

# **BIJU PATNAIK UNIVERSITY OF TECHNOLOGY (BPUT), ODISHA**

## **Regulations for the Degree of Doctor of Philosophy**

**(Effective from the year 2015 onwards)**

**Short Title, Application & Commencement:** These regulations shall be called the **Biju Patnaik University of Technology (Regulation for the Degree of Doctor of Philosophy), BPUT Regulations 2015**. They shall apply to every candidate applying for admission, registration, conduct and conferment of the Degree of Doctor of Philosophy, in short Ph.D., of this University. Notwithstanding anything contained in any other Rule or Regulation for the time being in force, all admissions, registrations, course works and conferment of Degree shall be guided by these regulations.

The Degree shall be awarded to a candidate on the basis of original research work of merit incorporated in a thesis, recommended by a board of examiners and successfully defended by the candidate during a Viva-Voce and subject to the approval of the Vice Chancellor.

The medium of communication, instruction, examination, seminars, write-up and the defence of Ph.D. thesis will be in English.

### **1. Committees for the Ph.D. Programme**

#### **1.1 Research Council of the University (RCU)**

There will be a Research Council of the University (RCU) for each faculty of the University. Computer Application, Science & Humanities stream shall come under the RCU (Computer Application and Sciences). All academic matters related to this degree shall be supervised by the RCU consisting of the following:

- (i) Dean of the concerned faculty (Chair)
- (ii) Associate Dean of the concerned faculty (Co-Chair)
- (iii) Four nominees of the Vice- Chancellor: In the rank of Professor/Associate Professor (at least one must be of the rank of Professor) from Institutes of National Reputes
- (iv) One nominee of the Dean: From Institutes/organizations of National Repute outside the state

The term of the RCU will be for a period of three years.

#### **1.1.1. Role and Functions of RCU**

- (a) To approve the name of a prospective Supervisor based on the bio-data and the areas of specialization.
- (b) To allot Supervisor based on the mapping of the proposal submitted by the enrolled Doctoral candidate.
- (c) To nominate and approve the composition of the Doctoral Scrutiny Council (DSC) for each Doctoral candidate.
- (d) To nominate additional expert (s) for Pre-Submission Seminar.
- (e) To appoint scholars of eminence who may be residing in India or abroad as Co- Supervisor(s) on recommendation of the supervisor (Maximum of two Co-Supervisor can be allotted).
- (f) To confirm the Registration of students in the Ph.D. programme based on the recommendations of the DSC after completion of the recommended

course works.

- (g) To approve the registration of the Candidate
- (h) To review the progress of the Ph.D. programme based on the progress report submitted by Doctoral Scrutiny Council (DSC) of a Doctoral candidate.
- (i) To approve the submission of a Ph.D. dissertation and forward the accepted list of examiners for a Doctoral candidate for approval of VC.
- (j) To interpret the report and recommend to the VC for consideration for the final decision.
- (k) To deal with complaints submitted by a Doctoral candidate(s), Supervisor(s) / DSC member(s).
- (l) To conduct meeting quarterly at the University. The quorum for the RCU meeting shall be four, with at least one Professor in the Committee. The meeting will ordinarily be chaired by concerned Dean. In case the Dean is absent in a pre-scheduled meeting, Co-chair of the concerned faculty shall chair the meeting.

## **1.2 Doctoral Scrutiny Council (DSC)**

For each Doctoral candidate, there shall be a Doctoral Scrutiny Council (DSC), the main role of which is to ensure that the Doctoral candidate is engaged in an appropriate research work, makes good progress and at the end prepares a quality thesis. The DSC will function till the completion of the doctoral work of the candidate. However, in case of requirement the RCU may constitute a new and fresh DSC after dissolving the old DSC for a candidate at any of the time. It will recommend the subjects for course work and advise the students on progress of his research work on a regular basis. It shall meet at least twice in a year to record in writing the progress of the work. These records will be forwarded to the RCU.

### **1.2.1 Composition of DSC**

- (a) The Supervisor(s) for the candidate.
- (b) The Supervisor will provide a list of eight experts (four from the state and four from outside the state) known to be working in similar areas.
- (c) RCU will choose two expert members (one from each sub list). However, RCU can nominate experts from outside the list, if felt necessary.
- (d) One member from different disciplines but in a broadly related field, to be nominated by respective RCU.

