

BIKANER TECHNICAL UNIVERSITY
BIKANER



ORDINANCES

DEGREE
OF
DOCTOR OF PHILOSOPHY

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DEGREE OF DOCTOR OF PHILOSOPHY**

PREAMBLE

Bikaner Technical University, Bikaner offers postgraduate programs leading to the award of degree of Doctor of Philosophy through its Departments /Research Centers. The award of degree of Doctor of Philosophy is in recognition of high academic achievements, independent research and application of knowledge to the solution of technical and scientific problems in Engineering, Technology, Computer Applications, Applied Sciences, Management, Humanities and English. Creative and productive inquiry is the basic concept underlying the research work.

The academic programme leading to the degree of Doctor of Philosophy is broad-based and involves minimum course requirement and research thesis. The University also encourages interdisciplinary areas through a system of co-supervision through its academic departments and research centers and provides excellent opportunities for such programs. The University undertakes sponsored research and development projects from industrial and other organizations in the public as well as private sector.

The degree of Doctor of Philosophy shall be abbreviated as PhD. The degree of Doctor of Philosophy is granted for research work in areas recognized by the Academic Departments/bodies of the University subject to the conditions and regulations contained hereinafter.

The research work shall be an original work characterized either by the discovery of facts, or by a fresh approach towards the interpretation and application of facts, or development of equipment making a distinct advance in instrument technology. It shall evince the research scholar's capacity for critical examination and sound judgment and shall represent original contribution to the existing knowledge.

The degree of Doctor of Philosophy (PhD) of the Bikaner Technical University, Bikaner shall be conferred on a research scholar who fulfills all the requirements specified in these Ordinances and Regulations. The degree of Doctor of Philosophy will be awarded on the research work carried out by the research scholar.

DEFINITIONS

Note: 'He' and 'His' imply 'he'/'she' and 'his'/'her', respectively here in after.

- i. **“Applicant”** shall mean an individual who applies for admission to the PhD programme of the Bikaner Technical University, Bikaner on a prescribed Application Form.
- ii. **“Caretaker Supervisor”** shall mean a member of the academic staff appointed to look after the research scholar’s research interests in the absence of the supervisor and after the submission of the thesis.
- iii. **“Co-supervisor”** shall mean an additional supervisor approved by the Department Research Committee to help in the accomplishment of the research work of the research scholar.
- iv. **“Course Advisor”** shall mean a faculty member nominated by the Department/Research Centre to chalk-out the programme of study of a student registered for the PhD and to advise him on the course to be taken by him. If a supervisor(s) has already been appointed, he shall be the Course Advisor for that student.
- v. **“Course Work”** shall mean courses of study prescribed in the Department/ Research Centre through the Course Advisor to be undertaken by a student registered for the PhD degree.
- vi. **“Dean (Research)”** shall mean the Dean (Research) to be appointed by the vice Chancellor. All the matters related to PhD degree shall be routed through Dean (Research).
- vii. **“Degree”** shall mean the Degree of Doctor of Philosophy (PhD) of the Bikaner Technical University, Bikaner.
- viii. **“DRC”** shall mean Department Research Committee.
- ix. **“RAC”** shall mean Research Advisory Committee.
- x. **“Educational Institution”** shall mean those colleges which offer Bachelor’s or higher degree.
- xi. **“Full-time Research Scholar”** shall mean person registered for the PhD degree devoting full time for completing the degree requirements.
- xii. **“Minimum Registration Period”** shall mean the minimum period for which a research scholar must be registered, prior to submission of the thesis.
- xiii. **“ODEC”** shall mean Oral Defense Evaluation Committee.
- xiv. **“Part time Research Scholar”** shall mean a person who is registered for the PhD degree and will devote part of his time towards this pursuit and devote part of time towards the discharge of his official obligations.
- xv. **“BTU”** shall mean Bikaner Technical University, Bikaner.
- xvi. **“Registration Period”** shall mean the length of time span commencing with the date of initial registration at the University/ Research Centre of full-time basis.

- xvii. **“Research Board”** shall mean the Research Board of each faculty of the Bikaner Technical University, Bikaner.
- xviii. **“Research Centre”** shall mean Research Centre approved/ recognized by the University, where research work is permitted to be pursued.
- xix. **“Research Scholar”** shall mean a person registered for the PhD degree programme.
- xx. **“Residential Requirement”** shall mean the minimum period for which a Research scholar must attend the University/ Research Centre on full time basis.
- xxi. **“Sponsored Research Scholar”** shall mean a full time research scholar *who* receives complete financial support from the sponsoring organization i.e. his employer.
- xxii. **“Supervisor”** shall mean a faculty member of the University/ Affiliated Institute / College or any other person approved by the research board on the recommendation of Department Research Committee to supervise the research work of a research scholar.
- xxiii. **“University”** shall mean the Bikaner Technical University, Bikaner.

ORDINANCES

O.1 ELIGIBILITY FOR ADMISSION

O.1.1 Eligibility for full time research Scholar

A candidate possessing the qualifications in appropriate areas and fulfilling the eligibility criteria as prescribed below, shall be eligible for admission to PhD programme in the respective disciplines of University:

- O.1.1.1 Master's degree in the appropriate discipline of any recognized University/Institute or equivalent, with a minimum of 55% marks in aggregate (of all the years/semesters) where marks are awarded or minimum equivalent Cumulative Grade Point Average (CGPA) as defined by AICTE.
- O.1.1.2 A relaxation of 5% or equivalent grade point in the minimum eligibility shall be applicable to the applicant belonging to the categories of SC/ST/OBC (Non Creamy Layer) and Differently abled persons or categories decided by UGC or those who had obtained their Masters' Degree prior to 19th September, 1991. The eligibility marks of 55% (or an equivalent grade in a point scale wherever grading system is following) and the relaxation of 5% to the categories mentioned above are permissible based only on the qualifying marks without including the grace marks procedure.
- O.1.1.3 Candidates for full time research programme shall preferably be permitted having sponsorship/ assistantship/ fellowship/ any financial support from university/ state or national level agency, etc., however, candidates without any financial support as above, shall not be disqualified to take admission to full time PhD programme.

O.1.2 Eligibility for Part-time Research scholar

In addition to the educational qualifications mentioned at O.1.1.1 and O.1.1.2 the applicant shall prove the following to the satisfaction of the DRC (Departmental Research Committee):

- i. Permission of the employer in writing to the **candidate**, to pursue PhD programme along with his regular duties in the organization he is employed.
- ii. Availability of all facilities for pursuing research at the **candidate's** parent organization/ place of work in the chosen field of research.
- iii. Certificate issued by the employer to allow him to fulfill the residential requirement during course work and contact days with supervisor after completion of the course work as notified by University from time to time.

