C. V. RAMAN COLLEGE OF ENGINEERING BHUBANESWAR

REGULATIONS

for Ph. D. DEGREE in

ENGINEERING, SCIENCE, MANAGEMENT, HUMANITIES AND SOCIAL SCIENCES

(Effective from Academic Session 2018-19)

**C.V. RAMAN COLLEGE OF ENGINEERING
BHUBANESWAR**

CONTENTS

Ph.D.

1. Introduction

1.1 C. V. Raman College of Engineering provides facilities for research leading to the degree of Doctor of Philosophy (Ph.D.) in Engineering, Science, Management, Humanities and Social Sciences in various disciplines as mentioned in Appendix—I.

1.2 The Ph.D. work shall cover research work characterized by either discovery of new facts, new interpretation of known facts and theories, an independent design or development, development of a new instrument or technology, an exhaustive and critical study and criticism of published work, or any applied research that can be exploited for creation of wealth or for human wellbeing.

1.3 The requirement for award of Ph. D. degree shall consist of (a) participation in teaching – learning process in terms of attendance and prescribed course work, (ii) successful completion of comprehensive exams and seminars as prescribed, (ii) carrying out research and (iii) meeting the scholastic standards in both research and course work prevailing in superior academic institutes of India.

1.4 The Ph D programme will be governed by these regulations and additional rules and decisions made by the Academic Council, or the Chairman of the Council on its behalf. The Research Programme Implementation Committee (RPIC) will assist the Council. The composition and functions of the Research Programme Implementation Committee are given in Appendix – II.

1.5 In the Department level the programme will be administered by the Head of the Department, assisted by the Departmental Research Committee (DRC). The composition and functions of the DRC are given in Appendix- III.

1.6 All students admitted to the Ph D programme need to pay college fees as fixed by the Board of Governors. The basic fee structure and applicable rules are discussed in Appendix-IV.

1.7 These regulations will conform to rules and guidelines set by BPUT - the affiliating university, UGC, AICTE and other appropriate statutory bodies. In case any of its provisions ever comes in conflict with the prevailing regulations of the higher academic or statutory bodies, the provisions of the latter shall prevail.

2. Eligibility

2.1. The minimum qualification required for admission to Ph.D. programme in Engineering, Science, Management, Humanities or Social Sciences is one of the following:

2.1.1. M.E./M.Tech/M.S./M.Pharm/M.Phil/MS/MD/MVSc in relevant discipline with at least 6.5/10 CGPA or 60 percent marks in aggregate from a recognized technical Institute or University in India or abroad.

2.1.2. B.E./B.Tech/B.Pharm/MCA or equivalent in relevant discipline with CGPA of 6.5/10 or 60 percent marks in aggregate .

2.1.3. M.Sc./MA in Basic Sciences with CGPA 6.5 or 60 percent marks in aggregate in relevant discipline.

2.1.4. M.B.B.S./ B.V.Sc. with CGPA 6.5 or 60 percent marks in aggregate.

2.1.5. M. Sc. /M.A. / MBA / M.Com. in Humanities or Social Sciences or Management with CGPA 6.0 or 55 per cent marks.

2.1.6. Any other degree or diploma from a recognized technical Institute or University in India or abroad considered to be equivalent to one of the above by the Academic council.

2.1.7. Qualifying degrees for admission to the Ph D programme are listed in Appendix - V.

2.2.   In computing the CGPA or percentage of marks, all papers of a B.Tech., M.Sc., M.Tech or any other programme will be considered both in numerator and denominator.

2.3.   Universities some time record their own conversion of marks to grade or vice versa on their grade sheets. Under such circumstances, CVRCE will accept only the original mode of evaluation ignoring the conversion.

2.4.   In exceptional cases, where the candidate has proven research experience, evidenced by published papers and/or unpublished documents, the Academic Council or its Chairman on its behalf, can relax the mark requirement by 5 percent (or 0.5 in CGPA) on recommendation of the Departmental Research Committee (DRC). Copies of the documents considered for the purpose must be presented to the Academic Council.

2.5.   Students with degrees in one discipline of Science or Engineering can enrol for Ph.D. in another discipline of Management, Humanities, Social Sc, Science or Engineering, if such migration is considered relevant by the Departmental Research Committee (DRC). The decision must be made by Academic Council (or Chairman of the Council on its behalf) on case to case basis depending on the fields involved, proposed research programme and academic preparation of the candidate.

There is sometimes a request from a student with B.Sc - M.Sc - M.Tech/M.Phil background to pursue Ph.D. in engineering and from students of engineering background to pursue Ph.D in Science, particularly from research fellows employed in sponsored projects. Such migration is possible if the Departmental Research Committee finds it appropriate. As an alternative approach, the following arrangement is encouraged.

When an application from a student with good academic record in another discipline (with weak overlap of courses) is received, the department shall identify a possible supervisor from its own department and forward the application to a second department dealing with the parent discipline of the student. The student will face a selection committee in the second department with the proposed supervisor serving as an additional member of the committee. (This committee is better equipped to judge the academic record and research potential of the student in his/her own discipline). If selected, the student will be enrolled in the second department with the faculty of the first department serving as the Principal supervisor. A second supervisor may be (but not mandatory) chosen from the second department at the discretion of the principal supervisor. Fellowship awarded, if any, will be counted against the first department, i.e. the department to which the supervisor belongs, and which the student first applied to.

2.6   There are disciplines where different universities award both B-Tech/ M-Tech as well as B.Sc/M.Sc/M.Tech/M.Phil degrees with the same title but different course contents e.g., Electronics, Biotechnology. The overall experience of students following B.Tech. and B.Sc. routes, are however, very different. For the purpose of Ph.D & M.Tech (Res) admissions, students with background in B.Sc/M.Sc in Electronics, Bio-Technology, Applied Chemistry, Computer science will be considered equivalent to those with corresponding degrees in Physics, Life Sciences, Chemistry and Mathematics respectively. Similarly B.Tech. degree in Engineering, Physics, Applied Chemistry and Information Technology will be deemed equivalent to those in Electronics Engineering, Chemical Engineering Computer Science & Engineering respectively. Other examples of such equivalence can be decided in similar lines by the Academic Council or its Chairman on its behalf as the need arises.

2.7   Qualification in GATE or NET is not essential for admission to Ph.D. programme at CVRCE; but preference in admission will be given to candidates with decent scores in NET, GATE or other national bench marking tests in their careers. Students applying for Government scholarships / fellowships, however, shall need an M.Tech degree or a valid NET (Lectureship or JRF) or GATE score, if required by the relevant Government regulations.

2.8   The various categories of students (with or without financial support) mentioned below are eligible for admission to Ph.D. programme provided they satisfy the qualification requirements as given in section 2.1.

    1. Full time student with College Fellowship /Assistantship (College Scholar)
    2. Full time student with External Fellowship, public or private.
    3. Full time student without Fellowship (self financed/ self supported)

4. CVRCE faculty (Assistant Professor, Associate Professor or Professor), considered full time researchers overlapped with their normal teaching jobs.

5. CVRCE regular employees (Non-teaching officers), considered as part time researchers.

6. Full time project scholars (JRF/SRF/RA etc.) or sponsored project staff members at engineer or officer level.

7. Full time student sponsored by an external organisation: Institute/College/Research Organisation/ Industry

8. Part time student sponsored by organisations (colleges, institutes, industry, NGO or Government) located within commuting distance from the college so that the student can attend college albeit with adjustment with his/her job responsibilities.

9. Student sponsored by a collaborating institution (Industry, R&D laboratory, Government institution) specially recognised by the Board of Governors for carrying out R&D projects jointly. To be recognised as a "collaborating institution", there should be at least one sponsored project of high value (among the top 50% of projects running at CVRCE in terms of gross budget) sponsored either by the collaboration partner or granted by an external agency jointly to the two institutions.

2.9 Unlike other academic programmes, mere possession of required degrees and a superior academic record do not guarantee admission to a student to the Ph.D. programme. Apart from academic record, the DRC will take into consideration the research aptitude, ability to work in a team, subject interest, availability of supervisors, facilities in the department and the department's research focus while selecting candidates to the Ph.D. programme.

2.10 Research students (JRF, SRF, RA) engaged in full time research in Government R&D laboratories (CSIR, DST, DAE, ISRO, DOS, DRDO and similar research organisations) or in R&D divisions of major industry, who are not entitled to award their own degrees can be enrolled under category 2.