The quorum for the DSC shall be three, with at least one expert in the Committee. Supervisor's presence is a must for conducting the meeting. The Chairman of DSC shall be nominated by respective RCU amongst DSC members (other than the Supervisor(s)).

### **1.2.2. Functions of DSC**

- (a) To conduct a Synopsis Seminar of the candidate and examine the suitability of the candidate for registration.
- (b) To decide on the course work for the candidate.
- (c) To recommend the place of research for the candidate.
- (d) To recommend to the RCU for confirmation of the registration.
- (e) To hold periodic meetings once in every six months at the University to review the progress of the work (submitted in format given in Appendix – IV) forwarded through the Supervisor to the RCU.
- (f) To hold the Pre-submission Seminar for the Doctoral candidate and recommend the submission of the Ph.D. thesis. Pre-submission Seminar will be conducted by DSC members and one additional expert as

nominated by RCU.

- (g) To report cases of neglect of research work and indiscipline that includes unethical practices such as plagiarism and misrepresentation of data to the RCU and the University administration for disciplinary action.
- (h) To fix the date of Via-Voce examination on the recommendation of the RCU.
- (i) To conduct the Viva-Voce examination and make appropriate recommendation to RCU.

## **2. Candidate Selection and Registration Process:**

### **2.1 Selection Process**

#### **2.1.1 Invitation for Application & Eligibility**

The Registrar of the University shall invite applications for enrolment to Ph.D. Programme twice a year, ordinarily in the months of December & June. An eligible candidate may apply in the prescribed form (Appendix -1) for pursuing a Ph.D. programme under BPUT. Subject to conditions stipulated in 2.1.2 below, a candidate applying for enrolment shall have to go through a process of selection such as an entrance test, Viva-Voce and approval by competent authorities.

#### **2.1.2 Eligibility for Application**

- (a) To be eligible for entrance test, a candidate must have obtained a master degree in relevant discipline with a minimum of 6.5 CGPA in a 10 point scale or 60% of marks in aggregate of any recognized University, or any degree recognized as equivalent in the subject in which the candidate wishes to pursue a course of research, or in an allied subject.
- (b) Candidate having GATE/NET/GPAT/CAT/XAT/QIP or any National level recognised test or having been granted fellowship by recognized organizations (such as DST Inspire etc) are exempted from entrance test and they have to appear the Via-Voce of the University.
- (c) The candidates having more than 55% and less than 60% marks or equivalent CGPA are also eligible for entrance test subject to having five years of experience in technical institute/R & D laboratories/industries.

#### **2.1.3 Scrutiny of Application forms:**

The applications received by the Registrar shall be scrutinized by the Deans office and finally approved by Registrar and Dean of the respective faculty.

#### **2.1.4 Entrance Test:**

All eligible candidates shall have to qualify a common entrance test, unless exempted in these regulations, to be conducted by the Director (Examinations) of the University twice a year. Only candidates securing 40% or more marks in the test shall be eligible for appearing the Viva-Voce.

Viva-Voce will be conducted within a month of declaration of the result of entrance test by the respective DEANs along with few experts to be nominated by VC.

The Dean shall notify list of the successful candidates in the University website with a provisional enrolment number.

### **2.2. Registration Process:**

- (a) The Chairman of respective RCU will notify the **list of prospective supervisors** with detailed contact address and their areas of present

research interest as well as expertise.