O.2 RESEARCH BOARD CONSTITUTION

- O.2.1** There shall be a Research Board for each faculty. The Research Board shall consist of the following:
- i. Vice Chancellor (Chairperson)
 - ii. Pro- Vice Chancellor
 - iii. Dean of the Faculty
 - iv. Professor by rotation in order of seniority of each University Teaching department/ Centre and where there is no Professor, Associate Professor (with Doctoral degree) by rotation in order of seniority for a term of three years.
 - v. Dean (Research)
 - vi. Whenever there is a PhD proposal from a department which does not have any University teaching department, a subject expert may be nominated by the Vice Chancellor.
- O.2.2** One-third of the members shall form the quorum. In the absence of the Vice Chancellor and the Pro-Vice Chancellor, the senior-most Professor in the University teaching departments present at the meeting will preside. The recommendation of the Research Board is to be reported to the Academic Council. The Research Board shall meet as often as required but at least once in every semester.

O.3 DEPARTMENT RESEARCH COMMITTEE

- O.3.1** The vice Chancellor shall constitute a Department Research Committee (DRC) for each PhD Programme on the recommendation of Dean (Research). The DRC shall consist of following members:
- i. Professor by rotation in order of seniority of each University teaching department/Centre, and where there is no Professor, Associate Professor (with Doctoral degree) by rotation in order of seniority-Chairperson
 - ii. Three faculty members with Doctoral degree representing different discipline of the department out of which two from the University department and one from the affiliated institute nominated by Vice Chancellor on the recommendation of Dean (Research) – Member(s)
 - iii. One Vice Chancellor’s nominee – Member
- O.3.2** If required additional members may be nominated by the Vice Chancellor for a particular specialization on the recommendation of DRC.
- O.3.3** If a department does not exist in the University, or has less than requisite number of eligible faculty members on rolls, the vice Chancellor on the recommendation of Dean (Research) may appoint external faculty members to fill in the shortage. Dean (Research) shall propose the names of external faculty members of the subject area. The DRC will consist of minimum five members including vice Chancellor’s nominee.
- O.3.4** The term of all the members including Chairperson shall be three years. In the absence of Chairperson, the next senior most member shall Chair the meeting.

- O.3.5** Each member of the DRC should qualify the minimum eligibility requirements of a research supervisor.
- O.3.6** Three members of DRC shall constitute the quorum for a meeting.
- O.3.7** The PhD programmes at recognized Research Centre shall be conducted under the supervision of the respective DRC.

O.4 RECOGNITION OF RESEARCH CENTRE IN AFFILIATED COLLEGES

O.4.1 Approval for Research Centre

- O.4.1.1** Colleges may be considered eligible to offer PhD program only if they satisfy the availability of eligible research supervisors, required infrastructure and research promotion facilities as per these regulations.
- O.4.1.2** Post graduate Department of Colleges, Research Laboratories of Government of India/State Government with at least two PhD qualified teachers/ scientists/ other academic staff in the department concerned along with required infrastructure, supporting administrative and research promotion facilities as per UGC Regulations shall be considered eligible to offer PhD programme. Colleges should additionally have the necessary recognition by the Institution under which they operate to offer PhD programme.
- O.4.1.3** Colleges with adequate facilities for research as mentioned below alone shall offer PhD program
- i. In case of science and technology disciplines, exclusive research laboratories with sophisticated equipment's as specified by the Institution concerned with provision for adequate space as per research scholar along with computer facilities and essential software and uninterrupted power and water supply.
 - ii. Ear marked library resources including latest books, Indian and International journals-journals, extended working hours for all discipline, adequate space for research scholars in the Department library for reading, writing and storing study and research materials.
 - iii. College may also access the required facilities of the neighboring Institutions/Colleges or of those Institutions/ Colleges/ R&D Laboratories/ Organizations which have required facilities.
- O.4.1.2** Dean (Research) shall appoint a committee for carrying out preliminary scrutiny of the applications received. Based on the recommendations, Dean (Research) shall refer the matter to Director (Academics) for inspection of college to ascertain the ground situation. The inspection report shall include videography of the infrastructural facilities including the laboratories, computational facilities, library and software details etc. Such inspection report shall be evaluated by Research Board before granting the approval.

O.4.2 Extension of Approval for Research Centre

The recognition as approved research Centre shall be given initially for a period of five years. The suitability shall again be assessed after every five years. If the research Centre does not satisfy the infrastructure and academic requirements, no further admission of PhD student shall be permitted at the research Centre for at least next two years, after which a fresh application may be entertained for grant of approval of the research centre.

O.5 RESEARCH SUPERVISOR

O.5.1 All research work leading to the award of PhD degree shall be carried out under the supervision of the registered research supervisor(s) of the University either in the University Department/ Institution/ College or at approved research centers of the University.

O.5.2 The Following persons will be eligible to act as research Supervisor:

- i. All faculty members who were recognized as Research supervisors by the respective Universities before the implementation of UGC Regulations-2016 for PhD shall continue to act as Research Supervisors.
- ii. Any regular Professor of the University/ Institution/ Deemed to be University/ College with at least five research publications in refereed journals and any regular Associate/ Assistant Professor of the University/ Institution/ Deemed to be University/ College with a PhD Degree and at least two research publications in refereed journal shall be recognized as Research Supervisor. In areas/ disciplines where there are no or very limited number of refereed journals, the Institution may relax the above condition for recognition of a person as Research Supervisor with reason recorded in writing.
- iii. Only a full time regular teacher of concerned University/ Institution, Deemed to be University/ College can act as a supervisor. The external Supervisors are not allowed. However, Co-Supervisors can be allowed in interdisciplinary areas from the department of the same institute or other related institutions with approval of Research Board.
- iv. In case of topics that are of inter disciplinary nature where the department concerned feels that the expertise in the department has to be supplemented from outside, Department may appoint a Research Supervisor from the Department itself, who shall be known as Research Supervisor and a Co-Supervisor from outside the Department/ Faculty/ College/ Institution on such terms and conditions as may be specified and agreed upon by the consenting Institution/ College.

O.5.3 A faculty member willing to act as research supervisor shall have to apply for registration as research supervisor through Dean (research) in prescribed form to

the Research Board. The Research Board shall notify the approved research supervisors of the University.

- O.5.4** The joint supervisor from same department/ discipline may be permissible in special cases provided a valid justification is established by the DRC.
- O.5.5** In special circumstances, full-time research may be permitted to carry out his research outside the University/ Research Center subject to the approval by the Research Board on the recommendations of DRC. In such cases one co-supervisor is a must from the approved work place.
- O.5.6** No Person shall be allowed to supervise one's close relations. The term close relation includes spouse, children, sister, brother, grandchildren, nephew, niece, grandniece, grandnephew, uncle, aunt, first cousin, son-in-law, daughter-in-law and nephew, niece, grand niece and nephew of supervisor's wife.