2.11 While in most departments selection of research students can be done purely through oral interaction, a formal selection procedure including both written test and oral interaction may be adopted in departments with a strong demand for research admission. The formal system, which should be worked out by the DRC of each department well in advance, may contain points for basic degrees in the department's own UG discipline, master's degree in relevant specialization, academic record, GATE/NET score, work experience, written test and oral interaction. While the point system shall serve as a good guideline for eliminating unsuitable candidates, the final selection should be done by collective advice of the selection committee, not guided solely by the points scored.

2.12 If during the course of the Ph D programme, there are changes in circumstances of a student, the category will be modified accordingly, and wherever appropriate, revised regulations will be applicable from the date of change of category.

3. Admission

3.1 All categories of candidates except the members of the CVRCE faculty, research fellows appointed in sponsored research projects recruited by the due process of selection and scholars nominated by the Central or state Government have to be selected by Departmental Research Committee (DRC) on the basis of overall academic performance, written test and/or interview.

3.2 Candidates employed as SRFs/JRFs or as Full time Research engineers/officers in sponsored projects may be admitted to the Ph.D. Programme under category 6. Ordinarily, it will be mandatory for research fellows (SRF/JRF) engaged in research projects to pursue a degree – Ph.D. or M.Tech (Res) from the date of joining, unless specifically exempted by the sponsors. The qualification requirement and selection process should be decided in conformity with the academic requirements of the Ph D/ M Tech (Res) degree. Others, such as engineers, officers or RAs need to obtain permission of the Principal Investigator and Dean (Research) for admission. The project should have tenure of at least 12 months beyond the date of admission of the candidate to the Ph.D. programme. They also have to satisfy the qualifying marks requirement and will undergo selection procedure like other students. On termination of the project, their

status will be full time student without scholarship (Category 3), unless offered another type of scholarship.

3.3 Members of teaching staff (Assistant Professor, Associate Professor, Professor) desirous of enrolment in Ph.D programme can do so without any selection formality. No administrative permission is necessary, nor there is any minimum past service requirement. They will be governed by all other norms for Ph.D. registration and thesis submission as per regulations. They will apply to the college for admission in the standard application and enrolment forms. If the faculty member applies for admission to his/her own department, selection is automatic. But if he/she applies for admission in another department, the DRC of the destination department will examine the proposal. No formal interview is necessary. Admission will be given if DRC recommends. This facility shall be available to all regular faculty including those on probation or contract (with provision of being converted to regular position), but not to guest or visiting faculty. If a faculty member leaves the College within two years of completing Ph. D. registration (see section 11) his/her studentship gets automatically terminated.

3.4 Non-teaching staff of the college may be permitted to join the Ph.D. programme under following terms and conditions:

(i) A member of non-teaching staff (only at engineer or officer level) seeking permission to join the research programme must hold a regular post in the college and must have a standing of at least 3 years service in the college in the same cadre.

(ii) The employee must be engaged in research or comparable scholastic work as a part of his/her normal duty, so that his/her work output can qualify for the degree of Ph.D. Study towards Ph.D. cannot be done on over- time basis outside the working hours of the College.

(iii) The application for administrative permission to join a research programme by a member of non-teaching staff must be submitted to the Principal through the Head of the Department/Centre or the section in -charge, as the case may be, where the candidate is employed. While submitting the application he/she must give an undertaking to the effect that he/she will abide by all rules and regulations.

(iv) Administrative permission by the Principal does not constitute academic approval by the Academic Council for admission.

(v) The application will be examined by the Departmental Research Committee (DRC) of the department where the candidate wants to be enrolled. The committee will interview the candidate to ascertain his/her suitability in the programme.

(vi) Regular Non-teaching staff appointed in sponsored research projects for carrying out research work may be given leave without pay from the college to work in the project and pursue Ph.D' programme simultaneously. In deserving cases, Principal, at his/her discretion, may approve payment of partial salary (up to 50%) and waive lien charges, against services rendered to the college.

(vii) Every application for admission under this category shall be examined by the Research Programme Implementation Committee(RPIC) taking into account whether the proposal for joining the programme for which permission is sought arises out of genuine interest and ability, and whether the normal job assignment of the applicant sufficiently overlaps with the proposed research programme. The Academic Council will accord final permission.

(viii) Non-teaching officers applying for Ph.D. programme must satisfy the minimum qualification requirement as mentioned in sub clause 2.1. The facility of pursuing Ph D at CVRCE is not available to non-teaching staff at levels lower than that of engineers, officers and positions requiring a professional degree.

(ix)   If a non-teaching officer leaves the college within two years of completing his/her Ph D registration (see Section 11) or if his/her services are terminated by the college, his/her studentship in the Ph D programme gets automatically terminated.

3.5   Candidates sponsored by major public and private sector employers are given concessions in admission and subsequent procedural requirements without compromising on academic standards. The norms for admission of sponsored candidate are given in Appendix - VI.

3.6   Students enrolled in the M.Tech (Res) programme may shift to the Ph.D. programme on recommendation of the Masters Scrutiny Committee and approval of the Academic Council. All such proposals will be examined by the RPIC before presentation to the Academic Council. In such a case the Council will appoint a DSC and work out course requirement, and the student can submit Ph.D. thesis only after satisfying all requirements of the Ph.D. degree.

3.7   Candidates desirous of pursuing Ph.D. programme must apply in prescribed form (Form Res/101) to the Deputy/Assistant Registrar (Academic) either on their own or against an official advertisement. These applications will be scrutinized by the Departmental Research Committee (Form Res/102) of the concerned department. The recommended candidates, on approval of Dean (Academic), will be called for written test and personal interview with the DRC or its sub-committee for Ph D selection.

Application for research programme sent to departments for scrutiny must be returned by the departments within a week. When isolated applications are received, the Departmental Research Committee, as its discretion, may decide to conduct selection process immediately or along with other applications to be received against formal advertisement before the end of the semester. If a department has difficulty in scrutinising applications within a week, the Dean (Academic) will organize scrutiny of the applications and advise the HOD to invite candidates for test and interview. The DRC, through written and oral examination, shall ascertain suitability of the candidates to the Ph.D programme and give its recommendation to the Dean (Academic) for approval (Form Res/103).

3.8   While selecting a candidate for studentship with or without scholarship, Departmental Research Committee will consider not only the merit (career, depth and breadth of knowledge in chosen and allied fields, performance in written test) of the candidate, but also the research aptitude and ability to work in a team and motivation to complete the programme. The Committee shall also ascertain that at least one faculty member of the Department is available and willing to supervise the candidate if selected in his/her chosen field. [The faculty member will not have the option to refuse, if the candidate opts to work under him/her after joining.] A candidate should not be selected if the Department does not have physical resources and supervising faculty to do justice to the candidate's academic interest.

3.9   If a candidate recommended for admission has a close relative serving in the College as an Officer or a member of the faculty, the application should be so identified and sent to Principal for approval. The Principal may, at his/her discretion, approve the recommendation or refer to a committee on conflict of interest.

3.10   The admission letter (Form Res/104) will be issued by the Deputy/Assistant Registrar (Academic) to a successful candidate on the basis of recommendation of the Department and approval of Dean (Academic)/Principal.

3.11   On joining the college, and after submitting the enrolment form (Form Res/105) duly forwarded by the Department and after paying the prescribed fees [Appendix - IV], the candidate will be assigned a Roll number by the Academic Section.

3.12   The Academic Section will allot the candidate to a hall of residence. Students not desirous of staying in a hall must seek permission from the Dean (Academic) to stay outside. A student permitted to stay outside the halls shall be attached to a hall and will be required to pay appropriate hall fees.

3.13   Admission to the programme may be given at any time of the year. The fees, however, will be for a full semester. Summer is included in the Spring semester

4   **Supervisors**

4.1   All students admitted to the Ph.D. programme are required to carry out their research work under the guidance of one or two supervisors to be appointed by the Academic Council, or by the Dean (Academic)/Principal on its behalf, on recommendation of the Departmental Research Committee (DRC). Ordinarily the DRC will recommend one Supervisor. However, in case of inter-disciplinary research (within the same department, across two departments or across two colleges) or if sufficient research expertise is not available in the college in the relevant subject area, a second supervisor may be appointed. When a second supervisor is appointed from within or outside the college, he/she normally should be a person with a Ph.D. degree. But in exceptional cases, if the Academic Council is satisfied about the scholastic standard and/or professional experience of the proposed supervisor he/she may be accepted without a Ph.D. degree.