- (b) The selected candidates shall apply for registration in the prescribed form (Appendix-II) along with five copies of the Synopsis within two years from the date of notification of Viva-Voce result. The candidate will propose names of prospective supervisors (maximum three) in order of preference to RCU.
- (c) The RCU will allot one supervisor and one Co-supervisor (if requested for). If Supervisors are not available as per the choice of the research area of the candidate, the same is to be intimated to the candidate and the candidate has to give another list.
- (d) Once the allotment of Supervisor and Co-supervisor (if any) is complete, the RCU will form one DSC for the candidate and nominate the Chairman of the DSC.
- (e) The Chairman of the DSC will intimate the candidate about the date of synopsis seminar. The candidate shall make a presentation on his/her scientific/technical background & preparedness in the broad area of his/her proposed research; which shall be examined by the DSC to assess the proficiency of the candidate. In case the DSC is not satisfied with the proficiency of the candidate it may suggest specific remedial actions. The candidate shall be required to make appropriate changes as suggested by the DSC, and get approval of the DSC through another presentation.
- (f) Once the proficiency of the candidate is found acceptable to DSC, it should recommend the **course work** requirement taking into account the relevance to the research area. A candidate with M.Tech/ M.Arch./ M.Pram/ M.Phil/MBA/MCA degree will take 2 courses (08 credits) in the relevant areas suggested by DSC and Research Methodology (04 credits) as a compulsory course. The candidate has to clear a course with a minimum of C Grade. The course should be of masters level.
- (g) The DSC should recommend the **Place of Research** for the candidate. The research work can be conducted in any of the concerned P.G. Departments of the University/ Constituent / Affiliated colleges and in reputed research centres recognized by the Research Council of the University. The primary pre-requisite in selecting the place of research is the availability of key equipment / computational facilities etc for the proposed work. If the place of research is not approved earlier by the University, the DSC would recommend the same to RCU for approval
- (h) With the completion of steps (e) to (g) above, the DSC would recommend the case to the Director of Examination under intimation to RCU for provisional registration of the candidate to the Ph.D. programme and allotment of a **Registration Number**.
- (i) The **registration number** shall be issued within two weeks of the recommendation by DSC. The documents pertaining to the Doctoral candidate and the relevant DSC shall be maintained by the office of the DEANs.
- (j) The registration of a Doctoral candidate would be valid for a period of five (5) years from the date of registration. Thereafter, the DSC would have to send their justification to the RCU in a prescribed form (Appendix-VII) for renewal for a period of maximum two years with payment of additional fees.

### 2.2.1 Transfer of Registration :

A candidate who is registered for Ph.D elsewhere in any Government Technical University/ University, NITs, IITs, IISc or Central Government institute of repute shall be eligible to transfer his/ her case to the University subject to the following :

- (i) His/ her guide/ co-guide both got transferred to BPUT system.
- (ii) The candidate got transferred to BPUT system and one of the guide is from BPUT system
- (iii) He/ she has completed the course work
- (iv) Obtained the NOC from the registered University clearly mentioning that he/ she has completed the course work as per UGC norms
- (v) Such candidate needs to pay the fee as per Clause 5 (i), 5 (ii) & 5 (iii) at the time of registration and subsequently semester-wise fee and thesis submission fee as per norms as applicable.
- (vi) Candidates need to submit a detailed report from the registered University stating the status of the candidate such as registration date, synopses dates etc.
- (vii) Status quo shall be maintained for such candidate if accepted by the University for registration.
- (viii) RCU shall recommend such applications after due evaluation to Vice Chancellor for approval.

### 3. Supervisors

**3.1** The Supervisor shall be a working faculty member of the BPUT or its constituent / affiliated colleges having a Ph.D. degree in the concerned/allied subject.

**3.2** The Co-Supervisor shall either have eligibility to be a supervisor OR satisfy one of the following criteria.

- (a) Professors/ Readers/ Lecturers of other universities/ Institutes with a minimum 5 years of P.G./10 years of UG teaching experience and a Ph.D. degree in the concerned/allied subject.
- (b) Retired teachers from BPUT/ Constituent / Affiliated colleges/ other Universities/ Institutes, with a minimum 5 years of P.G./10 years of UG teaching experience and a Ph.D. degree in the concerned/allied subject.
- (c) Scientist of reputed research centres or other organizations having Ph.D degree in the concerned subject and possessing sufficient research experience (to be determined by RCU).

**3.3** Co-Supervisor/s is/are necessary in the following conditions:

- (a) In cases where the Supervisor has three or lesser number of years before retirement, a Co-Supervisor shall be mandatory.
- (b) Ordinarily for each candidate, on recommendations of either the supervisor or the DSC, there shall be a co-supervisor.
- (c) **University will give equal weightage to Supervisor as well as Co-Supervisor**

**3.4** A prospective supervisor for a Ph.D. programme should provide a **Bio-data** in the prescribed format (Appendix- III) to the DEANs office.

**3.5** The RCU will approve Supervisors based on their qualification and research experience and research interest.

**3.6 The maximum number of candidates under the guidance of a Supervisor at any given point of time shall be the following:**

Professor: 08

Associate Prof: 06

Asst Prof: 04

### 4. Thesis Preparation and Submission Process

**4.1** A candidate may apply to have the thesis examined anytime after the minimum registration period of 24 months provided the candidate has successfully completed the prescribed course work & other requirements prescribed by the DSC, if any. 24 months will be counted from the date of allotment of the permanent registration number.