O.5.7 Appointment of Supervisors and Caretaker Supervisor

A faculty member appointed as a PhD supervisor is normally expected to be available to a research scholar in the Institution/ University till the thesis is submitted. However, under unavoidable circumstances, such as: long leave for more than twelve months, resignation; retirement; or death; a supervisor may not be available to the research scholar. In such special case, appointment of new supervisor(s) will be regulated as under:

O.5.7.1 Supervisor proceeding on long leave for more than twelve months

- i.** Where more than one supervisor exists, the supervisor proceeding on long leave for more than twelve months can continue to be a supervisor, provided the supervisor existed for more than eighteen months.
- ii.** Where only one supervisor exists, another supervisor may be recommended to be appointed by the DRC in cases where a student has not yet submitted his synopsis.
- iii.** If the synopsis of the thesis has been submitted before the supervisor proceeds on leave, he will continue to be the supervisor and only a caretaker supervisor will be appointed.
- iv.** If the thesis has been submitted before the supervisor proceeds on leave, he will continue to be the supervisor and only a caretaker supervisor will be appointed.
- v.** Further, if a major revision becomes necessary, and the sole supervisor is on leave, he should be asked to specifically state whether he would effectively help the student carrying out the major revisions within a reasonable period. In case the sole supervisor expresses his inability due to one reason or the other, the caretaker supervisor, if he provides the required

help in carrying out the major revision, will automatically be treated as a co-supervisor of that research scholar.

O.5.7.2 If a supervisor proceeds on leave for a period less than 12 months initially, but later extends his leave beyond 12 months, the procedure as per O.5.7.1 shall be followed.

O.5.7.3 Retirement:

A faculty member who is due to retire within the next two years may be appointed as a co-supervisor and can continue to be the co-supervisor even after his retirement provided the DRC is convinced of his availability / continued guidance to the student. In other cases, a faculty member on retirement may continue as a supervisor / co-supervisor, if reemployed or appointed as Emeritus Fellow; or, Honorary Professor; or, if the synopsis of the thesis has been submitted. Appointment of another supervisor, if necessary, shall be as per the guidelines, as the case may be.

O.5.7.4 Resignation: A new supervisor shall be appointed, as per the guidelines at point O.5.7.1.

O.5.7.5 A Supervisor dies

A new Supervisor will be appointed, if necessary, by Research Board on the recommendation of DRC.

O.5.7.6 Limit for supervising Research scholars by Supervisors

The maximum limit for supervising PhD students at a time shall be governed by the Regulations.

O.6 ADMISSION PROCEDURE

O.6.1 Applications for admission to the PhD programme shall be invited during an academic year for the available vacancies. The admission to the PhD programme shall be made through BTU Doctoral Admission Test (BTU-DAT) as per procedure laid down in the Regulations.

O.6.2 DRC and all supervisors of the department will interview qualified applicants in order of merit of BTU-DAT and allot the supervisor(s) on the basis of specialization of supervisors, interest area of the applicant and mutual consent of supervisor(s) and the applicant till all the vacancies are filled as per the Regulations.

O.6.3 Every successful applicant shall be required to register for the PhD programme, as research scholar. A research scholar will be required to renew the registration every semester, till the submission of the thesis as per the Regulations.

O.6.4 Those applicants who fail to get admission to a PhD programme, after qualifying the BTU-DAT, due to any reason in an academic session, shall be required to reappear and qualify BTU-DAT again.

O.7 COURSE WORK

A research scholar shall be required to undertake and successfully complete the course work and carry out his research work at the University/ Research Centre, under the guidance of approved supervisor(s) as per the Regulations.

O.8 COMPREHENSIVE EXAMINATION

Research scholar registered in the PhD programme must pass a comprehensive examination designed to test the overall comprehensiveness of the research scholar in the various subjects of his intended area of research as specified by supervisor. This examination is meant to test the student's comprehensive knowledge both in breadth across the general field of study and in depth within the area of specialization. A research scholar can appear in the comprehensive examination only after he has successfully completed the course work requirements laid down in R.6.

O.9 RESEARCH PROPOSAL

- O.9.1 Subsequent upon successful completion of comprehensive examination each research scholar shall submit his research proposal as approved by the allotted supervisor(s) to Head of the Department concerned for consideration of the DRC.
- O.9.2 Each student shall present his research proposal before the committee consisting of the DRC members, supervisor(s) and one subject expert (to be appointed by the DRC Chairperson from a panel of names suggested by the supervisor).
- O.9.3 The committee shall examine the research proposal and suggest suitable modification / alterations if any. The student shall incorporate suggested changes and resubmit the research proposal to the satisfaction of the committee.
- O.9.4 The committee shall submit the research proposal to the Research Board for approval.
- O.9.5 If at any stage, the student wishes to modify the research plan and/or change the title of the thesis approved earlier, supervisor shall arrange the proposal to be put before the committee and the student shall make a presentation before it with the details of the proposed modifications and its justifications. The committee shall make appropriate recommendations for approval of Research Board.

O.10 PERFORMANCE MONITORING

- O.10.1 Progress of the research work of all research scholars in the department shall be reviewed at the end of each semester by respective DRC. The DRC shall constitute Research Advisory Committee (RAC) consisting of the supervisor(s) and one subject expert from amongst the panel suggested by supervisor(s).

O.10.2 Each research scholar shall appear before the RAC once in six months to make a presentation of the progress of his work for evaluation and further guidance. Six monthly progress reports shall be submitted by the RAC to the Dean/Director (Research) and copy to the Research Scholar, till the thesis is submitted. The RAC shall evaluate and send the evaluation report in the prescribed form to the DRC Chairperson for appraisal with anyone of the following recommendations.

- i. Allowed to enroll in the next semester and continue research;
- ii. Allowed to enroll and continue research but with suggestions for improvement;
- iii. Advised to discontinue as the performance is very poor. In that case the matter shall be referred to the Research Board for final decision.

O.11 DURATION OF RESEARCH WORK

O.11.1 PhD programme shall be for a minimum period of 3 years (six semesters) including course work and maximum of 6 years (twelve semesters) for full time research scholars and 4 years (eight semesters) including course work and maximum of 7 years (fourteen semesters) for part time research scholars. The date of initial registration shall be the date on which the applicant formally registers as research scholar for the first time in the beginning of a semester for the PhD programme, which shall also be the date of his joining the programme for all intents and purposes.

O.11.2 Under exceptional circumstances the extension beyond the above limits may be permissible for a further period of maximum two semesters on case to case basis by the university in the prescribed form to the Chairperson DRC during the twelfth semester in case of full time student and the fourteenth semester in case of a part time student. After DRC recommends the case, the same shall be forwarded to the Research Board for approval. No further extension shall be granted after this period and candidates shall be required to re-register afresh beyond this period.

O.11.3 Women candidates and persons with disability (more than 40% disability) may be allowed a relaxation of two years in maximum period. In addition the women candidates may be provided maternity leave / child care leave once in entire duration for up to 240 days.

O.12 FULL TIME PhD TO PART TIME PhD CONVERSION

O.12.1 In special circumstances a full time research scholar, after completion of the minimum period of submission of thesis as per O.11.1 may be permitted to convert his status to a part time research scholar on the recommendation of supervisor and DRC and subject to approval of the Research Board.