4.2   When there are two supervisors, one of them will be called the Principal Supervisor. Ordinarily the Principal Supervisor will be a faculty member of the registering department. However, in deserving cases the DRC may recommend a faculty member of another department of the College as Principal Supervisor.

4.3   The maximum number of Ph.D students a faculty member can accept shall be determined by guidelines issued by UGC from time to time. The college shall put no further limit on maximum number of research scholars a faculty member can guide beyond that mandated by UGC or another regulating body. The department may, however, regulate the number of students with college fellowship that will be assigned to each faculty. Students with individual fellowship, project fellowship, without fellowship and faculty scholars will normally be permitted to choose their Principal or sole supervisor

4.4   The supervisor from CVRCE may be of any rank (Professor, Associate Professor or Assistant professor), but he/she must hold a regular position (confirmed or on probation) and have a Ph.D. degree from India or abroad.

4.5

  (a)   A sponsored student desiring to work in his/her place of employment should have a supervisor from his/her organisation. The joint supervisor so proposed must have a Ph.D. Degree or at least 10 years of relevant professional experience. In case of Academic Institutes a Ph.D. Degree is necessary to become a joint supervisor. In deserving cases, the Academic Council may accept a supervisor from the sponsoring College/ University without a Ph.D degree, by recording in writing the grounds for making the exception.

  (b)   In special cases, where persons of adequate academic standing are not available in the sponsoring organization, and adequate physical facilities are available to ensure frequent contact between the student and his/her supervisor at CVRCE, the Academic Council may accept only one supervisor, who is a faculty member of CVRCE. The student will then be enrolled under category 8. Such proposals should be specifically approved by the Academic Council.

  (c)   In special cases, if it is felt to be beneficial to the project because of special expertise, the second supervisor may be from another Institute, Industry or other organization. Such cases shall be approved by the Academic Council on the recommendation of the DRC and RPIC.

4.6   A teacher with less than 3 years' service left before superannuation may not be recommended as sole supervisor or principal supervisor. After superannuation a teacher will continue to be the sole supervisor if the thesis is submitted within one year; if it takes more than one year a substitute supervisor has to be appointed by DRC. If no faculty member is willing to take up the assignment, the Principal, as Chairman, Academic Council, will appoint the supervisor in consultation with the HOD. This selection will be binding on the student and the supervisor.

4.7   A student's preference of subject and supervisor must be taken into consideration by the HOD and DRC while assigning a supervisor to him/her. There should not be any undue restriction on faculty or students in choice of students or   supervisors, particularly under categories not involving institute fellowship. The DRC should record the reasons for not honouring the request of a student. The DRC may, however restrict the number of College fellowships allocated to a supervisor or research group.

4.8   After superannuation from service if a person joins the College on re -employment or as Emeritus faculty or on some scheme of UGC/AICTE, he/she will continue to be the sole supervisor or as Joint supervisor as he/she was before superannuation.

4.9   Persons from outside the College joining as Chair Professors/ Emeritus faculty can be appointed as supervisors for new scholars only jointly with a regular teacher, but not as sole supervisors.

4.10   A substitute supervisor must be appointed by DRC if a sole supervisor leaves the College. If the sole supervisor proceeds on long leave for a period exceeding one year, the DRC shall appoint a second supervisor, who will serve as co-supervisor when the original supervisor returns.

4.11   During the course of a Ph.D. programme, if the supervisor, the DSC, the HOD or the Departmental Academic Committee feels the necessity of a second supervisor, an appropriate proposal must be prepared and placed with full justification before the DSC. The recommendation of DSC will be further considered by the Departmental Research Committee. If agreed by the DRC, the proposal may be placed to the Academic Council through the RPIC.

5   **Doctoral Scrutiny Committee (DSC):**

5.1   A Doctoral Scrutiny Committee shall be constituted by the Academic Council for each student admitted to the Research   Programme leading to Ph.D. degree on recommendation of the DRC of the Department.

It will consist of the following members:

1.	A senior member of the faculty of the department to which the Student has been admitted, to be nominated by the DRC;[#]	Chairman
2.	Principal Supervisor	Convenor
3.	Co-supervisor (If applicable)	Member
4.	One faculty member (Regular, visiting, adjunct or advisor) of the the same or a related department, to be nominated by the DRC.[#]	Member
5.	One faculty member of another department with good knowledge of Ph D rules and procedures, to be nominated by the Dean (Academic)	Member

In case the department to which the student has been admitted does not have enough number of faculty with Ph D degrees, particularly in early years of the Ph D programme of CVRCE, the Academic Council, or its Chairman on behalf of the Council, may nominate a faculty member with Ph D degree from another department, preferably in the same broad academic area.

The DSC will remain active till the student is awarded Ph.D degree or discontinues the programme

5.2   No teacher who is enrolled for any M. Tech. or Ph. D. degree in the College or outside shall be a member of DSC till completion of his/her degree.

5.3   The composition of the DSC shall be proposed by the DRC (except for the member from outside the department) when a student joins the Department and the recommendation shall be sent to the academic section. The academic section shall obtain approval of Dean (Academic) and bring out an office order on Form Res/106 stating the constitution of the DSC. The Committee will hold its first meeting immediately

on formation to process the formalities of — "Provisional Registration". This process will be completed within a month of a student joining, preferably earlier.

5.4 The Principal Supervisor, acting as the convener of the DSC, will normally organize the meetings of the DSC after obtaining suitable dates from the Chairman and the members. Ordinarily, DSCs should meet within two working days of initiating the process. In case of difficulties in finding time convenient to all, or when a DSC is unable to reach a consensus, the Dean (Academic) may be approached by either the Chairman or the Convener to organize the meeting for making appropriate recommendations to the Academic Council. The Dean (Academic) may, at his/her discretion, nominate additional temporary members with relevant expertise from the same or other departments to assist in the specific task.

5.5 The DSC shall always record its recommendations with appropriate reasoning and enclosures, and formal minutes should be drawn and signed during the meeting. There shall be no provision for delayed preparation of minutes nor for confirmation of minutes.

5.6 Decisions of DSC shall normally be arrived at by consensus among members. In case of serious disagreement among members, the Chairman of DSC shall record the different viewpoints and put up to Chairman Academic Council through Dean (Academic) for a decision. The decision of the Chairman, Academic council shall be binding on all concerned.

6   Enrolment and Provisional Registration

6.1 On receiving a letter of admission, every student joining the Ph. D. programme shall meet the Head of the Department and submit an application for enrolment in Form Res/105. The HOD will call the DRC and, on recommendation of the DRC, assign the student to one or two supervisor(s) and will recommend the structure of the DSC. The student will present the recommendation of the Department to the Academic Section who will permit him/her to pay the fees and assign a roll number.

6.2 All the students admitted to the Ph.D. programme are required to enrol in the programme on payment of the prescribed fees as given in Appendix - IV and to carry out research work under his/her supervisor(s) as mentioned in Clause 4. The enrolment will take effect from the date on which a student is assigned a roll number [Form Res/106].

6.3 Within two weeks of enrolment, the student shall submit an application [Form Res/107] for provisional registration, in consultation with his/her supervisor. The application shall contain details of a student's career and proposed broad area of research. The "Broad area of research" should be carefully chosen to sufficiently focus on the proposed activity without being too vague, but simultaneously not being unduly restrictive and leaving sufficient freedom for the student to go beyond the originally planned activity.

6.4 The Doctoral Scrutiny Committee will examine the application and recommend "Provisional Registration". The provisional registration will record [on Form Res/108] the broad area of research and the course work assigned. The process should normally be completed within one month of the student's joining the department, preferably sooner.

6.5 The effective date of provisional registration shall normally be the date of enrolment. The DSC may extend the date if a student does not initiate his/her course or research work immediately on enrolment.