**4.2** Candidate is eligible to submit after two years of registration subject to acceptance and approval of the abstract by the DSC and RCU.

**4.3** A candidate is eligible to appear pre-submission Seminar after two years of registration subject to publication/acceptance of two Journal papers having minimum 0.5 Impact factor on Thomson Reuter index. However, publications in IEEE, IET, Elsevier, Springer, ASME/ASCE/ACI/Taylor & Francis/Wiley International will also be accepted.

**4.4** An abstract in five copies (not exceeding 1000 words) shall be submitted by the candidate before submission of the thesis and a presentation will be made to DSC. The thesis needs to be submitted within a maximum period of six months from the date of acceptance of the abstract by the DEANs office.

**4.5** The thesis in the proper format (Appendix- V) is to be submitted in 4 copies (or 5 copies in case of a co-supervisor) including one hard bound copy to the Director of Examination along with a forwarding letter duly endorsed by the Chairman, DSC.

**4.6** At the time of submission of the thesis, the candidate must submit the following documents and shall pay the prescribed fees:

- (a) The original Ph.D. registration letter including the original renewal letter, if any, issued by the University.
- (b) A certificate from the Supervisor to the effect that the candidate has pursued the course of study in accordance with the requirements of the PhD Regulation; the work done by the candidate is original and is within the area of specialization.
- (c) The candidate and supervisor will jointly certify the printout of the plagiarism report generated using specified plagiarism specified software.
- (c) The students must submit copies of all the fees paid for the purpose.
- (d) A Statement of Authorship, i.e. Certificate of Originality (Appendix- X)
- (e) Availability of Thesis, i.e. Student Approval form (Appendix- XI)
- (f) Four copies (Five copies in case of Co-Supervisor) of the thesis with soft cover for the Examiners and three CDs/DVDs of the thesis in specified formats (separate chapters in Open Office/ MS Office Document Format, Tex, LaTeX or other standard Formats) that are convertible to pdf.
- (g) If there is any change due to remarks of the Examiner later, the revised CDs (three CDs) will be submitted. One CD shall be forwarded to library for uploading. Each CD shall be issued an accession code.
- (h) One hard bound corrected copy of the thesis for the university Library (after the final viva voce).

## **5. FEES:**

The candidate will pay the following fees:

- (i) Rs. 10,000/- at the time of application for enrolment
- (ii) Rs. 10,000/- at the time of final registration
- (iii) Rs. 5000/- as one time Research and Development fees at the time of final registration.
- (iv) Rs. 10,000/- for each Semester till five years (or till the submission of thesis.)
- (v) Rs. 20,000/- per Semester In case of renewal of registration (i.e. for sixth and seventh year.

(vi) Rs. 10,000/- at the time of submission of thesis.

However, the above mentioned rates of fees shall be subject revision by the BPUT from time to time.

## 6. Thesis Evaluation and Recommendation Process

**6.1** The DSC shall forward a list of 10 experts to the Chairman RCU for evaluation of the thesis after successful presentation at the pre-submission thesis (i.e. acceptance of the abstract). The experts shall be from Universities/ Institutions/R & D organizations/Industries of repute like IITs, IISc, NITs, NIPER, IISER/NISER/SPA etc. The examiners must be of the rank of Professor/Associate Professors of IITs/IISc or its equivalent organizations.

The RCU may accept/modify the panel giving adequate justification thereof and shall place the approved list of experts to the Vice Chancellor who shall finalize the names of two external examiners other than the Supervisor(s) for evaluation of the thesis. Vice Chancellor will endorse the approved expert names to the Director of Examination for further follow up action.

The approved panel of examiners shall remain valid for two years from the date of approval. In the unlikely case of the list getting exhausted, the process of preparing the panel of examiners shall restart afresh.

**6.2** The Supervisor and / or the Co-supervisor shall be the internal examiner(s) of the thesis and viva voce.

**6.3** The Director of Examination shall mail the abstract to both external examiners immediately to obtain their consent. In case the examiner (s) express their inability/do not respond, the Director of examination shall resubmit the panel list to Vice Chancellor for further approval of the new expert (s). The process will continue till receipt of consent from two examiners.

**6.4** On receipt of consent and receiving the thesis from the students, the thesis should be send to examiners (external as well as internal) within 2 weeks.