O.12.2 Conversion from full time to part time may also be considered after completion of course work by Research Board on recommendation by supervisor and DRC.

O.13 EVALUATION OF RESEARCH WORK BEFORE THESIS SUBMISSION/ PANEL OF EXAMINERS

O.13.1 Pre-Thesis submission Seminar

- i. On the recommendation of RAC, DRC shall assess the work through a pre-thesis submission seminar. The research scholar can submit the synopsis only if the DRC is satisfied about the quality of the work for submission as a PhD thesis. The DRC Chairperson shall forward recommendations to Research Board and copy to Dean (Research)/ Director Research.
- ii. The pre-thesis seminar shall be adequately notified by supervisor so as to enable interested faculty members and students to attend it.

O.13.2 Synopsis

The research scholar shall submit eight copies of the synopsis after the presentation of Pre-Thesis submission Seminar.

O.13.3 Panel of Examiners

- i. University shall prepare an exhaustive panel of experts in various subject areas through the respective DRC.
- ii. A panel of eight experts in the area of the PhD thesis shall be suggested by the Supervisor(s) while forwarding the title and synopsis of the thesis in a confidential cover to the Dean (Research). The panel so recommended shall include at least 50% of the examiners from abroad / premier institutions like IITs/CSIR Laboratories/ Central universities/ DRDO/ NITs/ IIMs/ IITMs/ IITs or eminent scholars from outside the state. The examiner should be eminent experts in the subject areas of the research scholar's thesis with proven record.
- iii. Vice Chancellor shall be authorized to send the thesis to an appropriate expert out of the list prepared at Para O.13.3 (ii). However, he shall be authorized to add more experts and send thesis for evaluation.
- iv. No close relations of candidate shall be permitted to act as examiner(s).

O.13.4. PLAGIARISM

While submitting for evaluation, the dissertation/thesis shall have an undertaking from the research scholar and a certificate from the Research Supervisor attesting to the originality of the work, vouching that there is no plagiarism and that the work

has not been submitted for the award of any other degree/diploma of the same Institution where the work was carried out, or to any other Institution. Institute/ Research Center shall have well developed software and gadgets to detect plagiarism and other forms of academic dishonesty.

O.14 THESIS SUBMISSION

The thesis should bear evidence of the research scholar's capacity for analysis and judgment as well as his ability to carry out independent investigation, design or development. No part of the thesis or supplementary published work shall have been submitted for the award of any other degree or diploma.

O.14.1 A research scholar may be permitted to submit his thesis only if he has published at least two papers in peer reviewed International Journal and at least one paper in National Journal/International Conference/National Conference.

O.14.2 The thesis shall be written in English in the specific format and shall contain a critical account of the research work carried out by the research scholar. It should be characterized by discovery of facts or fresh approach towards interpretation of facts and theories or significant contribution to knowledge or development or a combination of these. Its format, front page/cover format and colour codes of the binding and copyright certificate shall be as specified by the University from time to time.

O.14.3

- i. Initially the research scholar is required to submit five copies of the thesis in soft binding/spiral binding for evaluation of the thesis.
- ii. The research scholar shall also submit the data/software etc used for analysis and deriving the results, to DRC.

O.15 BOARD OF EXAMINERS FOR THESIS EVALUATION

On receipt of the title and synopsis of the thesis, the Dean (Research) shall submit the panel of examiners suggested by supervisor, for each research scholar, to the Vice Chancellor for constituting Board of Examiners (BOE). The BOE shall consist of three examiners as:

- i. One internal examiner i.e., supervisor (category I)
- ii. One external examiner from the approved panel (Category II)
- iii. One external examiner from the approved panel who shall be from abroad/premier institutions as laid down in O.13.3 (ii) (Category III)

A person working in the organization/ institution where research scholar is employed cannot be appointed as an external examiner.

O.16 THESIS EVALUATION

- O.16.1** The thesis shall be evaluated by Board of three examiners (as per O.15)
- O.16.2** The entire process of evaluation of PhD thesis shall be completed within a period of six month from the date of submission of thesis.
- O.16.3** Each examiner will be requested to submit a detailed assessment report and his recommendations on the prescribed form to the Dean (Research) within three months of the date of receiving the thesis.
- O.16.4** In the event of the thesis report not being received from an examiner within a period of three months, the Dean/Director (Research) may seek approval of Vice Chancellor for appointment of another examiner.
- O.16.5** (i) Examiners will examine the thesis individually with a view to judge whether the thesis is a piece of research work characterized by;
- The discovery of facts, and/or
 - A fresh approach towards interpretation and application of facts or theories, and/or
 - Distinct advancement in technology/ science/ techniques etc.
- (ii) The examiner will be required to give his opinion about research scholar's capacity for critical examination and sound judgment. All examiners will submit the reports on the prescribed form clearly indicating one of the following four definite recommendations:
- The thesis is recommended for the award of PhD, or
 - The thesis is recommended for the award of PhD Degree subject to the research scholar giving satisfactory answers to queries, specifically mentioned in the report, at the time of Viva-voce examination, or
 - The research scholar be allowed to resubmit his thesis in the revised form, or
 - The thesis is rejected.
- O.16.6** The University shall take a decision on the basis of recommendations of the examiners according to Table given below:

S. No.	Recommendation of Examiners			Decision
	1	2	3	
1	Accept(without viva voce)	Accept(with out viva-voce)	Accept(with out viva-voce)	Thesis Accepted
2	Accept	Accept	Accept	Thesis Accepted
3	Reject	Reject	Reject	Thesis Rejected
4	Accept	Accept	Reject	*A
5	Accept	Reject	Reject	*B
6	Accept	Revise	Reject	*C
7	Accept	Revise	Revise	

8	Revise	Revise	Revise	
9	Revise	Revise	Reject	
10	Revise	Reject	Reject	Thesis Rejected
11	Accept	Accept	Revise	*C

*A If the thesis is recommended to be rejected by one of the three examiners, fourth examiner (from the same category as laid down in) shall be appointed from the approved panel of examiners. In case the fourth examiner, after evaluation, recommends:

- (i) Rejection, the thesis would be rejected
- (ii) Acceptance, the thesis would be accepted after the viva-voce is conducted.
- (iii) Revision, the thesis would be suitably revised with in a period of one year and resubmitted to the same examiner for reevaluation, till acceptance/ rejection, and thereafter Table as above shall apply accordingly.

*B If the thesis is recommended to be rejected by two of the three examiners, the thesis shall not be accepted. However, the research scholar may be allowed to resubmit the thesis normally within one year, provided the title of the thesis remains unchanged. Then after normal procedure will be followed for the thesis evaluation.

*C The thesis would be suitably revised, with in a period of one year, for re-evaluation by the examiner(s) (who has or have recommended revision) till acceptance/ rejection, and thereafter Table as above shall apply accordingly.

