AICTE.
- c)** The candidate must have secured minimum cumulative grade point average (CGPA) of 7.5 on the scale of 10 (or minimum 75% marks) or equivalent at both Bachelors and Masters. In addition to above, the candidate should have qualified GATE/GPAT/NET during the last 5 years. For SC/ST/PH candidates, CGPA requirement will be 7.0 on the scale of 10 (or 70% marks) or equivalent.
- d)** The candidate should be less than 30 years of age as on date of admission in respective Technical University. However, age relaxation of 5 years would be applicable to candidates belonging to SC/ST, women and physically challenged category in succession.

The eligible candidate can apply **online through web portal <https://campuses.ptu.ac.in>** for Ph.D. Admission.

Note: 1. Do not send hard copy of application form or other documents to IKGPTU by post. The downloaded application form, original documents of eligibility and supporting documents of test exemption will be verified at the time of interview.
2. PhD Course work will be of 15 credits and are to be run in the main Campus of IKGPTU, Kapurthala on regular mode (Five days in week).
3. For admission under AICTE Doctoral Fellowship (ADF), eligibility details i.e. age/ qualification etc. refer AICTE ADF Guidelines under heading "**AICTE DOCTORAL FELLOWSHIP (ADF)**" appended below in the last of this document.

- II** University will make admission in PhD program in the following streams/discipline for the academic session 2020-21 against vacant slots under **JRF/SRF (Campus program)** and **without fellowship** :

II (a) Junior Research Fellow (JRF) at I.K. Gujral Punjab Technical University, Main Campus			
Sr. No.	Faculty/ Stream	Department/ Discipline	Vacant Seats for session 2020-21
1.	Management Studies	Management	07

II (b) I.K. Gujral Punjab Technical University and affiliated Colleges-Supervisor			
Sr. No.	Faculty/ Stream	Department/ Discipline	Vacant Seats for session 2020-21
1.	Engineering & Technology	Electronics & Comm. Engg.	17
2.	Engineering & Technology	Civil Engineering	04
3.	Engineering & Technology	Computer Science and Engineering	10
4.	Engineering & Technology	Mechanical Engineering	26
5.	Engineering & Technology	Electrical Engineering	08
6.	Engineering & Technology	Food Science & Technology	04
7.	Applied Sciences	Chemical Sciences	16
8.	Applied Sciences	Physical Sciences	02
9.	Applied Sciences	Mathematical Sciences	06
10.	Applied Sciences	Computer Application	03
11.	Pharmaceutical Sciences	Pharmacy	07
12.	Faculty of Languages	English	04
13.	Faculty of Languages	Punjabi	03

II (c) Autonomous Colleges			
1. Guru Nanak Dev Engineering College			
Sr. No.	Faculty/ Stream	Department/ Discipline	Vacant Seats for session 2020-21
1.	Engineering & Technology	Civil Engineering	02
2.	Engineering & Technology	Computer Science & Engineering	02
3.	Engineering & Technology	Electronics & Comm. Engineering	03
4.	Engineering & Technology	Mechanical Engineering	04
5.	Engineering & Technology	Electrical Engineering	01
2. Shaheed Bhagat Singh State Technical Campus, Ferozepur			
1.	Applied Sciences	Chemical Sciences	05
2.	Applied Sciences	Mathematical Sciences	02
3.	Applied Sciences	Computer Application	02
4.	Engineering & Technology	Electronics and Comm. Engineering	05
5.	Engineering & Technology	Mechanical Engineering	05
3. Amritsar College of Engineering & Technology			
1.	Engineering & Technology	Electronics & Comm. Engineering	11

4. I.S.F. College of Pharmacy, Moga			
1.	Pharmaceutical Sciences	Pharmacy	53

Note : New slots from the eligible Supervisors can be added until admission process is over.

The students who have qualified UGC/ CSIR/ SLET/ GATE/ GPAT/ NET/ JRF/SRF/ Rajiv Gandhi Fellowship awardees/ INSPIRE etc. will be eligible to apply **online through web portal <https://campuses.ptu.ac.in>** for Ph.D. Admission.

