Indian Institute of Information Technology, Nagpur (IIITN), an institution of national importance, is established under IIIT (PPP) Act, 2017 enacted by Indian Parliament under Public-Private Partnership Scheme by Ministry of Human Resource Development, Government of India and Government of Maharashtra. M/s Tata Consultancy Services Limited, Mumbai is the Industrial Partner of IIIT, Nagpur. This institute has been established under the mandate of providing research, academics and industry collaboration in the field of Information Technology.

IIIT, Nagpur is offering Under Graduate and PhD Programmes in Computer Science & Engineering (CSE) and Electronics & Communication Engineering (ECE) Courses.

The Institute will be shortly shifting to its state-of-the-art Permanent Campus proposed to be developed on sprawling 100 Acres of land at Village Waranga near Butibori in Nagpur District.

The Institute invites applications from eligible Indian Nationals for admission to the Doctor of Philosophy (PhD) Programme expected to start from 15th Sept. 2020. This Programme shall be offered in Computer Science & Engineering (CSE) and Electronics and Communication Engineering (ECE) Departments in following areas:

<table>
<thead>
<tr>
<th>Department</th>
<th>Research Areas</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Science &amp; Engineering</td>
<td>All areas in Computer Science &amp; Engineering like Operating Systems, Databases,</td>
</tr>
<tr>
<td></td>
<td>Computer Networking, Compilers, Computer Graphics, Software Engineering, Image</td>
</tr>
<tr>
<td></td>
<td>Processing and Computer Vision, Big Data, Data Mining, Artificial Intelligence,</td>
</tr>
<tr>
<td></td>
<td>Machine Learning, Deep Learning, Natural Language Processing, Computational</td>
</tr>
<tr>
<td>Electronics and Communication Engineering</td>
<td>All areas in Electronics and Communication Engineering like Communication,</td>
</tr>
<tr>
<td></td>
<td>Wireless or RF Communications, Microwave Engineering, Antennas, 5G, LTE,</td>
</tr>
<tr>
<td></td>
<td>MIMO Technologies, Microprocessors and Embedded Systems, Image and Video</td>
</tr>
<tr>
<td></td>
<td>Signal Processing, Computer Vision, Instrumentation, Opto-electronics, VLSI</td>
</tr>
<tr>
<td></td>
<td>Design, Internet of Things, Automotive Electronics, Mechatronics, Embedded</td>
</tr>
<tr>
<td></td>
<td>System Design, Wireless Sensor Network, Cognitive Radio, Li-Fi, and another</td>
</tr>
<tr>
<td></td>
<td>Advanced topics of Electronics and Communication Engineering.</td>
</tr>
</tbody>
</table>
A. PhD Scheme:

The Institute offers the PhD Program under various institute level categories as follows:

1. Industry Candidates:
   a) Extern Candidate from Industry (EX-I)

   This category shall include a candidate who is self-financed and permitted and employed
   by a recognized private/ government/semi-government, R&D Organization, PSU, Private/
   Government/ semi government Industry or companies or any Private/ government/ semi
   government non-academic institution for doing research basis in work integrated manner
   at the respective place of work. The candidate must be a regular employee of the employer
   organization with minimum Five Years of professional experience in the respective field
   and is eligible for admission with B.Tech/BE or M.Tech/M.S./ME qualification with
   respective thesis submission period and required course work credits. Such candidate is
   not eligible to receive any financial stipend or support from IIITN. At the time of admission
   such candidates are required to submit NOC from the employer organization.

   b) Intern Sponsored Candidate from Industry (IN-IS)

   This category shall include a candidate who is sponsored and permitted and employed by a
   recognized private/ government/semi-government, R&D Organization, PSU, Private/
   Government/ semi government Industry or companies or any Private/ government/ semi
   government non academic institution for doing research at IIITN. The candidate must be a
   regular employee of the sponsoring organization with minimum Five Years of professional
   experience in the respective field and is eligible for admission with B.Tech/BE or
   M.Tech/M.S./ME qualification with respective thesis submission period and required
   course work credits. Such candidate is not eligible to receive any financial stipend or
   support from IIITN instead will be receiving the same from the sponsoring organization. It
   is mandatory for such candidates to present the certificate of financial assistance provided
   by the sponsoring organization.