6.6 The DSC shall also record any previous research work (relevant to proposed topic) done and express it as equivalent research credits, not to exceed two semesters of research work, if so requested by the student along with a recommendation from his/her earlier supervisor in education or employment. The decision will be taken after examining all original research records and published and unpublished documents submitted by the student, and after ensuring that the work was done while the student was not enrolled for another degree. The DSC will record and present all documents to RPIC / Academic Council.

7 Residential Requirement

7.1. Normally a student admitted to the Ph.D. programme will be required to stay in the college till he/she completes all assigned work and submits thesis. However, for sponsored candidates the DSC may recommend reducing the minimum residential requirement either to six months at a stretch in the beginning or to at least six months in combination (of which at least 2 months should be at the beginning) with each segment not less than two months, spread over a period of two years. Candidates who need to attend courses at CVRCE must stay on campus for the time required to complete the courses. The college shall arrange biometric attendance to ensure compliance.

7.2. If the candidate intends to carry out a major part of his/her research work in his/her place of employment, he/she must convince the Departmental Research Committee (DRC) at the time of selection that adequate research facilities and research tradition exist in his/her institution. While taking the decision DRC will examine all the documents presented to it regarding adequacy of the R & D facilities available in the sponsoring organization. These documents have to be furnished by the candidate during the time of selection. In general, major Central Govt. (CSIR, DRDO, DAE, ISRO, CDAC etc.) labs, research organizations, industries (public or private) with established R&D facilities will meet the requirements. In all other cases, including educational institutions, the DRC shall make a recommendation on the basis of the material available to it to the Academic Council for approval. In every case, the Academic Council will decide the residential requirement and whether it can be split into segments.

7.3. Candidates employed in teaching or R&D Institutions/industry or Government or self employed within or in the vicinity of the city of Bhubaneswar and permitted by the employer to spend sufficient time on research at CVRCE may be exempted wholly or partially from the compulsory residential requirement. In such cases the minimum duration of research shall be 4years for students with M.Tech degree and 5 years for others. For such students the college shall arrange biometric attendance to ensure that they spend the required amount of time in the college premises.

8. Attendance and Leave

8.1 A research student, except when granted withdrawal by the College must attend to his/her work on a whole time basis. The college will maintain biometric attendance record of the student, irrespective of whether the student is getting a scholarship or not, except in case of college faculty and officers whose attendance record is maintained by the college separately. The DSC will examine the attendance record of students, and if it is found unsatisfactory, will recommend extension of minimum duration for submission of thesis, deregistration or termination of studentship, as it thinks fit.

8.2 A teacher of a course may debar a student from appearing in examination on ground of unsatisfactory attendance in his/her class, irrespective of his/her overall biometric attendance record

8.3 The working hours of Ph.D. and M.Tech (R) students is generally permitted to be flexible, but not lower than that of a full time employee. It is the supervisor's and the HOD's legal and moral responsibility to ensure that proper work environment is made available to the student. The students are encouraged to discuss such issues with their supervisors, with HOD and higher authorities.

8.4 Faculty scholars and non-teaching officers enrolled in the Ph D programme are bound by their job obligations; they are, however, expected to spend significantly more time in the College than their counterparts who are not enrolled in a formal research programme.

8.5 A research scholar other than College employees is eligible for following leave per academic year to be permitted by the Head of the Dept on recommendation of the supervisor(s).

    i. For incidental purposes including minor illness not involving hospitalisation (Casual leave) – 10 working days per year.

    ii. For treatment on illness, Medical (Hospitalisation) leave – 10 working days per year (not counting intervening holidays) with proper hospitalisation record.

iii.   There is no summer or winter vacation for research students except college employees.

iv.   In matter of course work, leave rules applicable to M. Tech. courses will also be applicable to Ph.D and M.Tech. (R) Students.

v.   If a student misses biometric attendance beyond the approved leave period his/her earliest date of thesis submission will be extended by 3 calendar days per each working day of unauthorised absence.

vi.   In calculation of leave as per above provisions, "year" shall mean academic year starting on July 1 every year, irrespective of the first day of classes for UG or PG students.

8.6   It may also be noted that mere physical presence on campus does not guarantee attendance. If the entries in the official record book and interaction with supervisor(s) indicate inadequate participations in course or research work the DSC may consider such days as "unauthorised absence" from research activity.

8.7   Research students often need to travel out of CVRCE campus on research works, data collection, participation in conferences, library or experimental work, discussion with external supervisors etc. Such travel will be treated as ON DUTY, indistinguishable from physical presence in CVRCE campus. Such travel, however, shall need approval of Head of the Department (limited to three working days with no financial support from the college) or a higher authority i.e. (Dean (SRIC) if paid from project funds and Dean (Academic) for others, on recommendation of supervisor and HoD. In all cases appropriate record of activity must be made on the project Record Book. Form Res/111 may be used by students while applying for leave of absence from course or research work.

8.8   Locally sponsored part time students are required to attend the college at times convenient to them, their employers and their supervisors. The college will arrange biometric attendance and access to their laboratories at mutually convenient hours. A locally sponsored student shall be required to be present on campus at least 60 days and at least 300 hours per semester (July-December and January-June), failing which the date of registration as well as the earliest date of thesis submission will be extended by 10 calendar days per day of default and one calendar day per hour of default respectively.

9   **Semester Registration**

9.1   A student enrolled in the Ph.D. programme will be required to register [Form Res/112] in person every semester by paying college dues and other fees. [The semester registration is to be distinguished from Academic Registration, discussed in Section 11]. Part time students, including those who have taken withdrawal from the College and students of Category-8 must also do semester registration in person.

9.2   Students who have been sanctioned withdrawal may, however, be permitted in alternative semesters to send registration form by post or electronic media to their supervisors, who will present them to the Academic Section through the HOD. Thus a student taking withdrawal must register in person at least once every academic year.

9.3   Failure to do semester registration for two consecutive semesters will result in termination of studentship, which can be restored by the Academic Council on consideration of all circumstances, payment of arrear fees and extension of thesis submission date. The earliest date of thesis submission shall be extended by the number of semesters the student has failed without doing semester registration.

9.4   A student must be registered (by semester registration) at the time of submitting his/her thesis. There is no provision for exemption from this requirement, irrespective of the fraction of the semester spent before submitting the thesis.

9.5   It shall be the responsibility of the student to bring any deviation in his/her status in matters of course of work, registration, withdrawal etc. to the attention of Dean (Academic) at the time of semester registration, if he/she has not done so earlier.

10   Course Work and Academic Credits

10.1   Every student pursuing Ph.D at CVRCE must clear at least 20 credits of course work in addition to courses on "Scholarly Communication" (every semester) and "Research Methodology" (one semester), and any other course mandated by UGC and higher authorities. Depending on prior course experience in UG and PG levels, the Academic Council may, on recommendation of the DSC, grant exemption from attending specific courses up to 12 credits to students with M.Tech, M.Pharm, M.Phil and equivalent qualifications. The students are however, advised to enrol in as many course credits as they can to enhance the quality of their scholastic experience and preparation for a fruitful research / teaching career. One course credit shall involve approximately 13 hours of actual instruction in theory or 20 hours of actual practice in practical courses.

10.2   The spirit behind the Ph.D course work at CVRCE is to strengthen the fundamentals of the student and to give him/her diversity of scholastic experience. Enrolling in advanced, highly specialised courses is encouraged, but only after ensuring that the fundamental courses which constitute a part of the Comprehensive Exam are covered. Courses covered by the comprehensive examination should, necessarily, be recommended even at the risk of the repetition, unless specifically requested otherwise by the student and his/her supervisor.

10.3   The course of Research Methodology will be one of two common courses offered by the college and shall carry three credits. The course for all engineering and most science departments shall cover such topics as Principles of instrumentation and data acquisition, accuracy and precision in measurement, sensors and instruments for physical, chemical and electrical measurements, statistical methods, basic numerical analysis, data presentation and computerised data management. The course on Research Methodology intended for students of Humanities, Social Sciences and Management shall focus on carrying out surveys, preparation of questionnaires, data recording and management, basic mathematical and statistical methods and use of common statistical software. A student is at liberty to choose one of the two courses under guidance of his/her supervisor.

10.4   The course on Scholarly Communication, offered and administered by a faculty member of CVRCE, will have four components: (a) attendance and appreciation of at least four seminars inside or outside the College expressed through short written reports, (b) a review paper on a topic of general interest not strongly related to his/her research topic, (c) a poster presentation and (d) a report of a patent search. While component (a) shall carry 40 points, the rest three will carry 20 points each. All components will be administered through on-line submission and archival for benefit of readers. Students working outside the college or granted withdrawal are also required to complete this course every semester by attending lectures and seminars in nearly organisations or webinars over Internet.