Note: 1. Do not send hard copy of application form or other documents to IKGPTU by post. The downloaded application form, original documents of eligibility and supporting documents of test exemption will be verified at the time of interview.

2. PhD Course work will be of 15 credits and are to be run in the main Campus of IKGPTU, Kapurthala on regular mode (Five days in week).

3. For admission under JRF (Campus Program) and PhD without fellowship, eligibility details i.e. age/ qualification etc. refer "**Eligibility/Qualification for admission to Ph.D. Programme**" of university appended below in the this document.

(III) IMPORTANT DATES		
Start date to fill online form	:	20-10-2020 (10.00 a.m.)
Last date to fill online form	:	31-10-2020 (11.59 p.m.)

(IV) APPLICATION FEE		
Fee for online application	:	Rs. 2000/-

(V) The structure of the course work is as under:

Sr. No.	Nature of Course	Name of Course	Credits
1.	Core	Research Methodology	4
2.	Core	Subject related theory paper	4
3.	Core	Presentation	3
4.	Interdisciplinary	Elective	4
Total Minimum Credits			15

(VI) Following institutes have been identified by the University for the conduct of Ph.D Course work (for candidates admitted under II(b)):

1. Guru Nanak Dev Engineering College, Ludhiana
2. Amritsar College of Engineering and Technology, Amritsar

3. Beant College of Engineering and Technology, Gurdaspur
4. Shaheed Bhagat Singh State Technical Campus, Moga, Road, Ferozepur
5. DAV Institute of Engineering & Technology, Kabir Nagar, Jalandhar
6. Global Institute of Management & Amp. Emerging Technologies, Amritsar-Batala Road, Punjab
7. Institute of Engineering & Technology, Bhaddal Technical Campus, Ropar
8. Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib
9. Amar Shaheed Baba Ajit Singh Jujhar Singh Memorial College of Pharma, Bela, Ropar
10. ISF College of Pharmacy, Moga

(VII) Eligibility/Qualification for admission to Ph.D. Programme (except ADF):

- (a) Candidates for admission to the Ph.D programme shall have a Master's degree in the relevant/allied subject or a professional degree declared equivalent to the Master's degree by the corresponding statutory regulatory body, with at least 55% marks in aggregate (6.18 CGPA out of 10) or its equivalent grade 'B' in the UGC 7-point scale (or an equivalent grade in a point scale wherever grading system is followed) or an equivalent degree from a foreign educational Institution accredited by an Assessment and Accreditation Agency which is approved, recognized or authorized by an authority, established or incorporated under a law in its home country or any other statutory authority in that country for the purpose of assessing, accrediting or assuring quality and standards of educational institutions.
- (b) A relaxation of 5% of marks, from 55% to 50% (5.62 CGPA out of 10), or an equivalent relaxation of grade, shall be allowed for those belonging to SC / ST / OBC (non-creamy layer) / Differently-abled and other categories of candidates as per the decision of the Commission from time to time, or for those who had obtained their Master's degree prior to 19th September, 1991. The eligibility marks of 55% (or an equivalent grade in a point scale wherever grading system is followed) and the relaxation of 5% to the categories mentioned above are permissible based only on the qualifying marks without including the grace mark procedures.
- (c) Candidates who have cleared the M.Phil course work in regular mode with at least 55% marks in aggregate or its equivalent grade 'B' in the UGC 7-point scale (or an equivalent grade in a point scale wherever grading system is followed) and successfully completing the M.Phil. Degree shall be eligible to proceed to do research work leading to the Ph. D. Degree in the same Institution in an integrated programme. A relaxation of 5% of

marks, from 55% to 50%, or an equivalent relaxation of grade, shall be allowed for those belonging to SC / ST / OBC (non-creamy layer) / differently-abled and other categories of candidates as per the decision of the Commission from time to time.