O.16.6 In case of ambiguous recommendations by the examiner, Dean (Research) will approach the examiner for a clear recommendation. In case clear recommendation is not forthcoming, the matter may be referred to the vice Chancellor for his decision.

O.16.7 Any doubt, arising out of following the procedure laid down in 15 above, shall be referred to the vice chancellor for the decision.

O.16.8 Thesis after successful completion should be uploaded on website as per UGC norms.

O.17 RESUBMISSION

O.17.1 In case of resubmission of the thesis, examination fee shall be paid again by the research scholar.

O.17.2 The revised thesis may be submitted within two years from the date of such intimation.

O.18 ORAL DEFENCE EXAMINATION

O.18.1 If the thesis is recommended for the award of degree, the research scholar shall be required to defend his work/thesis orally (viva-voce examination) before a duly constituted committee, ODEC. Details of the viva-voce shall be adequately notified so as to enable interested staff members and students to attend it.

O.18.2 The ODEC shall consist of supervisor(s) (internal examiners), and one external examiner. The internal examiner(s) shall arrange the viva voce examination of the research scholar.

O.18.3

- i. In case of non-availability of the External Examiner(s) for three months in conducting the viva-voce examination, the Vice Chancellor may appoint another examiner to conduct the viva-voce examination from the existing panel. If need be, the supervisor may suggest a fresh panel of examiners.
- ii. The ODEC shall be provided with the comments made by the examiners (thesis evaluators) before the viva-voce examination, if any.
- iii. If there is difference of opinion among the viva-voce examiners, the recommendations of the ODEC will be referred to the Vice Chancellor for final decision.
- iv. Internal examiner(s) shall arrange for the viva-voce examination of the research scholar as early as possible after receiving the notification from Dean (Research).
- v. In case of the inability of the internal examiner(s) to have the viva voce examination conducted due to any reason whatsoever, the Vice Chancellor may appoint another Internal Examiner(s) from amongst the faculty of the department concerned who belongs to the particular field in consultation with Dean (Research) and Head of the Department concerned to conduct the viva-voce examination. In such cases also, the PhD work will be deemed to have been carried out under the guidance of the supervisor(s) only.
- vi. Any other matter not explicitly provided herein or of an exceptional nature, may be referred to the Vice Chancellor for decision.

O.18.4 On the completion of all stage of the examination, the ODEC shall submit evaluation report in prescribed form and shall recommended to the Dean (Research), on the following courses of action:

- i. That the degree be awarded;
- ii. That the research scholar be re-examined at a later specified time in a specified manner;
- iii. That the degree shall not be awarded. The thesis will be rejected on the conclusion the thesis in not genuinely the work of the research scholar.

In case of (i) and (ii), the ODEC shall also provide to the research scholar a list of all corrections and modifications in the thesis (if required) including suggestions made by the examiners during the thesis evaluation.

The second viva-voce examination, if required, may be held normally after a period of three months.

O.19 AWARD OF PhD DEGREE

O.19.1 The degree shall be awarded by the University provided that:

- i. The ODEC recommends so;
- ii. The research scholar produces a 'No Dues Certificate' in the prescribed form in the case of students who undertook research at the University premises.
- iii. The research scholar has submitted four hard cover copies of the thesis; one each for the Departmental Library, University Library, supervisor(s) incorporating all necessary corrections/ modifications, if any.
- iv. The research scholar has submitted soft copies of thesis and synopsis in pdf format to the University library.

O.19.2 The award of the PhD to an eligible research scholar shall be made in accordance with the Regulations of the University.

O.20 WITHDRAWAL FROM PhD PROGRAMME

If a research scholar withdraws from his PhD programme or his registration is terminated, his research scholar status ceases. If such a research scholar is re-admitted within a period of six years, he/she may be given weightage to the credits acquired during the previous registration on the recommendation of DRC, except in the case of termination on disciplinary grounds.

O.21 GENERAL

O.21.1 The supervisor, department / Research Centre and University shall not be responsible for failure of the student in completing any of the requirements for award of PhD degree to the research scholar.

O.21.2 Any doubt or dispute about the interpretation of these Ordinances shall be referred to the vice chancellor, whose decisions shall be final and binding.

O.21.3 Notwithstanding anything contained in these Ordinances, all categories of the research scholars shall be governed by the rules and procedures framed by the Academic Council in this behalf, and in force from time to time.

O.22 INCENTIVES TO RESEARCH SUPERVISORS

O.22.1 Each Research Supervisor shall be credited a load of 2 periods/ week to his/ her teaching load irrespective of number of candidates working under him.

O.23 TO IMPROVE QUALITY OF R & D

- O.23.1** The efforts for R & D should lead to benefit society directly/ indirectly.
- O.23.2** Departments shall identify research areas and form research groups consisting of faculty members having common specializations and research interests.
- O.23.3** Departments shall interact with industries to take inputs to define R & D problems. Outcome of such type of R & D efforts may lead to Technology Transfer to industries for improving processes or production of new products/ new innovation.
- O.23.4** The R&D activities shall lead to bring external cash flow (ECF) through consultancy and testing, technology transfer/ transfer of resources outcome etc. which may be utilized for further development of department and the institute.
- O.23.5** The R & D activities shall lead to file patents at national and / or international level.

O.24. INCENTIVES TO RESEARCH SCHOLARS

- O.24.1** Full time scholars may be provided teaching assistantship as per the AICTE / UGC norms.
- O.24.2** Admission in part-time category may be granted to in-service candidates having a minimum professional experience of one year after his PG degree from among faculty members working in any Engineering College/ Polytechnic / University / Deemed to be university (recognized/ accredited by appropriate bodies in India) or staff of public/ private organizations.
- O.24.3** PhD programme in subject areas of inter-disciplinary nature may be allowed. This kind of research should be given due wattage in promotions/ selection also.
- O.24.4** The following category of candidates may be exempted from appearing in the admission test.
- i. Faculty members under QIP (Quality Improvement Programme) / FIP (Faculty Improvement Programme).
 - ii. Candidates qualified in UGC-CSIR, JRF.
- O.24.5** Tuition fee may be waived off to needy students as per the norms decided by the university.
- O.24.6** University may set up research center in the institutes under their jurisdiction where research guide and research facilities are available.
- O.24.7** For completion of course work the candidates may be permitted be required to take leave of 15 days block, 3 times to complete attendance of 36 hours in each course work. Universities may explore the recognitions of on line

courses as course work for research scholars.

- O.24.8** Minimum number of contact days in an academic year may be specified.
- O.24.9** Teaching assistantship provided during the PhD may be considered as teaching experience.
- O.24.10** All full time Research Scholars shall be eligible for 30 days leave in an academic year. They shall not be entitled for vacations in the institution/ University.

O.25. ADDITIONAL PROVISIONS

- O.25.1** Universities may add provisions, necessary for their respective university, not covered above. University will form all such ordinances and bodies necessary for smooth running of PhD programme such as Department Research Committee (DRC), Research Board etc. The composition, tenure and eligibility of members for DRC/ Research Board/ any other body, shall be approved Academic Council of the respective university.