**6.5** The examiners are expected to submit their report in the format (Appendix - VI) within 8 weeks of receiving the thesis. A reminder is to be sent thereafter and if no response is received within 2 weeks, the Director Examination is to start the process to send the thesis to the next examiner in the panel.

**6.6** The response from all examiners would be sent to the Chairman, RCU within 1 weeks of receiving the last evaluation (from both external and internal examiners).

**6.7** The RCU Chairman shall convene a meeting of RCU quarterly and discuss the comments of all examiners and recommend the comments of RCU to VC for further orders.

**6.8** The RCU will communicate the decision of VC to DSC and the candidate for further processing and resubmission/modification etc, if any.

**6.9** Once the thesis evaluation is accepted, an open viva-voce examination shall be held with notification to all concerned.

**6.10** The Board for the Viva-Voce examination will consist of Supervisor and/or Co-supervisor and **one of the examiners** who have examined the thesis under approval of the Vice-Chancellor. The Chairman of the DSC will conduct the examination. If the examiner of the thesis does not turn up for Viva-Voce test then the Vice-Chancellor can nominate another examiner not below the rank of a Professor of the concerned discipline to the Viva-Voce. All members of DSC and concerned RCU, Director of Examination should be invited to the Viva-Voce examination.

**6.11** In case the Board of Examiners recommends for conduct of fresh Viva-Voce test, the matter shall be placed before the RCU for a decision. Fresh

Viva -Voce may be allowed by RCU after two months but within six months from the date of first Viva - Voce Examination.

**6.12** The recommendation of DSC after defence seminar (Viva-Voce) should be sent to the Vice Chancellor through Director of Examination for necessary orders.

**6.13** The Director of Examinations will notify the result after approval of the Vice-Chancellor and the candidate may be issued with a provisional certificate clearly mentioning that the degree is awarded as per UGC Regulations 2009.

## **7. Renewal, Cancellation and Change Process**

**7.1** The renewal of registration, if required, will be enforced after 5 years of registration. The first renewal will remain effective for 1 year and subsequent renewal will be for another one year only. The candidate can avail maximum two renewals. The Doctoral candidate has to apply for renewal in the prescribed form (Appendix-VII) with the recommendation of the Supervisor to the Chairman, DSC along with the prescribed fees. The DSC would have to send the justification to the RCU for renewal. After careful scrutiny, RCU may approve the extension, which would be communicated to the Director (Examinations) and the Doctoral candidate.

**7.2** If the Doctoral candidate can not submit the thesis within the stipulated time (including extension period), his registration will be cancelled and he will not be allowed to pursue Ph.D. programme under the University any more.

**7.3** If the thesis is rejected by the examiner(s), he/she will be allowed for re-registration in another topic with another supervisor undergoing the same procedure as described earlier. If the thesis is rejected for the second time then he will be debarred for further registration in any topic under the university.

**7.4** If the supervisor recommends for cancellation of registration of a Doctoral candidate, the same will be placed before the DSC for a decision. After careful observation, DSC may forward its decision to the Chairman, RCU for necessary action. If cancellation is accorded, such cancellation however would not disqualify the Doctoral candidate to continue with Doctoral research under a new supervisor, on a new topic.

**7.5** If a Doctoral candidate wishes to change the Supervisor / Co-supervisor within the period of registration, he has to apply to the Chairman, DSC in the prescribed form (Appendix-VIII) with the consent of the Supervisor/ Co-Supervisor. On recommendation of DSC, RCU may allow such change by replacing the existing Supervisor/ Co-supervisor with proposed Supervisor/ Co-supervisor in the DSC. The registration number of the Doctoral candidate and the date of registration shall remain valid.

**7.6** If a Doctoral candidate wishes to change the area of research, he/she has to apply for fresh registration. The previous registration will be cancelled. The same practice as described earlier will be followed for fresh registration. However, he/she will be exempted from entrance test.

**7.7** If a Doctoral candidate wishes to change the title of the thesis, he/she has to apply to the Chairman DSC in the prescribed form (Appendix-IX) with the recommendation of the Supervisor. If DSC approves, the same be communicated to the Director of Examination under the intimation to the Chairman RCU.

This regulation shall come into force with effect from the academic year 2015-16. However, the candidates already registered have the option for switching to the



present regulation subject to the approval of the RCU. The candidates who have completed the course work after getting admission through entrance test and has followed UGC guidelines from other University may also consider for the registration at BPUT without going through entrance and course work subject to approval by RCU.