- (d) A person whose M.Phil. dissertation has been evaluated and the viva voce is pending shall be admitted to the Ph.D. programme of the same Institution;
- (e) Candidates possessing a Degree considered equivalent to M.Phil Degree of an Indian Institution, from a Foreign Educational Institution accredited by an Assessment and Accreditation Agency which is approved, recognized or authorized by an authority, established or incorporated under a law in its home country or any other statutory authority in that country for the purpose of assessing, accrediting or assuring quality and standards of educational institutions, shall be eligible for admission to Ph.D. programme.
- (f) Candidates, who have already cleared UGC / CSIR / SLET / GATE/ GPAT/ Rajiv Gandhi Fellowship awardees / teacher-fellowship holders / INSPIRE / or candidates who are awarded Fellowships directly or by other funding agencies (*ICAR/ICHR/ICMR/DBT/DST*), *M.Phil candidates (who have admitted through entrance test and completed M.Phil degree in regular mode)* for the purpose of pursuing PhD will be exempted from entrance test.
- (g) Candidates, who have qualified UGC / CSIR / SLET / GATE/ GPAT/ Rajiv Gandhi Fellowship awardees / teacher-fellowship holders / INSPIRE / or candidates who are awarded Fellowships directly or by other funding agencies (*ICAR/ICHR/ICMR/DBT/DST*), *M.Phil candidates (who have admitted through entrance test and completed M.Phil degree in regular mode)* can join Ph.D program any time throughout the year subject to availability of the Ph.D. vacancy and approval of the Supervisor. However, course work allotment will be as per existing Ph.D norms.
- (h) No Candidate shall be eligible to register for the Ph.D. programme if he / she is already registered for any full time programme of study in any University / Institution.

Note: The GATE qualified candidates are exempted from IKGPTU Entrance Test. At present, the validity of GATE score card is of 3 years. As per guidelines for AICTE Doctoral Fellowship (ADF) 2020-21, the GATE Score of last 5 years will be valid, therefore the validity of GATE score will be as per guidelines of AICTE for AICTE Doctoral Fellowship (ADF) as well as for Ph.D. admission of without Fellowship. JRF/SRF will also have to apply online.

(VIII) Selection Criteria (for all viz. test exempted categories, without fellowship, with fellowship and PDF).

(a) The numbers of candidates who will be called for interview will be double the number of seats available for admission. The inter-se merit of candidates appeared in test will be made on the basis of merit calculated as per the following criteria:

- (i) Weightage of Marks in Bachelor programme: 40%
- (ii) Weightage of Marks in Master's programme: 40%
- (iii) Weightage to Interview: 20%

(b) The interview shall also consider the following aspects, viz. whether:

- (i) the candidate possesses the competence for the proposed research;
- (ii) the research work can be suitably undertaken at the Institution / College;
- (iii) the proposed area of research can contribute to new / additional knowledge.

(c) Only the predetermined number of students, based upon the available recognized research supervisors (with concerned specialization / research interest) will be selected for admission to Ph.D. The result will be communicated to the student.

(d) The candidate who has been selected for Ph.D programme after qualifying the test i.e. written and interview may take admission in June- July or Dec-Jan. If the candidate has been selected in the session Dec- Jan then he can take admission in the session Dec-Jan and June-July. **If the student fails to take admission in the said two consecutive sessions then his/her candidature will stand cancelled.**

(e)* **Sponsored / Fellowship Awardees**

The UGC / CSIR / INSPIRE / AICTE fellowship awardees or those sponsored by Government (State / Union / UT) / Public Enterprises / CSIR / DRDO research labs or candidates who are awarded fellowships directly by their or any funding agencies for the purpose of pursuing Ph.D., can be registered any time during the session. NET / GATE / GPAT qualified project fellows appointed against financed projects of at least two years' duration can also be registered for Ph.D. at any time during the session.

(f) **Reservation**

National / State reservation policy shall be paid due attention in the process of Ph.D. admission. Candidates who have qualified UGC / CSIR / JRF / INSPIRE / Fellowship awardees / and those sponsored by Government

(State / Union / UT) / Public Enterprises / recognized research labs will be admitted irrespective of reservation category.