- O.25.2** The specific condition(s) laid down by the statutory bodies like AICTE (All India Council for Technical education), MCI (Medical Council of India), VCI (Veterinary Council of India), ICAR (Indian Council of Agriculture Research), COA(Council of Architecture) or any such body, shall be incorporated by the respective universities.
- O.25.3** If any provision is not covered or if any question arises regarding the interpretation of any provisions of these regulations, Vice Chancellor shall be authorized to take final decision.

O.26. DEPOSITORY WITH INFLIBNET

- O.26.1** Following the successful completion of the evaluation process and before the announcement of the award of PhD degree(s), the PhD thesis to the INFLIBNET for hosting the same so as to make it accessible to all Institutions / Colleges.
- O.26.2** Prior to the actual award of the degree, the degree-awarding Institution shall issue a provisional Certificate to the effect that the Degree has been awarded in accordance with the provisions of the UGC Regulations, 2016.

Registrar

Chancellor

**Bikaner Technical University,
Bikaner**

**Bikaner Technical University,
Bikaner**

BIKANER TECHNICAL UNIVERSITY BIKANER



REGULATIONS

DEGREE OF DOCTOR OF PHILOSOPHY

REGULATIONS

The following Regulations shall apply to all categories of research scholars pursuing courses of study and research leading to the Doctor of Philosophy degree:

DEFINITIONS

Note: 'He' and 'His' imply 'he'/'she' and 'his'/'her', respectively here in after.

- i. **“Applicant”** shall mean an individual who applies for admission to the PhD programme of the Bikaner Technical University, Bikaner on a prescribed Application Form.
- ii. **“Caretaker Supervisor”** shall mean a member of the academic staff appointed to look after the research scholar’s research interests in the absence of the supervisor and after the submission of the thesis.
- iii. **“Co-supervisor”** shall mean an additional supervisor approved by the Department Research Committee to help in the accomplishment of the research work of the research scholar.
- iv. **“Course Advisor”** shall mean a faculty member nominated by the Department/Research Centre to chalk-out the programme of study of a student registered for the PhD and to advise him on the course to be taken by him. If a supervisor(s) has already been appointed, he shall be the Course Advisor for that student.

- v. **“Course Work”** shall mean courses of study prescribed in the Department/ Research Centre through the Course Advisor to be undertaken by a student registered for the PhD degree.
- vi. **“Dean (Research)”** shall mean the Dean (Research) to be appointed by the Vice Chancellor. All the matters related to PhD degree shall be routed through Dean (Research).
- vii. **“Degree”** shall mean the Degree of Doctor of Philosophy (PhD) of the Bikaner Technical University, Bikaner.
- viii. **“DRC”** shall mean Department Research Committee.
- ix. **“RAC”** shall mean Research Advisory Committee.
- x. **“Educational Institution”** shall mean those colleges which offer Bachelor’s or higher degree.
- xi. **“Full –time Research Scholar”** shall mean person registered for the PhD degree devoting full time for completing the degree requirements.
- xii. **“Minimum Registration Period”** shall mean the minimum period for which a research scholar must be registered, prior to submission of the thesis.
- xiii. **“ODEC”** shall mean Oral Defense Evaluation Committee.
- xiv. **“Part time Research Scholar”** shall mean a person who is registered for the PhD degree and will devote part of his time towards this pursuit and devote part of time towards the discharge of his official obligations.
- xv. **“BTU”** shall mean Bikaner Technical University, Bikaner.
- xvi. **“Registration Period”** shall mean the length of time span commencing with the date of initial registration at the University/ Research Centre on full-time basis.
- xvii. **“Research Board”** shall mean the Research Board of each faculty of the Bikaner Technical University, Bikaner.
- xviii. **“Research Centre”** shall mean Research Centre approved/ recognized by the University, where research work is permitted to be pursued.
- xix. **“Research Scholar”** shall mean a person registered for the PhD degree programme.
- xx. **“Residential Requirement”** shall mean the minimum period for which a Research scholar must attend the University/ Research Centre on full time basis.
- xxi. **“Sponsored Research Scholar”** shall mean a full time research scholar except that he receives complete financial support from the sponsoring organization i.e. his employer.
- xxii. **“Supervisor”** shall mean a faculty member of the University/ Affiliated Institute / College or any other person approved by the research board on the recommendation of Department Research Committee to supervise the research work of a research scholar.
- xxiii. **“University”** shall mean the Bikaner Technical University, Bikaner.

R.1 CLASSIFICATIONS

The Full time research scholar and Part time research scholar shall be further categorized as under on the recommendation of DRC:

R.1.1 Full time Research Scholar

a. With fellowship

This include research scholar getting the University fellowship/ assistantship and research scholar who receive their fellowship and contingency grants from supporting organizations such as Council for Scientific and Industrial Research (CSIR), University Grants Commission (UGC), Quality Improvement Programme (QIP), Department of Atomic Energy (DAE), Department of Science and Technology (DST), Department of Biotechnology (DBT), Indian Council of Medical Research (ICMR), DRDO, AICTE, ICAR and other similar organizations.

b. Sponsored

An Employee of a Public Sector Undertaking, a Government Department, a Research & Development organization, or an Educational Institution, or a private industry (approved by the concerned Faculty) with a minimum relevant working experience of two years or a Defense Officer may be considered for admission as a sponsored full-time research scholar. Sponsored applicants shall be eligible for admission provided that they are treated by their employers as on duty with their normal salary and allowances and are fully relieved for the period of study. He shall produce sponsorship certificate from the parent organization along with the application for admission.

c. Self-Financed

This category refers to persons who are relieved from governmental or educational institutions on study leave for a period of not less than two years for pursuing PhD programme

d. Self – Financed (Foreign)

These students are admitted through Embassy/High Commission of the respective Government after getting approval from the Ministry of External affairs and No Objection Certificate (NOC) from the Ministry of Human Resources Development, Department of Education (Government of India) or admitted under an Memorandum of Understanding (MOU).

R.1.2 Part-time Research Scholar

a. University Faculty/ Staff

This category refers to persons who are employees of the University with more than three years of service and are admitted to the PhD programme. They are expected to work for their PhD programme after fulfilling their normal duties. A faculty member/staff who has opted for supervisor(s) outside his department shall have to register in the main supervisor's department.

b. Project Staff

This category refers to persons working on different research projects at University. They may be admitted to the PhD programme subject to the consent of the Principal Investigator/Coordinator of the project. They are expected to work for their PhD programme after fulfilling their normal duties.

c. Self – Finance

An employee of a Public Sector Undertaking, a Government Department, a research & Development organization, a private industry (approved by the concerned DRC), an educational institution or a defense organization with a minimum relevant working experience of three years may be considered for admission as a part-time research scholar.