2. Academic Institution(s) Candidates
   a) Extern Self financed candidates from Academic Institutions (Ex-A)

   This category shall include a candidate who is self-financed and permitted and employed by a
   recognized private (autonomous or university affiliated)/ government (state or central)/semi-government academic institution for doing research in work integrated manner at the respective place of work. The candidate must be a regular employee of the employer organization and is eligible for admission with M.Tech/M.S./ME qualification with respective thesis submission period and required course work credits. Such candidate is not eligible to receive any financial stipend or support from IIITN. At the time of admission such candidates are required to submit NOC from the employer organization.

   b) Intern Sponsored Candidate from Academic Institutions (IN-AS)

   This category shall include a candidate who is sponsored and permitted and employed by a
   private (autonomous or university affiliated)/ government (state or central)/semi
government academic institution or sponsored under QIP schemes for doing research at
IIITN.
The candidate must be a regular employee of the sponsoring organization and is eligible for admission with M.Tech/M.S./ME qualification with respective thesis submission period and required course work credits. Such candidate is not eligible to receive any financial stipend or support from IIITN instead will be receiving the same from the sponsoring organization. It is mandatory for such candidates to present the certificate of financial assistance provided by the sponsoring organization.

3. Other Candidates.

   a) Intern Self Sponsored Candidates (IN-U)

   This category shall include a candidate who is self-financed and unemployed will be doing research at IIITN. The candidate is eligible for admission with M.Tech/M.S./ME qualification with respective thesis submission period and required course work credits. Such candidate is not eligible to receive any financial stipend or support from IIITN.

   b) Intern externally funded or sponsored or Project Staff Candidates (IN-ES)

   This category shall include a candidate who has received fellowship or scholarship or funding from Private trusts/Private industry/ Government or semi government agency or department and is unemployed OR A candidate working as SRF or JRF at IIITN under a funded research project will be doing research at IIITN. The candidate is eligible for admission with M.Tech/M.S./ME qualification with respective thesis submission period and required course work credits. Such candidate is not eligible to receive any financial stipend or support from IIITN. Instead in case of SRF/JRF like IIITN project staff the stipend will be under the respective research grant and for other candidates the stipend will be through the scholarships or fellowships they will be receiving.

B. Eligibility Criteria:

The relevant details of the eligibility criteria are as under:

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Category</th>
<th>Minimum Duration for Thesis Submission</th>
<th>Eligibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Candidate from Industry (Ex-I) (IN-IS)</td>
<td>Three (3) years for Candidates with Master's Degree and Four(4)years for candidates with Bachelor’s Degree, from the date of joining the programme till the date of Submission of Thesis</td>
<td>Essential: 1. Master’s Degree in Engineering / Technology with Bachelor’s in Engineering / Technology with First class or 60% marks (55% marks for SC / ST / PwD) / CPI or CGPA greater that 6.75 (6 for SC / ST / PwD) on a 10 point scale. OR Bachelor’s Degree in Engineering / Technology with First Class or 60% marks (55% marks for SC / ST / PwD) / CPI or CGPA greater that 6.75 (6 for SC/ST/PwD) on a 10 point scale. AND 2. Minimum 5 years of relevant experience in CSE/ECE/IT and allied fields. Desirable: A valid GATE score is desired.</td>
</tr>
<tr>
<td>Sr. No.</td>
<td>Category</td>
<td>Minimum Duration for Thesis Submission</td>
<td>Eligibility</td>
</tr>
<tr>
<td>--------</td>
<td>----------</td>
<td>----------------------------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>2</td>
<td>Academic Institution (s) Candidate (Ex-A) (IN-AS)</td>
<td>Three (3) years from the date of joining the programme till the date of Submission of Thesis</td>
<td>Essential: Master's Degree in Engineering / Technology with Bachelor's in Engineering / Technology in ECE/CSE and allied disciplines with First Class or 60% marks (55% marks for SC/ST/PwD) / CPI or CGPA greater that 6.75 (6 for SC/ST/PwD) on a 10 point scale. Desirable: A valid GATE Score.</td>
</tr>
<tr>
<td>3</td>
<td>Other Candidates (IN-U) (IN-ES)</td>
<td>Three (3) years from the date of joining the programme till the date of Submission of Thesis</td>
<td>Essential: Master's Degree in Engineering / Technology with Bachelor's in Engineering / Technology in ECE/CSE and allied disciplines with First Class or 60% marks (55% marks for SC/ST/PwD) / CPI or CGPA greater that 6.75 (6 for SC/ST/PwD) on a 10 point scale. Desirable: A valid GATE Score.</td>
</tr>
</tbody>
</table>

C. Fees Structure:

The payment of Annual Fees may be done on semester basis.