The guidelines of the UGC and directions of the MHRD as applicable from time to time in regard to reservation for SC / ST / OBC / PWD in Ph.D. admissions shall be applicable automatically.

*Not implemented on ADF

Note : Pre-Ph.D course work for the selected candidates will start w.e.f. next Academic Session i.e. Jan.-Feb.-2021. No exemption from course work is allowed.

(IX) AICTE DOCTORAL FELLOWSHIP (ADF)

OBJECTIVES: -

The objectives of the ADF scheme are:

- To promote research culture in AICTE approved Institutions.
- To promote collaborative research between Institute and Industries leading to start-ups.
- To nurture talents for technical research.

1 BRAOD THRUST AREAS FOR THE RESEARCH: -

Some of the broad thrust areas (but not limited) for the research are as follows:-

- Green Technologies
- Big Data, Machine Learning & Data Sciences
- Block Chain
- Artificial Intelligence
- Energy Production and Storage
- Electronics & Photonics
- Nuclear Engineering and Allied Technologies
- Robotics and Mechatronics
- Augmented Reality (AR)/ Virtual Reality (VR)
- Energy Efficiency, Renewable and sustainable Energy
- Electric and Hybrid Mobility
- Smart Cities, Housing and Transportation
- Internet of Things (IoT)
- 3D Printing
- Quantum Computing
- Smart Technologies for Agriculture and Food Industry
- Water purification, conservation and management
- Public Policy

- Social & Organizational Psychology & Behaviour
- Cyber Security

2 ELIGIBILITY CRITERIA FOR THE AWARD OF FELLOWSHIP: -

The detailed criteria for the award of fellowship are as follows:

- a) The fellowship/HRA/contingency will be granted to research scholars admitted in the Technical Universities in the identified thrust areas of the ADF scheme.
- b) Technical Universities will admit candidates in their research programme as per their procedure following minimum eligibility criteria as prescribed by AICTE.
- c) The candidate must have secured minimum cumulative grade point average (CGPA) of 7.5 on the scale of 10 (or minimum 75% marks) or equivalent at both Bachelors and Masters. In addition to above, the candidate should have qualified GATE/GPAT/NET during the last 5 years. For SC/ST/PH candidates, CGPA requirement will be 7.0 on the scale of 10 (or 70% marks) or equivalent.
- d) The candidate should be less than 30 years of age as on date of admission in respective Technical University. However, age relaxation of 5 years would be applicable to candidates belonging to SC/ST, women and physically challenged category in succession.

3 DURATION OF THE SCHEME: -

The duration of the scheme shall be for a period of 3 Years. Further one-year extension (In two slots of 6 months' each) may be given by AICTE on the recommendation of the respective Technical University based upon the performance of the scholar in the research work.

4 AMOUNT OF FELLOWSHIP: -

The Fellowship will be Rs. 31,000/- pm for the first two years followed by Rs. 35,000/- pm for the third year. HRA will be provided at the rate of 8%, 16% and 24% as per the Government of India (GoI) norms as applicable in the city/ location where the Research Fellow is pursuing their research and are not provided any hostel accommodation in the institute.

In addition, Contingency grant will be admissible to the Scholars at the rate of Rs.15, 000/- per annum to meet the miscellaneous expenditures.

5 NUMBER OF FELLOWSHIP: -

Maximum 5 Nos. of fellowship will be granted in a year. This year fellowship will be distributed in following departments:

- (i) Civil Engineering

- (ii) Computer Science & Engineering
- (iii) Electronics & Communication Engineering
- (iv) Electrical Engineering
- (v) Mechanical Engineering

Next year ADF will be distributed in other departments.