R.2 ELIGIBILITY FOR UNIVERSITY FELLOWSHIPS

R.2.1 The University fellowship shall be admissible to full-time Research scholars (Indian nationals only) provided they are not receiving financial assistance from any agency. Fellowship awardees shall not be permitted to undertake any employment during that period. A separate office order shall be issued by the Registrar of the University about scholarship grant admissible after due approval from the competent bodies from time to time. In addition, the students are given contingency grant in accordance with the rules of the University.

R.2.2 The fellowship/contingency shall be granted initially for three years and it can be extended for subsequent years subject to the satisfactory performance of the student evaluated by **Research Advisory Committee (RAC)**. The **RAC** shall submit its recommendation to the concerned DRC for consideration of such extension. The fellowship shall be given for maximum duration of five years or up to the thesis submission whichever is earlier.

R.2.3 The University reserves the right to terminate the fellowship/contingency of any research scholar at any stage, if the progress of research work is not satisfactory.

R.2.4 The research scholar getting University fellowship shall be required to give four hours of teaching assistance per week or as modified from time to time by the University.

R.3 RESEARCH SUPERVISOR

R.3.1 In case a research supervisor is transferred to a college outside the jurisdiction of the University, registration of such research supervisor in this University shall remain under suspension for fresh registration of research scholar till he is re-transferred in the college under jurisdiction of this University. However, the supervisor concerned shall continue to supervise the already registered research scholars. On retransfer the provision of suspension shall be re-invoked.

R.3.2 No research scholar shall be allowed to register independently under a teacher two years prior to his superannuation. The research scholars who are registered with him prior to superannuation shall continue. No retired teachers of any university or affiliated college shall be allowed to register a research scholar independently.

However, Professor Emeritus or a retired teacher having major research projects from national funding agencies shall be allowed to register three research scholars as a whole. The member of the existing teaching faculty shall be the co-supervisor in such cases.

R.3.3 Limit for supervising Research Scholars by Supervisors

At any given point of time the Research Supervisor / Co-supervisor shall not be allowed to guide research scholar more than the number as specified below:

(i) Professor-08 (ii) Associate professor -06 (iii) Assistant Professor-04

R.3.4 The allocation of Research Supervisor for a selected research scholar shall be decided by the Department concerned depending upon the number of scholars per supervisor, the available specialization among the supervisors and research interest of the research scholar indicated at the time of interview/viva-voce.

R.3.5 In case of relocation of PhD scholar due to marriage or otherwise, the research date shall be allowed to transferred to the University to which the scholar intends to relocate, provided all the other conditions in these regulations / guidelines are followed in letter and spirit and the research work does not pertain to project secured by the parent institution / supervisor from any funding agency. The scholar shall however give due credit to the parent guide and institution for the part of research already done.

R.3.6 The Faculty members working in Government / Autonomous Universities may not be allowed to act as supervisors in private Universities.

R.3.7 University shall make appropriate provision so that eligible research supervisors do not refuse to guide research scholars.

R.4 ADMISSION PROCEDURE TO THE PhD PROGRAMME

R.4.1 Notification and Procedures for PhD admission

Applications for admission to the PhD programme shall be invited once in an academic year. All applicants seeking admission to a PhD programme through BTU Doctoral Admission Test (BTU-DAT) shall have to apply in prescribed application form.

- i. University shall conduct an annual entrance test at pre-notified date for admission to PhD programme. The second test may be conducted if seats remain vacant after first test.

- ii. University shall decide the predetermined and manageable number of PhD scholars to be admitted depending upon the number of available supervisors and other academic and physical facilities available, the norms regarding research scholar- teacher ratio, laboratory, library and such other facilities.
- iii. University shall notify well in advance on their least two (2) newspapers having wide publicity of which at least one shall be in the regional language, the number of seats for admission/subjects/discipline-wise distribution of available seats, criteria for admission, procedure, examination centers where entrance test shall be conducted and other relevant information for the benefit of the candidates.
- iv. University shall adhere to the State Reservation Policy.
- v. The entrance test shall be of qualifying nature with qualifying marks as 50%. The syllabus for the entrance test shall consist of 50% of research methodology and 50% subject specific. The paper shall consist of 100 objective types multiple choice questions.
- vi. Qualified candidates, maximum twice the number of seats, shall be called for interview/viva voce before the departmental Research Committee to discuss their research interest/ area and give a presentation on the same.
- vii. All candidates who qualify UGC-NET (including JRF/ UGC-CSIR NET including JRF/SLET/Teachers Fellowship holders) shall be exempted from PhD entrance test and will be called for interview.
Final selection shall be as prescribed in these regulations. If number of such qualified candidates is equal to or more than twice the number of seats as specified in R.4.1 (iii), university may not conduct the entrance test.
- viii. The interview/viva voce shall also consider the following aspects-
 1. The candidate possesses the competence for proposed research work
 2. The research work can be suitably undertaken at the institution at the institution/college/research centre.
 3. The proposed area of research can contribute to new/ additional knowledge.
 4. Preference of candidate for supervisor shall be considered. However, recommendation of DRC shall be final.

R.4.2 Final Selection of the candidates:

- i. If the number of seats is equal to or more than the qualified candidates, the DRC may recommend all or less number of candidates depending upon the criteria specified at **R.4.1(viii)**

- ii. If the number of seats is less than the number of qualified candidates, final selection shall be made on the basis of merit in the qualifying test and viva-voce/ interview.
- iii. All admissions shall be final subjected to the approval of Research Board of University.
- iv. University shall maintain the list of all PhD registered students on its website on year wise basis. The list shall include all information including Aadhar Number as stipulated by UGC in the Performa informed vide letter dated 9th March 2017.

R.5 RENEWAL OF REGISTRATION

Every research scholar shall be required to renew the registration every semester till the submission of the thesis. The renewal of registration every semester shall be subject to the satisfactory progress in his research work as recommended by DRC.

R.6 COURSE WORK

- R.6.1** Every research scholar having been admitted to a PhD programme shall be required to undertake and successfully complete the prescribed course-work of one semester duration. The course work shall include minimum four papers of three hours per week. The course work shall be treated as pre-PhD preparations.
- R.6.2** The first paper shall be on Research Methodology, which may include quantitative methods, research aptitude, computer applications as suitable to the PhD programme.
- R.6.3** The second and third paper as per requirement of the area of research and the same shall be designed/ proposed by the supervisor and approved by RAC.
- R.6.4** Each course work shall be of 100 marks, out of which 40 marks shall be based on Mid-term evaluation by way of term test/assignment/Mini project. Remaining 60 marks shall be based on end term examination.
- R.6.5** The course work assessment including the end term examination shall be carried out by respective course instructor.
- R.6.6** The fourth course of 100 marks shall involve reviewing of published research work in the relevant field under supervision of the assigned supervisor. The evaluation shall be in the form of report submission (40 Marks) and presentation (60 Marks). The evaluation shall be done by the RAC.
- R.6.7** The candidate must get minimum 55% marks or equivalent grade point to pass the course work.
- R.6.8** Duration of course work shall be maximum upto 6 months. This duration shall be counted in completion of research work. In case a candidate fails in course work examination fully/partially, he shall be allowed to reappear in the next course work examination conducted by the University on deposition of prescribed fee/registration fee as per the University rules. However, attendance shall not be compulsory for reappearing in the course work examination. The course work examination shall normally be conducted twice a year.