The Semester wise Fees Structure for all the category of candidates is as under:

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Particulars</th>
<th>Odd Semester</th>
<th>Even Semester</th>
<th>Total Annual Fees</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Tuition Fee</td>
<td>35000</td>
<td>35000</td>
<td>70000</td>
</tr>
<tr>
<td>2</td>
<td>Development Fee</td>
<td>6000</td>
<td>6000</td>
<td>12000</td>
</tr>
<tr>
<td>3</td>
<td>Registration Fee</td>
<td>1500</td>
<td>1500</td>
<td>3000</td>
</tr>
<tr>
<td>4</td>
<td>Library Fee</td>
<td>2000</td>
<td>2000</td>
<td>4000</td>
</tr>
<tr>
<td>5</td>
<td>Medical Insurance</td>
<td>700</td>
<td>0</td>
<td>700</td>
</tr>
<tr>
<td>6</td>
<td>Internet Charges</td>
<td>1000</td>
<td>1000</td>
<td>2000</td>
</tr>
<tr>
<td>7</td>
<td>Infrastructure Usage Fee</td>
<td>2000</td>
<td>2000</td>
<td>4000</td>
</tr>
<tr>
<td>8</td>
<td>Welfare Fee</td>
<td>1000</td>
<td>1000</td>
<td>2000</td>
</tr>
<tr>
<td>9</td>
<td>Gymkhana Activity &amp; Magazine Fee</td>
<td>1150</td>
<td>1150</td>
<td>2300</td>
</tr>
</tbody>
</table>

Total Fees = 50,350/- 49,650/- 1,00,000/-
D. Application Procedure:

1. The applications are to be filled in online mode with all relevant documents attached and a separate hard copy of the same application filled as per Annexure – 1 must be send by post as back up. To avail the online form Gmail account is essential.

   Link for online form: https://forms.gle/51gCZKtPuSf3Ycnp7

2. The Application Form for back up hard copy shall not be supplied on postal request. The candidates are advised to download the same from Institute Website viz. www.iiitn.ac.in.

3. All applications which are not in prescribed form / without relevant supporting enclosures / received after the last date / without application fees will be out rightly rejected. No correspondence shall be entertained in this regard. Interim Correspondence will also not be entertained or replied to.

4. Institute will not be responsible under any circumstances for any sort of postal delay/loss of the application form.

5. The last date for submission of application is 10/08/2020 up to 17:00 Hrs.

6. Application Fees:

   The Application Fees shall be as under:

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Particulars</th>
<th>Application Fees</th>
<th>GST</th>
<th>Total Fees</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>General/OBC-NCL Candidates/EWS</td>
<td>Rs. 1000/-</td>
<td>Rs. 180/-</td>
<td>Rs. 1180/-</td>
</tr>
<tr>
<td>2</td>
<td>SC/ST/PwD Candidates</td>
<td>Rs. 500/-</td>
<td>Rs. 90/-</td>
<td>Rs. 590/-</td>
</tr>
</tbody>
</table>

7. The Application Fees shall be payable through Demand Draft drawn in favour of Director, IIIT, Nagpur payable at Nagpur or by UPI/NEFT in the following Bank Account (Attach Receipt):

<table>
<thead>
<tr>
<th>Account Name</th>
<th>IIITN GENERAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Account Number</td>
<td>37236982961</td>
</tr>
<tr>
<td>Name of the Bank</td>
<td>State Bank of India, VRCE Branch, South Ambazari Road, VNIT, Nagpur</td>
</tr>
<tr>
<td>Bank Code</td>
<td>06702</td>
</tr>
<tr>
<td>IFSC Code</td>
<td>SBIN0006702</td>
</tr>
<tr>
<td>MICR Code</td>
<td>440002005</td>
</tr>
</tbody>
</table>