10.5   A student with B.Tech degree registering in another discipline of engineering or a student with M.Sc/MBBS/MBA/MCA/B.Pharm degree registering any discipline of engineering has to successfully complete additional B.Tech course credits of at least 06 covering the fundamental papers of his/her new discipline. Depending on the subject area, additional course work may be recommended by the DSC.

10.6   The coursework may be chosen from the existing PG (M.Tech.) programmes of the registering Dept. or from those of other departments. If a student joins the Ph.D. programme in the middle of a semester, he/she must take courses in the following semester. Delay of maximum 10 working days can be condoned in joining a course.

10.7   The specific subjects of study will be decided by the DSC on recommendation of the supervisor(s). When a student joins at the beginning of a semester, he/she may be advised by his/her supervisor (s) to attend classes of recommended courses even before the provisional registration process is officially complete. In case the courses approved by the Academic Council are different from the courses being taken by the student, the student may at his/her choice discontinue or complete the courses recommended by the supervisor(s).

10.8   The DSC, at its discretion, may leave up to 6 credits of course work as "Open; to be approved by HOD on recommendation of supervisor" to accommodate relevant courses offered by the college in future,

particularly new courses and courses offered by visiting faculty, or courses offered by reputed institutes in contact or distance mode. Like all recommended courses, these courses also need to be formally offered to postgraduate (M. Tech/ M Phil) students for credit and involve formal examination by the course instructor/administrator.

10.9   If recommended courses are eventually not offered by the departments, or there is another compelling reason, the DSC can amend the list at the request of the supervisor(s) at least 2 weeks prior to the starting of a semester. Any such change needs approval of Chairman Academic Council after recommendation by Dean (Academic). The change will be reported to Academic Council in its next meeting.

10.10   In addition to courses of the M.Tech programme, a Department may offer special courses for Ph.D. and M.Tech (R) students during the semesters or during summer vacation. If a course is offered in summer vacation, the total number of contact hours and the pattern of examination shall be the same as for courses taught during the normal semesters.

10.11   In special circumstances if no appropriate course is offered under formal instruction, existing courses may be taken in "guided self-study" mode, where a student studies the course from approved text and reference books under the guidance of a faculty member, and works on assignments and examinations. Formal classes will not be required in such courses; but a formal record is to be maintained for all discussions taking place between the student and the teacher. The system of evaluation and grade calculation will be same as that existing in M.Tech programmes. Courses under "guided self-study" mode will not be taught by a student's supervisor. Biometric attendance record, examination questions, answer scripts and student's own class notes - all are to be examined by Dean (Academic) before the grade in confirmed.

Ordinarily, a student should not be registered in more than two courses in self-study mode. It should be appreciated that the objective of course work is to enhance the breadth of knowledge. They should be relevant to the research area, but must not be repetition of the research subject.

10.12   It will be possible for a student to enrol in a course not offered by CVRCE, in another Institute (NIT/IIT/IISc) or University of repute for a course and transfer the credits to CVRCE to satisfy the requirements of Ph.D. degree. A proposal for such transfer must be submitted by the supervisor to the DSC along with all details (syllabus, duration of instruction, name and details of instructor). The DSC's recommendation will be placed before the Academic Council. In case of urgency, the Chairman, Academic Council may approve enrolment in the course in consultation with Dean (Academic).

On completion of the course work, the student shall submit to the academic section the official grade certificate signed by the competent authority of the Institute where the course was taken. A photocopy may be submitted to the HOD for departmental record.

10.13   All doctoral students, resident or non-resident and of all categories, must register for the three-credit course named "Scholarly Communication" in every semester. Resident students will satisfy the course requirement by attending College and Departmental Seminars, term papers, patent search and poster presentations to departmental audience. Non-resident students will submit equivalent amount of scholarly writing and reports on seminars attended at their own places of work. If a student does not accumulate the required credits with at least B grade, he/she will not be permitted to submit his/her thesis. In special cases, if a student is ready with his/her thesis but has not cleared the required credits, the Academic Council may, at its discretion, give him/her special assignments, appoint an examiner to evaluate the output without compromising the volume of work involved.

10.14   If a course is not offered by the College, a resident student may enrol in a course of the same content offered by another institute in the distance mode with prior approval of the chairman, Academic Council. This same facility is also available to students permitted to be non-resident, including students of category . The proposed course must be at a level higher than B. Tech/M.Sc and intended for students of M Tech / M Phil level in recognised universities. The course instructor/administrator should be conducting its examination and awarding grades at par with that of major universitites. It is the responsibility of the student and his

supervisors to convince the Chairman Academic Council that the proposed course is at the M Tech/M Phil level and the grade obtained

10.15   College employees including persons employed in sponsored projects may enrol in courses of their choice before enrolment in Ph.D. programme under intimation to the Academic Section. When they join a Ph.D. programme, the course and the credit earned may be counted towards course requirement at the discretion of the DSC

10.16   Ph.D. students enrolled in PG and UG courses are subject to the same regulations as applicable to other students in the courses with regard to attendance, discipline, assessment and grading.

11.   Comprehensive Examination and Registration

11.1   Every student enrolled in the Ph.D. programme is provisionally registered for the degree at the beginning of the programme. As a part of the provisional registration, the DSC, on suggestion of the supervisor(s), recommends:

(a)   the broad area of research, and
(b)   the course work to be done by the student.
The student continues to do course and research work for close to a year before his/her research plan is properly formulated.

11.2   A doctoral student, provisionally registered, will be formally registered for the degree of Ph.D. on completion of certain steps. The registration can be done only after (a) the student has successfully completed all assigned course work (See Section 10), (b) worked out a road map of his/her doctoral programme (c) successfully cleared the comprehensive examination and (d) delivered an open seminar to the satisfaction of the DSC.

11.3   On completion of the course work a student will appear in a comprehensive written examination to assess his/her depth and breadth of knowledge he/she has acquired in the intended field of specialisation. The examination will cover typically four post graduate level courses which will be pre-announced at least one year in advance. All DSCs will be encouraged to recommend these subjects for their respective students. The question paper, set by a team of faculty selected by the DRC, shall cover problems involving fundamental concepts and problems requiring knowledge of more than one paper. The qualifying mark shall be set at 60%.

11.4   After satisfactory clearance of this comprehensive examination, the student has to present his/her progress and plan of work to all members of the DSC [and a copy to Dean] in the form of a written document [Approximately 5 pages]. Within a week of handing over the report, the Department shall arrange a seminar by the student in the presence of the DSC, departmental faculty and an open audience.

The written document and the seminar should outline the planned research work and identify the milestones. Both excessive vagueness as well as exact description of the work to be done are discouraged at this stage to facilitate focused research work without being unduly constrained. The broad objective stated in provisional registration order may be further focused at the time of registration.

11.5   Normally this should be done after elapse of 9-15 months from date of admission, but not later than two years. When a student fails to clear the course work within 18 months, or his/her seminar performance is unsatisfactory, h e / s h e may be re-evaluated after a lapse of 3 months or more. If he/she cannot clear the course work, comprehensive exam and seminar within 2 years from the date of admission, he/she will be required to leave the Ph.D. programme. In special cases with mitigating circumstances, the Academic Council can grant extra time without scholarship.

11.6   The Head of the Department will send the application for registration [Form Res/111] to Dean (Academic) along with a copy of the student's written report and recommendation of the DSC. The matter will be placed before the Academic Council through RPIC for approval.

11.7 On approval of the Academic Council, the Academic Section shall bring out an office order [Form Res/112] confirming the Ph.D. registration of the student. The date of the successful seminar shall be the Effective Date of Registration.

11.8 At the end of every semester, the Academic section will issue an unsigned "grade card" on Form Res/113 listing all the courses taken and the grades obtained including courses on Scholarly Communication and Research Methodology. After the Ph D registration is completed, and also at the end of the academic programme, a signed grade sheet can be issued on student's request and payment of prescribed fees.