6 CANCELLATION OF AWARD: -

The fellowship is liable to cancellation in case of:

- a)** Registration in Ph.D. not within one year from date of joining.
- b)** Misconduct.
- c)** Unsatisfactory progress of research work/ failure in any examination related to Ph.D.
- d)** He/ She is found ineligible later.
- e)** Any false information furnished by the applicant or any fraudulent activity by the Scholar/ Fellow/ Research Awardees shall lead to Penal action against him/ her.
- f)** The fellowship may be terminated at any time during the tenure and the decision of the AICTE will be final and binding.

7 TERMS AND CONDITIONS: -

- a)** Registration for Ph.D. is mandatory within one year from the date of joining as a research fellow. If candidate has not registered himself/ herself within one year from date of joining, then fellowship will be discontinued upto his/ her registration for Ph.D.
- b)** In the cases where the fellowship has been discontinued as per clause (a) above, the fellowship may be resumed after the registration in Ph.D. However, the maximum tenure of fellowship in such cases will be limited to as mentioned in clause 4.0 above.
- c)** The awardees shall submit an annual report on the progress, each year through the Research Supervisor, Head of the Department and Head of the Institute to AICTE.
- d)** The final progress report should be submitted by the awardees through the Head of the Department / Institution to the AICTE.
- e)** The awardees shall not be allowed for transfer of award from the Institution where the awardees are presently working for Ph.D. during the entire tenure of the award.
- f)** The awardees shall devote full time to research during the tenure of fellowship and will not be permitted to take any part time/ full time assignment. He/ She will

not accept any salary, fellowship or any type of financial assistance offered during the tenure of fellowship through any other source otherwise the entire amount of fellowship will have to be refunded. The nature of the candidature (Full time AICTE sponsored Doctoral Fellow) will not be changed during the program.

- g)** The awardees shall give a declaration that if the results of research are such that can be exploited commercially by taking a patent or otherwise, commercial exploitation and patent rights should be with the Institute, candidate and supervisor. However, the rules of respective research institute, if any, in this regards will be applicable.
- h)** AICTE online portal will have mechanism for the purpose of releasing fellowship/ HRA/ contingency etc. amount directly in the bank account of the beneficiary through DBT.
- i)** The service conditions as notified by Department of Higher Education, Ministry of Human Resource Development vide F. Number 15-2/2019-TC dated 16.07.2019 shall be applicable to awardees.
- j)** If the progress of the candidate is not satisfactory as reported by the supervisor/ Head of the Department /Head of the Research Institute/ University, the fellowship of the candidature will be terminated with immediate effect. This will not be revoked under any circumstances.
- k)** The Ph.D. rules/ regulations of the research institute and affiliating University will be applicable to all admitted candidates under this scheme.
- l)** No separate/ fixed medical assistance is provided. However, the fellow may avail of the medical facilities available in the Institution/ University/ College.
- m) Leave:-**
 - (i) Fellows are entitled for a maximum period of (i) 15 days Casual Leave (CL) and (ii) 30 days Medical Leave (ML) in a year in addition to public holidays. They are not entitled to any other vacations.
 - (ii) Candidates are eligible for maternity/ Paternity leave as per GoI norms issued from time to time at full rates of fellowship etc. once during the tenure of their award. However, maximum duration of fellowship will not be extended under any circumstances.

Note: All kinds of leave should be approved at the level of the University/ College/ Institute. Prior approval of the University/ Institution/ College is mandatory for all types of leaves.

n) Teaching Assistance (Work Load)

Teaching assistantship of **not more than 8** hours/ week may be given to scholars undergoing full time Ph.D. program under AICTEADF scheme and may include assistance in lab classes, tutorial support etc.

o) Action to be taken in case of leaving the course before completion

The awardees shall furnish an undertaking that in case of his/ her vacating the

seat within the duration for which he/ she has been offered fellowship, he/ she shall be liable to refund the entire amount fellowship received by him/ her till the date of his/ her leaving the scheme.

- p)** The fellow shall not undertake any paid assignment during the tenure of the fellowship (Except in case of leave without fellowship upto one academic year during the entire tenure).
- q)** This scheme will supersede the currently executed NDF scheme on implementation.