8. Candidates are required to write his/her name and contact number on the UPI/NEFT Receipt.

9. The Application Fees is non-refundable.

10. The duly completed Application Form along with fees & enclosures (Self Attested Photocopies of all the listed documents) are also required to be sent by Speed Post / Registered Post / Courier / Hand Delivery to:

    The I/c Registrar,
    Indian Institute of Information Technology, Nagpur
    BSNL RTTC, Near TV Tower, Beside Balaji Temple, Seminary Hills, Nagpur - 440006,
    State: Maharashtra
    Ph No: 091-0712-2985010
11. The envelope containing the Application Form shall mention on the top in bold “Application for 
PhD in the Department of <CSE> or <ECE>” with candidate name, address and phone number 
written on it.

12. Employed candidates are required to submit the No Objection Certificate (NOC) from the 
respective organization in the format provided in Annexure – 2.

13. No TA/DA and/or Lodging/Boarding will be paid for attending the Written Test / Interview. As 
the Institute is operating from its Makeshift Campus, no accommodation shall be provided.

14. Any corrigendum/changes/updates shall be made available only on the Institute’s Website viz. 
www.iiitn.ac.in. The candidates are advised to keep on watching the Institute’s Website for any 
information / updates on the PhD Admission Process.

15. In the current prevailing situation of Pandemic COVID-19 the institute will choose the online 
mode of test and interview depending on the circumstances at that time and issued directives 
by the Competent Authorities.

E. Selection Process:

The PhD Admissions shall be on the basis of Written / Online Test and Offline / Online Interview. 
The procedure shall be as follows:

Stage 1: Written / Online Test - Eligible candidates are required to appear for the Written / Online 
Test.

Qualifying Score in Written / Online Test: The minimum qualifying score shall be a normalized 
score decided taking into account the number of candidates to be called for interview. But in no 
case it will be less than 40%. The normalization will be done by considering the top most score to 
be 100% and scaling the scores of other candidates accordingly.

Stage 2: Interview – Candidates qualifying the Written / Online Test shall be eligible to appear for 
Personal Interview.

Stage 3: Calculation of Combined Score – A Combined Score shall be calculated on the basis of 
score in Written / Online Test, Score in Personal Interview and GATE Qualification as under:

<table>
<thead>
<tr>
<th>Candidate Category</th>
<th>Total Marks</th>
<th>Written / Online Test</th>
<th>Offline / Online Interview</th>
<th>GATE Qualification*</th>
</tr>
</thead>
<tbody>
<tr>
<td>EX-I &amp; IN-IS</td>
<td>100</td>
<td>40</td>
<td>50</td>
<td>10</td>
</tr>
<tr>
<td>EX-A, IN-AS, IN-U &amp; IN-ES</td>
<td>100</td>
<td>50</td>
<td>40</td>
<td>10</td>
</tr>
</tbody>
</table>

* Candidates with GATE Qualification shall be obtaining the allotted marks.

The Final Merit List shall be prepared on the basis of Combined Score.

F. Examination Pattern:

a. Written / Online Test:
The question paper for written / online test shall comprise of two sections.

   Section-1 shall be common for all categories and would comprise of questions on General 
   Ability and Communication Skills.
The Section-2 shall have questions based on the syllabus for respective categories as under:

For Candidates from Industry (EX-I & IN-IS): Basic Engineering Maths; Basic Programming and Engineering Knowledge and Skills; Engineering Logical Analysis, Arithmetic, Industry Standards.

For all remaining category Candidate (EX-A, IN-AS, IN-U, IN-ES)

<table>
<thead>
<tr>
<th>Stream</th>
<th>Syllabus</th>
</tr>
</thead>
</table>

b. Presentation on Statement of Purpose (SoP):

All the candidates are required to attach a Statement of Purpose (SoP) in the format available in the Annexure – 3 to the online softcopy as well as hard copy application.

Candidates applying under the category Industry Candidates (EX-I)/(IN-IS) are required to give a short presentation of maximum 5 slides specifying a brief of intended / targeted problems at the time of interview.