12   Project Record Book

12.1 The Project Record Book constitutes the bona fide record of project work carried out by undergraduate, postgraduate and research students of C.V. Raman College of Engineering. The book contains day to day record of all conceptual, analytical, laboratory and computational activities carried out by a student as a part of his/her project. The final thesis submitted by a student must be based on and only on the material contained in the project Record Book including separately stored documents with a reference in the record book. Contents of the thesis with no mention is the Project Record Book will be excluded from the thesis unless proven to be authentic by other evidence.

12.2 It is a permanent record of academic activity and contains intellectual property created by the student and his/her supervisor. It should be treated with respect and maintained with care. Pages must not be torn or used for rough work.

12.3 The student should record all his/her thoughts, observations, photographs, flow charts, computational steps etc., directly on this notebook. Use of second rough book and final copying to this record book is discouraged. In case certain information is too bulky to be pasted on the record book or is available only soft form, a short reference to the documents or computer files must be made on the record book. The final thesis shall be based only on the contents of the official record books and documents referred therein; any content from outside it will be prima facie deemed not to be the original work of the student, the burden of proving it otherwise shall rest on the student.

12.4 All information recorded here must start with a date on the left margin. The work of the day must be organized into sections such as objective, experimental or computational methods, observations, program flow charts, pseudo-codes, conclusion, discussion etc., as relevant to the problem at hand. Short computer prints, photographs, charts and graphs may be pasted neatly wherever necessary. The student must produce this record book before all Examination Boards for evaluation and grading of his/her day to day performance, and also at the time of Ph D registration, submission of synopsis and thesis.

12.5 The supervisor should examine the progress of the student and record his/her observations, comments and suggestions in a regular manner, and put his dated signature typically once every week. The book should also contain record of the academic discussions between the student and his/her supervisor.

12.6 On completion of the project, the student must surrender this book to his/her supervisor for archiving. If the same problem is continued by students of the following batch, the supervisor may choose to give it to those students for the sake of continuity. Projects with superior intellectual material may be sent to Departmental Library for permanent archival.

12.7 The students who do work worth publishing and/or patenting are advised to proceed with those activities. The IPR Cell of the college will organize the patenting process.

12.8 All research students shall be provided with Project Record books as per need with no limit on the number of books used. Blank books shall be provided by the Department Office or by the Academic Section.

12.9 The Project Record Book shall remain a property of the C.V. Raman College of Engineering and must be surrendered by the student along with the final copies of the thesis submitted for evaluation.

13   **Fellowship**

13.1   A doctoral student may be sponsored, self-financed or can get a scholarship. In case of students awarded a scholarship by an external agency or from a research project operating in the College, the rules shall be governed by the provisions specified by the sponsor. CVRCE's own doctoral fellowships shall be governed by the rules of set by the Board of Governors.

When the number of CVRCE fellowships is limited, they will be distributed among different departments by the Principal on recommendation of Dean (Academic). Generally, the number of fellowships will be proportional to the faculty strength, but changes can be made to ensure that the positions are filled to the extent possible.

13.2   Students who join with fellowship from sponsored projects or with external fellowships, and become self financed on termination of their projects, will get preference in award of College fellowship, if their academic performance is satisfactory and they have drawn fellowship from the project for at least 18 months. The total duration of scholarship, however, shall not exceed the limit set by the BOG.

13.3   CVRCE fellowships may not be awarded to candidates above 32 years of age on the date of selection. The restriction shall not apply to scholarships awarded by external agencies or sponsored projects.

14.   **Progress Monitoring**

14.1   The progress of the research programme of a student shall be continuously monitored by the Doctoral Scrutiny Committee. In practice, the committee will depend on inputs from the supervisors, HOD and the student. It will be the responsibility of the student to ensure that his/her papers remain up to date in matters of registration, course work, extension of fellowship, withdrawal and other formalities. In case of any deficiency, he/she should draw attention of his/her supervisor(s) and HOD, and if unsuccessful, that of the Dean (Academic) and Principal.

14.2   At the beginning of every semester, before applying for semester registration, the student should present a written report of his progress so far highlighting the work done during the previous semester along with his/her project record book, which will be examined by the DSC. The DSC's recommendation should be communicated by the supervisors to the student.

14.3   Although rare, sometimes there may be a breakdown of communication between a student and his/her supervisor due to physical distance or due to personal reasons. It shall be the responsibility of the student to bring such matters to the attention of HOD, Dean (Academic) and Principal. The College shall do the needful to establish communication or to make alternative arrangement.

15.   **Withdrawal**

15.1   A student, pursuing Ph.D. by working on campus, can become non-resident by taking withdrawal from the programme. Such withdrawal can be granted on one of the following grounds:

(a)   When a sponsored student wishes to return to his/her place of work on completion of at least two months of residence requirement, provided that such a scenario was mentioned in his/her application for admission. He needs to re-visit the college and complete residence requirement. The minimum required duration of work will be extended by one year, except when the student is employed in a superior R&D organization.

(b)   When, on the certification by the supervisors, the DSC is satisfied that most of the experimental/computational work has been completed, and that the student can finish the rest of the project from outside. In this case the student shall be required to submit a long report and his/her project record book for scrutiny by the DSC.

(c)   When a regular student returns to his/her original place of employment or secures new employment and the DSC is satisfied that adequate facility exists in his/her place of work to carry out the project. The employer's sponsorship and a second supervisor must be ensured before such requests are considered by the DSC. This is possible only if the students have only one supervisor or the original co-supervisors opts out.

(d)   Any other circumstances, which in the opinion of the Academic Council, justifies withdrawal.

15.2   The following rules shall govern the withdrawal process:

(a)   The student shall do semester registration regularly, personally visiting the College at least once a year.

(b)   He will pay all applicable fees every semester.

(c)   He will purse the course work as per rules, including the courses on Research Methodology and Scholarly Communication.

(d)   He will complete the programme within the stipulated period (8 years) including the withdrawal period.

15.3   A student must apply to Dean (Academic) through his/her supervisor(s) and HOD for withdrawal in prescribed form [Form Res/114] along with a report on the work done so far and plan of activities in future. The Supervisor will state the status of the project and the DSC will examine the proposal. Withdrawal can be granted provisionally by Principal if satisfied, and be presented to Academic Council for final approval. The Assistant / Deputy Registrar (Academic) will issue an office order for withdrawal order in Form Res/115.

16.   Submission of Thesis

16.1   A doctoral student can submit his/her thesis after elapse of at least two years from the date of registration (done in accordance with the provisions of section 11 of these regulations.) In case of students who have taken withdrawal before elapse of two years from the date of registration, the earliest date of thesis submission shall be extended by a period of one year.

16.2   Prior to submission, and after completion of 2 years from the date of registration, the student will submit (a) Form Res/116 duly filled and recommended by the supervisor(s), (b) a draft copy of the thesis (hard and soft copies), (c) a synopsis of the thesis [limited to 10 pages including tables, graphs and references], and shall present a seminar to an open audience, which will include members of DSC. Copies of the synopsis and the draft thesis should be handed over to the members of the DSC and Dean (Academic) at least one week before the date of the seminar. All Project Record Books need to be submitted to the DSC on the day of the seminar for examination. If the DSC is satisfied with the extent of work done, and the quality of the thesis written, the candidate will be allowed to submit the thesis. The DSC should confirm that the student has successfully completed the prescribed course requirement including courses on research Methodology and Scholarly Communication. If the DSC is not satisfied with the progress of work, the candidate has to appear again after the lapse of 3 months or more.

16.3   The draft thesis and the synopsis will be checked first by the supervisor and then by the College administration for possible plagiarism through computerised tools.

16.4   In extreme cases, if the DSC feels that the candidate cannot complete the thesis leading to Ph.D. degree, it can recommend to the Academic Council for award of M.Tech (Res) degree subject to satisfying all requirements of the latter programme.

16.5   If approved by the DSC, the student shall submit Forms Res/117 to the Academic Section, through his/her supervisor and the HOD, three copies of the thesis neatly typed or printed and bound in a manner notified separately. The thesis must contain, besides the text and common matters like bibliography/references and summary/conclusions, the following:

16.5.1 A certificate from the supervisor(s) that (a) the work has been carried out under his/her/their supervision, (b) the candidate has fulfilled all prescribed requirements for the Ph D degree and (c) to

the best of his/her (their) knowledge, the thesis is based on the candidate's own work a n d has not been submitted elsewhere for a degree or diploma.