**8. Remuneration and Honorarium to the Examiners:**

1. For thesis evaluation: Rs. 5000/- to external examiners only.
2. For Via-Voce examination: Rs. 3000/- to external examiners only.
3. For RCU and DSC members: For each sitting, honorarium is: Rs.2000/- for external members only.

TA/DA will be as actual and eligibility to all DSC and RCU members.

**9. Transfer of candidate from other University (only from Government University).**

The candidate whose guide is either transferred to or the candidate gets a job in BPUT system will have option to transfer his/her registration to BPUT. Status quo of the candidate enrolment shall be maintained. Once accepted the candidate shall follow the stages and pay the fee as applicable from that day. The candidate need to pay one time fee of 5(i), 5(ii) & 5(iii) in addition to other fee mentioned above.

# BIJU PATNAIK UNIVERSITY OF TECHNOLOGY, ODISHA ROURKELA

Form No. BPUT/Ph.D/01

Appendix - I (New)

## Preliminary Application for Ph.D Programme

(To be submitted by the candidate for appearing the Entrance Test / Claiming exemption from Entrance Test)  
(DD No-----/Dt-----Bank Name-----)/(SBI collect No-----)

1. Name of the Candidate : .....
2. Father/Husband's Name : .....
3. Address for Correspondence  

<u>Present Address</u>	<u>Permanent Address</u>
.....	.....
.....	.....
.....	.....
- Contact No. .... Contact No. ....
- Email ID : ..... Sex : .....
4. Date of Birth : ...../...../..... (dd/mm/yyyy)
5. Educational Qualification (HSC onwards)

Paste a recent  
Colour  
Photograph  
(Size 25 x  
35mm)

Degree	University/ Board	Year of Passing	Class/ Division	% of marks / CGPA	Major subject(s)

6. Work Experience (if any) : Yes / No  
 Nature of work : .....  
 (If employed, experience certificate and No Objection Certificate from the employer is to be submitted)
7. Details of Publications, Patents etc. (if any) : .....
8. Faculty in which Research is to be conducted : Engineering / Management / Pharmacy/ Arch/  
Computer Application & Sciences
9. Branch / Specialization :  
(ex. Mechanical / Electrical /Civil/Electronics/ HRM / Finance / Marketing / Pharmacy/.....)
10. Are you claiming for exemption of Entrance Test : Yes / No  
(If yes, justify the same with proper document)

**Signature of the candidate**

**For Official Use**

ENTRANCE TEST : Exempted / Not Exempted

**Registrar / Director, Examination**

**BIJU PATNAIK UNIVERSITY OF TECHNOLOGY, ODISHA  
APPLICATION FOR REGISTRATION FOR Ph.D.**

To be submitted after the University declares the candidate to be eligible for registration

(To be filled in capital letters)

1. Name of the candidate :
2. Father/Husband's Name :
3. Address for Correspondence :  
Present :  
Permanent :  
Contact No. :  
E-mail ID :
4. Date of Birth :  
(Supported by HSCE or equivalent certificate)
5. Educational Qualification (HSCE onwards)

Degree	University/ Board	Year of Passing	Class/ Division	Major subject(s)

6. (a) Work Experience (if any) :  
(b) Nature of work experience :
7. Discipline & area in which research is to be conducted :
8. Proposed title of the Ph.D. thesis  
.....  
.....
9. Institution at which Ph.D. is to be pursued.
10. Name, address, mobile No. & e-mail of the Supervisor(s)

**Supervisor**  
**Name**                      **Institution of**   **Area of**  
**Highest Degree Affiliation**   **Specialization**

**Co-Supervisor**  
**Name**                      **Institution of**   **Area of**  
**Highest Degree Affiliation**   **Specialization**

## Signatures of Consent

**Supervisor**

**Co-Supervisor**

11. Permission of the Head of the Institution where work is proposed to be carried out.

Certified that the undersigned has no objection for providing necessary facilities of the Institute / Department to the candidate to pursue his Doctoral Research work as a registered candidate under Biju Patnaik University of Technology (BPUT), Odisha.

**SEAL Signature**

**Name of the Head of the Institute/Dept.**

12. Undertaking by the Candidate

(i) I would be willing to work on the above subject. The entire results of the work shall be the joint intellectual property of the University, the above supervisor(s) & myself.