G. Tentative Admission Schedule

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Particulars</th>
<th>Tentative Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Advertisement and availability of application forms</td>
<td>10th July 2020</td>
</tr>
<tr>
<td>2</td>
<td>Last date for submission of completed application forms</td>
<td>10th August 2020</td>
</tr>
<tr>
<td>3</td>
<td>Display of list of eligible candidates called for Written / Online Test</td>
<td>17th August 2020</td>
</tr>
<tr>
<td>4</td>
<td>Written /Online Test (for all categories) and display of list of candidates qualified for interview.</td>
<td>25th August 2020</td>
</tr>
<tr>
<td>5</td>
<td>Online / Offline Interview (for all categories)</td>
<td>27th to 30th Aug. 2020</td>
</tr>
<tr>
<td>6</td>
<td>Declaration of Results</td>
<td>2nd Sept. 2020</td>
</tr>
<tr>
<td>7</td>
<td>Payment of PhD fees on or before</td>
<td>11th Sept. 2020</td>
</tr>
<tr>
<td>8</td>
<td>Registration</td>
<td>12th Sept. 2020</td>
</tr>
<tr>
<td>9</td>
<td>Instruction Begins</td>
<td>15th Sept. 2020</td>
</tr>
</tbody>
</table>
H. Submission of Documents / Certificates:

The self-attested copies of following documents are required to be attached with the hardcopy Application Form and scanned copies of the same to be attached with online forms, failing which the application shall not be evaluated and shall stands summarily rejected:
1. The hard copy of the Prescribed Application Form duly signed on all the pages.
2. 10th Standard Certificate.
4. Graduation Mark-Sheets for all years.
5. Graduation Degree Certificate.
6. Master’s Degree & Mark-Sheets for all semesters.
7. NOC from the Current Employer.
8. Experience / Service Certificate for all the previous employments (if in period of five years).
9. EWS and OBC-NCL Certificate (wherever applicable) issued in the current Financial Year only as per Central Government Format.
11. SC/ST/PwD Certificates (wherever applicable) in prescribed pro-forma of Central Government Only.
12. Scanned Copy of NEFT payment receipt or scanned copy of DD for online form and actual DD or original NEFT receipt for hard copy form.

Original Documents and Id Proof would have to be produced during the Documentation Verification Process to be undertaken on the date of Interview failing which the Candidate may not be allowed to appear for the Selection Process.

I. Minimum Exit Criteria:

All the registered PhD students need to complete the requirement of coursework of 6 credits by MTech Degree Holders and 12 credits by BTech Degree Holders in either of the following modes:

A. Courses offered by the Institute.

B. Credits can be earned through successful completion of the online courses available on MOOC platforms like NPTEL, MIT-OCW, Coursera, edX, etc (The total minimum course hours for an online course should be 40 hours).

Publications:

The minimum requirement for submitting the Thesis is publication in 1 SCI indexed journal and 1 SCI / Scopus index journal.
J. General Terms & Conditions:

1. M.Tech Final Year appeared candidates are also eligible to apply under suitable category provided that the candidate must submit the M.Tech provisional degree on declaration of results.

2. In case of any dispute regarding the PhD Admission Process, the place of jurisdiction shall be Nagpur, Maharashtra (India) only.

3. The decision of Director, IIITN shall be final in all the matters related to Admission Process.

4. The Institute reserves its right to cancel / postpone / hold the Admission Process at any stage without citing any reason thereof.

5. Mere eligibility doesn't ensure selection. The Institute reserves the right to select limited number of PhD Candidates in each of the Departments at the sole discretion of Director, IIITN.

6. The list of short listed candidates shall be displayed on the Institute Website. Candidates are advised to visit the IIITN website www.iiitn.ac.in regularly. No correspondence regarding reasons for not short listing the candidate shall be entertained.

7. The candidates are required to have at least one working email and mobile number which will be used during the entire admission process for communication, if required.

8. In case of any inadvertent mistake in the process of admission detected at any stage even after the registration of the candidate for PhD Programme, the Institute reserves the right to modify/withdraw/cancel any communication made to the candidates.

9. For more details regarding six-monthly seminar and other Academic Rules related to PhD Program, candidates can refer to the Academic Rulebook available on the Institute Website viz. www.iiitn.ac.in.

10. Canvassing in any form shall lead to disqualification of the Candidate for admission.

11. Clarification, quarries in the context of Admission Process may be sent on the email id viz. registrar@iiitn.ac.in.

Place: Nagpur
Date: 10/07/2020

DIRECTOR