16.5.2 An abstract of the thesis (about 500 words) with maximum 10 key words or phrases.

16.5.3 A preface in which the candidates shall state whether the thesis is based on discovery of new facts or new interpretation of established facts, or based on exhaustive study and critical analysis of published work of others, or design, or development work undertaken or applied research work.

16.5.4 Bio-data of the candidate within one page (i.e. name, date of birth, educational qualification, research experience, professional experience, if any, and permanent home address).

The candidate will also submit two copies of the thesis in electronic form (CD) and permit the College to use it in any manner that the College thinks fit. For the present, the electronic text should be submitted as two folders: one containing MS-Word/Latex files and another PDF files.

16.6   Format of the thesis should be uniform across all departments. Students are expected to use only metric units (preferably S.I. units) in reporting of all experimental and computational data, and to maintain appropriate number of significant figures.

16.7   The student shall submit all his/her Project Record Books to his/her supervisor, for achieve in the latter's laboratory.

16.8   The Principal supervisor will forward three copies of the thesis to the Academic section through the HoD along with supervisor's report, one from each of the supervisor, and a certificate stating that additional copies of the thesis (one for each supervisor) and all the Project record books have been received by him/her. The supervisor's report may bring out the strengths of the thesis, the weakness if any, and the constraints that led to the weaknesses.

16.9   Ordinarily the Ph D thesis will be written in English language. Any exception shall need approval of the Academic Council by a resolution of the council, for which a request should be made by the student with full justification to the Chairman of the council through the DSC and Dean (Acad) at least six months prior to submitting the synopsis for evaluation.

17   **Evaluation of Thesis**

17.1   The DSC will suggest [Form Res/118] a list of 10 examiners, 5 from India and 5 from abroad. After successful completion of the synopsis seminar by the candidate the examiners' list along with a copy of the synopsis will be placed to the Principal through Dean (Academic) to select two External Examiners, one from each panel, in order of preference. The Principal may add any name to or delete any name from the list suggested by the DSC .

17.2   Efforts should be made by the DSC to identify the external examiners from among reputed workers in the field, preferably those whose publications find mention in the thesis as references. External examiners may be drawn from Universities and colleges, R&D labs, Industry and other centres of activity is the field of research. As a guideline, their home institutions should be within the top of 100 colleges in NIRF ranking and of similar standing among R&D labs, industry and overseas colleges.

17.3   After obtaining approval of Principal, the Dean (Academic) will send a formal letter to the external examiners along with a copy of the synopsis requesting for acceptance of the responsibility of adjudication. After receiving the consent, the thesis will be mailed along with proforma of Examiner's report. In case of refusal, the second examiner in order as ticked by the Chairman of the Academic Council will be contacted and so on. If in this process, the list is exhausted, the Dean (Academic) may ask the DSC to submit another list

17.4   After reports of both external examiners are received, the reports shall be summarised by Dean (Academic) and placed before the Principal with a recommendation. After obtaining Principal's approval, the reports will

be forwarded to the DSC. There may be four possible situations arising out of the nature of the reports. The steps to be taken, appropriate to the circumstances, are laid down below:

17.4.1 The examiners are unanimous in recommending the award of the degree without any modification of the thesis. This is a clear case for going for the final requirement of viva-voce.

17.4.2 The external examiners are unanimous in recommending the award of the degree but at least one of the examiners has suggested modification and/or has asked for clarifications. The candidate in that case shall make modifications and provide the clarifications as suggested within a time to be fixed by the DSC. These may be sent to the examiners, if so desired by them.

17.4.3 One of the external examiners does not recommend the award of the degree and rejects the thesis whereas the other external examiner recommends the award. The DSC in such a case may either ask the candidate to do additional work and modify the thesis as suggested within a given time not earlier than four months. If satisfied, the modified thesis may be sent to the same examiner once again, or the DSC may recommend to the Chairman, Academic Council to choose another external examiner (the next in the original list of examiners) and send the thesis to him/her in its original form. The third examiner will be provided with copies of the evaluation reports of all external examiners as well as supervisors' reports, with the names of the examiners deleted. The recommendation of this third external examiner shall be taken as final.

17.4.4 Both the external examiners reject the thesis; then the student is declared, "failed". In such a case, the DSC may recommend re-working of the Registration document and the milestones to be achieved, and permit the student to do additional work before submitting the thesis with the same or a different title. The minimum duration for the fresh thesis to be submitted is 2 years from the date of approval by the Academic Council.

17.5 In the event of a thesis being rejected by the external examiners, the Academic Council may, on the recommendation of the DSC, permit submission of a new thesis on an additional payment of the prescribed fee, after a suitable time to be fixed by the council (Not less than one year from the date of the student's request and within 8 years from the date of enrolment). The observations and comments of the examiners, if any, may be copied and given to the candidate on request. In no case should a resubmission of the thesis without modification along the lines of criticism made by the earlier examiners be allowed. The revised thesis shall be referred for assessment to two external examiners selected from a new panel of ten experts recommended by the DSC. The new examiners will be provided with copies of earlier thesis examiners' reports and details of changes made in addition to the revised thesis. The examiners need to respond specifically to the observations of the earlier examiners and the changes made by the student before re-submission.

17.6 After the recommendations of the DSC (either for acceptance of the thesis for the Ph.D. degree or for its rejection/ modification) have been accepted by the Academic Council (or its Chairman on its behalf) a copy of the reports of the examiners may be issued to the candidate at his/her request. However, the names of the examiners are not to be disclosed.

17.7 Once the reports of the examiners have been accepted as satisfactory, the candidate will have to defend the thesis before a viva voce board consisting of all DSC members and an "external" examiner. The defence will be open where faculty members and students of the parent as well as other departments will be invited. The evaluation, however, will be done by the DSC along with the external examiner. The 'external' examiner may either be one of the experts who have already adjudicated the thesis or be another expert appointed for the purpose. The viva voce board may recommend changes in the thesis.

If the viva voce board is not satisfied, the candidate has to incorporate suggested changes in the thesis and appear again before the board after elapse of three months. The DSC shall recommend to the Academic Council the award of the Ph.D. degree if the viva voce is satisfactory and all other requirements have been fulfilled.

17.8 A situation may arise where the external examiner who adjudicated the thesis is not in a position to travel to the College for participating in the oral examination. In such a case, the Chairman Academic council, assisted by the Dean (Ac), may choose the next examiner from the panel of Indian examiners, and in extreme cases, permit the external examiner to participate in the oral examination process by video conferencing.

17.9 On completion of the viva voce, the student will submit two copies of the revised thesis and two copies in electronic media which will be archived in College and Departmental Libraries. The student will also give copies of the final bound thesis and the CD to each of his/her supervisors. The bound thesis shall contain an additional page of examination with signatures of the viva voce board consisting members of the DSC and the external member. The supervisor will despatch the relevant materials to the Academic Section through the HOD. All available copies of the old (pre-evaluation) version will be returned to the student...

18 Award of Degree

18.1 On the recommendation of the Doctoral Scrutiny Committee, the Academic Council Chairman, (when the Council is not sitting early) shall decide whether the candidate should be awarded the degree of Doctor of Philosophy. If satisfied, the Principal of CVRCE shall recommend the student to BPUT for award of the degree by the University.

18.2 Normally a student will be awarded Ph.D. degree in the branch of study in which he/she is enrolled. But in exceptional cases, the DSC may recommend to the Academic Council to award the degree in another branch depending on the contents of the thesis. This can be done at the time of provisional-registration (preferred), Registration or even after the thesis is submitted.

18.3 The UGC mandates prior publication of results in at least three papers, one of them being on a reputed journal (list given by UGC) before a student can submit his/her Ph.D thesis. This is binding on students of CVRCE.

18.4 Copies of the thesis and recommendation of the Academic Council shall be sent to BPUT by the Principal for award of the Ph.D. degree.

18.5 A programme completion certificate [Form: Res/119] may be issued to the student on approval of the Principal. The certificate shall mention that a recommendation has been sent to BPUT for its consideration for award of the degree.

18.6 On award of the Ph D degree, the complete thesis will be posted on college web site for unrestricted access including facility for downloading. The student shall also be at liberty to publish the contents.