(ii) Certified that the subject proposed for the Ph.D. work has not been submitted to any other University/Institute for registration for Ph.D./D.Sc./D.Litt degree; in case facts to the contrary are found, I would be willing to quit the system.

**Signature of the Candidate**

---

**BIJU PATNAIK UNIVERSITY OF TECHNOLOGY, ODISHA**  
INFORMATION SHEET OF PROSPECTIVE SUPERVISORS

**[A] Background Information**

1. Name:
2. Designation:
3. (a) Organization:  
(b) Contact Details :  
(e-mail/Tel. No.)
4. Date of obtaining PhD and higher degree:
5. Experience:
  - (a) Teaching (subject & years of Experience)
    - (i) Under graduate
    - (ii) Post-graduate
  - (b) Research (Details of earlier Ph.D. guidance, if any; details of Publications, patents etc.)
  - (c) Sponsored Projects if any (details of funding agency, period, amount)

**[B] Information on Research Proposal**

(For each area proposed, a separate information sheet to be submitted)

1. Area of Proposed Research (along with a brief background) :
2. Scope of Proposed Work:
3. Methodology (including equipment etc. needed & their availability) :
4. Novelty of the Envisioned Work:
5. Selected References (Publications / Patents etc.):

**Signature**

---

**BIJU PATNAIK UNIVERSITY OF TECHNOLOGY, ODISHA**

**Quarterly Progress Report No.** \_\_\_\_\_

(To be filled in by the Chairman, DSC and submitted to RCU)

1. Name of the Doctoral candidate
2. Registration No.
3. Title of the Thesis
4. Total number of meetings held so far (with dates)
5. Progress (against identified quarterly activity mile stones signed by supervisors)
  - Excellent
  - Good
  - Satisfactory
  - Needs Improvement
  - Unsatisfactory

(In case of last two observations, suggest remedial measures)

6. Difficulties encountered, if any
7. Status of Publications / Patent

(including steps for the above)

8. Any other relevant information

**CHAIRMAN, DSC**

**Date:**

---

**BIJU PATNAIK UNIVERSITY OF TECHNOLOGY, ODISHA****Format for Preparing the Thesis**

The thesis should contain the followings

1. Certificate from the Supervisor(s) in the following format

**CERTIFICATE**

*This is to certify that the thesis entitled “ \_\_\_\_\_ ” being submitted by Ms/ Mr \_\_\_\_\_ to the Biju Patnaik University of Technology, Odisha , for the award of the degree of Doctor of Philosophy in Engineering/ Architecture/ Computer Science/ Pharmacy/ Management/ Science/ Humanities is a bonafide research work carried out by her/him under our/my supervision. The results presented in this thesis have not been submitted elsewhere for the award of any other degree.*

*In our/my opinion, this work has reached the standard fulfilling the requirements for the award of the degree of **Doctor of Philosophy** in accordance with the regulations of the University.*

2. Acknowledgement
  3. List of symbols and abbreviations
  4. List of Tables
  5. List of Figures
  6. Abstract
  7. Suggested Chapterizations (for guidelines purpose only)
    - Chapter - 1 Introduction
    - Chapter – 2 Literature survey and Scope of the present work
    - Chapter – 3 Experiment / Theory
    - Chapter – 4 Result and Observation
    - Chapter – 5 Analysis
    - Chapter – 6 Conclusion
    - Chapter – 7 Scope for future work
    - Chapter – 8 List of publications
- Reference  
Appendix

The appendix should contain computer programming (if any), the sample, calculations, explanation of theory (if any) etc. which will be used as reference.

**BIJU PATNAIK UNIVERSITY OF TECHNOLOGY, ODISHA**

**RECOMMENDATION ON Ph.D. THESIS**

**(From Examiners)**

**Name of the Candidate :**

**Title of the thesis :**

---

[Please send **detailed report** on the thesis on separate sheet, and **specific recommendation** by ticking any one of the following (ticking inside the box)]

- The thesis **may be accepted** for award of the Ph.D degree

**OR**

- The thesis is acceptable subject to clarification of **certain points at the time of viva-voce** (please enclose list of the points).