- R.6.9** If a candidate fails to clear course work examination in two attempts, his admission shall be treated as cancelled.
- R.6.10** The student shall be permitted to pursue his course work requirement only at the University premises/recognized research centers.
- R.6.11** A PhD student irrespective of the category (R.1), while pursuing course work, must have at least 75% attendance in each course in which he is registered. If the student does not have the required minimum percentage of attendance in any subject, they shall be detained in those subjects, and shall have to reappear for respective course work again, as and when they are offered and shall maintain the attendance required and then appear for the examination.

R.7 WITHDRAWAL FROM SEMESTER/COURSES

- R.7.1** A research scholar may be permitted by the Dean (research) on the recommendation of supervisor to withdraw from all the courses registered by him for the entire semester, on medical grounds supported by a medical certificate from the University Medical Officer *or* on any other genuine reasons. The medical certificate issued by a registered Medical Practitioner shall also be acceptable in those cases where the research scholar has valid reasons for his absence from the University/Institute/Centre.
- R.7.2** Research scholar should present the medical certificate in support of his absence on health reasons within two days of his rejoining the institute, if not produced already. Withdrawal shall not be granted retrospectively.
- R.7.3** Withdrawal may also be granted by the Research Board on the recommendation of the DRC and the Dean (research) provided it is established that the research scholar cannot pursue his studies for the reasons beyond his control.
- R.7.4** The period of authorized absence in the semester should not be less than eight weeks of contact period for semester withdrawal to be granted. Regularity in attending the classes and satisfactory performance in the mid-term examinations, if any, held prior to the date of application for withdrawal are the factors which would be taken into account while recommending/granting withdrawal.
- R.7.5** Any semester withdrawal shall count towards the maximum limit of twelve/sixteen semester as stipulated in the ordinance.

R.8 CANCELLATION OF REGISTRATION

Registration of a research scholar shall be cancelled in any one of the following eventualities, after due approval of Dean (Research):

- R.8.1** If he absent himself for a continuous period of four weeks without prior intimation/sanction of leave.

- R.8.2** If he resigns from the PhD programme and the resignation is duly recommended by the Supervisor.
- R.8.3** If he fails to renew his registration in any semester/annual subject to the provision contained in the Ordinances and the Regulations.
- R.8.4** If his annual progress is found unsatisfactory.
- R.8.5** If he is found involved in an act of misconduct and/or indiscipline and termination has been recommended by Dean (Student Welfare).

R.9 PERFORMANCE MONITORING

- R.9.1** Progress of the research work of all research scholars in the department shall be reviewed at the end of each semester by respective DRC.
- R.9.2** Each research scholar shall appear before the Research Advisory Committee once in six months to make a presentation of the progress of his work for evaluation and further guidance. Six monthly progress report shall be submitted by the Research Advisory Committee to the Dean/Director (Research) and copy to the Research Scholar, till the thesis is submitted. The RAC shall evaluate and send the evaluation report in the prescribed form to the DRC Chairperson for appraisal with anyone of the following recommendations.
- i. Allowed to enroll in next semester and continue research;
 - ii. Allowed to enroll and continue research but with suggestions for improvement;
 - iii. Advised to discontinue as the performance is very poor. In that case the matter shall be referred to the Research Board for final decision.

R.10 SYNOPSIS

- R.10.1** The research scholar shall submit the synopsis of his work at least two months prior to submission of the thesis.
- R.10.2** The RAC may relax specified period of submission of synopsis on the recommendation of the supervisor by assigning the reasons for the same.

R.11 THESIS SUBMISSION

- R.11.1** The PhD thesis must contain the following copyright certificate in the beginning of the thesis, on a separate page on the left side:

BIKANER TECHNICAL UNIVERSITY, BIKANER, 20.....

(Year)

ALL RIGHTS RESERVED

- R.11.2** The research scholar for the degree shall submit four copies of the thesis (Hard and soft) with a soft cover. In case of co-supervision, five copies of thesis shall have to be submitted by the research scholar.

R.12 TUITION FEE WAIVER

The following categories of research scholars may be given 50% tuition fee waivers:

- R.12.1** All full-time University research scholars including QIP. The University research scholars include those who obtain scholarship through MHRD, CSIR & UGC, provided they are getting scholarship of the same values as that of MHRD, etc.
- R.12.2** Research scholars admitted to PhD programme from DST, CSIR and other Government Organization, involved in research/development activities/ Institutions.
- R.12.3** Additional 25% fee waiver can also be given on case by case basis, the maximum number of such waivers being restricted to 50% of the University research scholars on roll. For grant of additional 25% fee waiver to the full-time University research scholars, the respective DRC shall assess the performance and consider the cases of the deserving scholars on case by case basis and shall submit the name(s) of the concerned research scholars to the Dean (Research) for approval of Research Board.
- R.12.4** For the University staff pursuing PhD at the University including those getting assistantship from projects, the tuition fee is waived up to 75%.

R.13 LEAVE AND ATTENDANCE

- R.13.1** A research scholar shall be entitled to avail leave as per leave Rules/Attendance Rules formulated and amended from time to time by the University.
- R.13.2** A full-time PhD research scholar, during his stay at the University/Centre shall be entitled to leave for 30 days including leave on medical grounds, per academic year. He shall not be entitled to mid-semester breaks, summer and winter vacation at the end of the first semester.
- R.13.3** Leave beyond 30 days in an academic year may be granted (without fellowship) to a research scholar in exceptional case, by the Head of the Department on the recommendation of his supervisor concerned, subject to the following conditions:
 - i. The leave beyond 30days shall be without Assistantship/Scholarship; and
 - ii. Such an extension of leave up to additional 30 days or a part there of shall be granted only once during the programme of the scholar.
 - iii. The leave may be subject to the approval of the Head of Department concerned; and a proper leave account of each research scholar shall be maintained by the Department concerned.
- R.13.4** The women research scholar shall be eligible for maternity leave with fellowship for a period not exceeding period specified by the state government during the tenure of the award.

R.14 GENERAL

- R.14.1** Research scholar is required to route all his applications through his supervisor only.
- R.14.2** Any doubt or dispute about the interpretation of these Regulations shall be referred to the Vice Chancellor, whose decisions shall be final and binding.
- R.14.3** Notwithstanding anything contained in these Regulations, all categories of the research scholars shall be governed by the rules and procedures framed by the Academic Council in this behalf, and in force from time to time.

Registrar
Bikaner Technical University,
Bikaner

Chancellor
Bikaner Technical University,
Bikaner