**OR**

- The thesis is acceptable subject to modification / clarification / revision (please enclose your suggestions for the modification etc. desired) After modification the **thesis should not be referred back to me.**

**OR**

- The thesis is acceptable subject to modification / clarification / revision (please enclose your suggestions for the modification etc. desired) After modification the **thesis should be referred back to me for final assessment.**

**OR**

- The thesis be **rejected** (please enclose your comments)

Place : \_\_\_\_\_ Signature of the Examiner \_\_\_\_\_

Date : \_\_\_\_\_ Name of the Examiner \_\_\_\_\_

\* It may be borne in mind that that the standard of a Ph.D. dissertation at the Biju Patnaik University of Technology (BPUT), Odisha is expected to be comparable to that from any recognized University / Institute of higher learning in any country.

---



**BIJU PATNAIK UNIVERSITY OF TECHNOLOGY, ODISHA**

**Application for Renewal of Registration**

1. Name of the Doctoral candidate:
2. Ph.D. Registration No.:
3. Title of the thesis:
4. Date of registration:
5. Scheduled Period of completion of the work:
6. Reasons for non-completion in due time:
  
7. (a) Expected time of completion of work  
(b) Expected time-frame for submission of thesis  
and period of extension sought

**Signature of the Doctoral candidate**

**Recommendation of the Supervisor**

**Signature of the Supervisor**

**Recommendation of the DSC**

**Signature of the Chairman, DSC**

---

**BIJU PATNAIK UNIVERSITY OF TECHNOLOGY, ODISHA**

**Application for Change of Supervisor / Co-Supervisor**

1. Name of the Doctoral candidate:
2. Ph.D. Registration No.:
3. Title of the Thesis:
4. Name of the Supervisor / Co-supervisor
5. Name of the proposed new Supervisor/ Co-supervisor
6. Reasons for change of Supervisor
7. Change in the scope of research, if any

**Signature of the Doctoral candidate**

**Consent / comments of the present supervisor**

**Signature of the present Supervisor**

**Consent / comments of the proposed supervisor**

**Signature of the proposed Supervisor**

**Recommendation of the Chairman, DSC**

**Signature of the Chairman, DSC**

---

**BIJU PATNAIK UNIVERSITY OF TECHNOLOGY, ODISHA**

**Application for Change of Title of the Research Work**

1. Name of the Doctoral candidate:
  
2. Ph.D. registration No.
  
3. Date of registration
  
4. Present title of the research work
  
5. Proposed title of the work
  
6. Reasons for change of title
  
7. Change in the area / scope of research  
( give details)

**Signature of the Doctoral candidate**

**Recommendation of the Supervisor**

**Signature of the Supervisor**

---

**BIJU PATNAIK UNIVERSITY OF TECHNOLOGY, ODISHA**

**Certificate of Originality**

The research work embodied in this thesis entitled “ \_\_\_\_\_ ” has been carried out by me at the Department of \_\_\_\_\_, \_\_\_\_\_ University/College. The manuscript has been subjected to plagiarism check by \_\_\_\_\_ software. I declare that the work and language included in this thesis is free from any kind of plagiarism.

**Name and Signature of the Candidate**

**Name and Signature of the Supervisor**

**BIJU PATNAIK UNIVERSITY OF TECHNOLOGY, ODISHA**

## Student Approval Form

Name of the Author	
Department	
Degree	
University	
Guide	
Thesis Title	
Year of Award	

## Agreement

1. I hereby certify that, if appropriate, I have obtained and attached hereto a written permission/statement from the owner(s) of each third party copyrighted matter to be included in my thesis/dissertation, allowing distribution as specified below.

2. I hereby grant to the university and its agents the non-exclusive license to archive and make accessible, under the conditions specified below, my thesis/dissertation, in whole or in part in all forms of media, now or hereafter known. I retain all other ownership rights to the copyright of the thesis/dissertation. I also retain the right to use in future works (such as articles or books) all or part of this thesis, dissertation, or project report.

Conditions:

1. Release the entire work for access worldwide	
2. Release the entire work for 'My University' only for 1 Year 2 Year 3 Year and after this time release the work for access worldwide.	
3. Release the entire work for 'BPUT' only while at the same time releasing the following parts of the work (e.g. because other parts relate to publications) for worldwide access. a) Bibliographic details and Synopsis only. b) Bibliographic details, synopsis and the following chapters only. c) Preview/Table of Contents/___ page only.	
4. View Only (No Downloads) (worldwide)	

Signature of the Scholar

Signature and seal of the Guide

Place : \_\_\_\_\_

Date : \_\_\_\_\_