19. Intellectual Property Issues:

19.1 A research project leading to a Ph.D degree is a joint activity by the student, his/her supervisor(s) and, (wherever applicable) fellow students working under the same supervisor in the same area. All intellectual property generated in the project, in principle, belong to all of them, though not in equal fractions.

19.2 If the stake holders do not come to a consensus about sharing of the credit, the college will appoint a committee consisting of Dean (Research) as Chairman with Chairs of the DSCs of the students as members. They will examine the project record books of all students involved as well as discussions and signatures of supervisors, establish the evolution of the ideas, and then recommend the fraction of ownership of the intellectual property created for each stake holder. The recommendation will be placed before the Principal through Dean (Acad). The Principal's decision shall be final and bending on all the concerned. The future returns will be shared among the originators of the ideas in a manner thus arrived at, the college and the funding agencies if any as per IPR policy of the college.

19.3 Students are encouraged to publish and patent their research funding during the course of their Ph.D work. The concerned student and his/her supervisor(s) will normally be authors of all papers, except when they mutually agree that one or more of them have not contributed enough to deserve authorship of a paper or patent. Ordinarily, unless the journal policy dictates otherwise, the student making the highest contribution shall be the first author and the Professor making the highest contribution (in terms of guiding the students) shall be the last author. This guideline, however, is not binding.

19.4 It will be an academic offence on the part of a student to publish a paper all by himself or in combination with others without the consent of his/her Principal supervisor. If such a situation arises, the Academic Council, may take disciplinary action as it thinks fit. When supervisors publish material (ideas, data, and programs etc, recorded on the student's Project Record Book as his/her original work) without giving due recognition to a student, it will also be seen as an academic impropriety and the college authorities shall take commensurate administrative actions.

19.5 It is obligatory on the part of Ph.D students and their supervisors to identify themselves as belonging to C.V. Raman College of Engineering in all publications. Students who are employed in other institutions and enrolled in CVRCE for doctoral work may record their dual affiliation.

19.6 When more than one student work on a common problem under the same supervisor, they need to share the computational and experimental data commonly arrived at. Depending on the effort put in by the individual student, the supervisor shall decide how the data will be distributed among the two or more theses. The students shall have the option to include the common data in both.

20 Conduct and Discipline

20.1 Students shall conduct themselves within and outside the campus in a manner befitting the students of an Institution of National standing.

20.2 Conduct rules applicable to postgraduate students of CVRCE will also be applicable to students of the Ph.D. programme.

21 Progress Monitoring

21.1 The college will monitor the work of every Ph.D student, identify bottlenecks and ensure that he/she is making reasonable progress in his/her work. Students not making progress for more than one semester will be advised to discontinue the programme.

21.2 Every Ph.D student shall submit a report and make a presentation on his/her work once a year in the presence of his/her DSC both before and after his/her formal registration. If the DSC is not satisfied with his/her effort or his/her progress, it can recommend extending his/her earliest date of thesis submission. While making the recommendations, the committee will mostly rely on the Project Record Book, and also on the associated hardware and software developed.

21.3 If the DSC is not satisfied with the progress, it may choose to evaluate again after an elapse of 6 months. If the student fails to satisfy the committee over 3 consecutive evaluations spanning over a period of one year, the student may be asked to discontinue his/her programme.

22 Academic Discipline and honesty

22.1 These regulations recognize that academic honesty is the foundation of a superior research program by a Ph.D student. Plagiarism of any sort will be considered a serious academic offence.

22.2 Plagiarism shall cover such items as : (a) conscious reproduction of ideas, drawings, photographs, computer programs and text from other authors, published or unpublished, without acknowledging the source and thus taking credit for the creation, (b) reproducing one's own work done outside the period of enrolment in the Ph.D program, the work not being recorded in the student's Project Record Book, unless specifically exempted by the Academic Council at the time of provisional registrations and (c) any other content which in the opinion of the DSC is not a creation of the student.

22.3 Before the draft thesis is accepted for evaluation, it will be subjected to a computerized contents check using a standard software like Turnitin to identify the similar contents. The DSC should be satisfied the similar contents do not represent unethical reproduction of any kind, before the final draft is submitted for evaluation.

22.4 When more than one student work in a team on the same topic, using the same R&D resources and jointly creating scholastic output, the supervisor shall divide the material to be included in each individual thesis. Some contents, such as photographs, drawings and programs etc can form part of two or more theses; but such sharing of information should be clearly mentioned in the theses.

23.   Termination of Studentship

23.1   The tenure of a research. student may be terminated by the Academic Council on exceptional grounds. They are:

1.   Recommendation of college's Disciplinary Committee.
2.   Poor progress as noted by the Doctoral Scrutiny Committee and Departmental Research Committee (DRC). Such a decision may be implemented only after approval of the Academic Council.
3.   Failure to do semester registration for two consecutive semesters (At the beginning of the following semester.)
4.   Prolonged absence (exceeding six months) from the college without sanctioned leave or withdrawal.

24.   Transition issues

24.1   At the time of introduction of these regulations, several students, particularly members of the faculty of CVRCE, are engaged in research in the college using college facilities but enrolled in other institutions. If any of them wishes to transfer to CVRCE, they may be accepted by the Academic Council on case to case basis. The academic record of each individual student may be created taking into consideration the courses completed, registration status and the progress of research work. All subsequent actions will be governed by provisions of these regulations.

25.   Dissemination of information

25.1   A copy of this document shall ordinarily be given in print or electronic form to every Ph.D student on admission to CVRCE. It will also be made available on the college's web site. Not possessing a copy, however, shall not exempt a   student from complying with these regulations.

25.2   The Assistant/Deputy Registrar (Acad) is authorized by the College to issue formal certificates of studentship [Form AC/115] and Expenditure Certificate [Form AC/116]. Dean (Academic) will sign all certificates of studentship on   behalf of the college when external agencies seek such certificates from Head of Institution.

25.3   On publication of final results by BPUT a student will be issued a provisional certificate on Form AC/127 and a college leaving cum migration cum conduct certificate on Form AC/126. Forms AC/127 will be signed by Dean (Academic) on behalf of the Principal while Form AC/126 will be signed by Dean (SW). The final degree certificate will be awarded by the Biju Patnaik University of Technology.

26.   Exceptions

26.1   These regulations shall come into effect from AY 2018-19 Autumn Semester. On introduction of the Ph.D programme at CVRCE, it is expected that some constituents of the college, particularly members of the faculty, who are enrolled in Ph.D programmes of BPUT or of other Universities/Colleges may choose to terminate their existing studentship and migrate to CVRCE. Such cases will be managed by the Academic Council on case to case basis, giving due credit for the work already done.

26.2   Notwithstanding anything stated in these regulations, the Academic Council can make special provisions and exceptions depending on the merit of a case. Such cases shall not be cited as precedence in future occasions of similar nature, because two situations appearing similar may not be identical.

26.3   In emergency situations, the Principal of CVRCE in capacity of the Chairman Academic Council, can exercise powers of the Council and discharge its   functions. Such decisions must be reported to the Academic Council at its next meeting.

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APPENDICES

Appendix – I	List of Departments offering Ph.D. programme
Appendix – II	Research Programme Implementation Committee(RPIC)
Appendix – III	Departmental Research Committee (DRC)
Appendix – IV	Fee structure for Ph.D students
Appendix – V	Qualifying degrees for admission to Ph.D. programme
Appendix – VI	Norms for Admission of sponsored students

LIST OF DEPARTMENTS OFFERING PH.D. PROGRAMME

A.   ENGINEERING

1.   Civil Engineering

2.   Chemical Engineering

3.   Computer Science & Engineering

4.   Electronics & Communication Engineering

5.   Electrical Engineering

6.   Mechanical Engineering

7.   Electronics & Instrumentation Engineering

B.   SCIENCE, HUMANITIES AND SOCIAL SCIENCES

1.   Chemistry

2.   Mathematics

3.   Physics

4.   Humanities & Social Sciences

5.   School of Management

THE RESEARCH PROGRAMME IMPLEMENTATION COMMITTEE (RPIC)

Composition:

Dean of Academic Affairs (Ex Officio)	Chairman
Dean (Postgraduate Studies)	Member
Dean of Research -	Member
Four Members of the Academic Council to be nominated by the Council, for a period of two years by rotation. [Two members to be inducted during alternate years]	Members
A senior faculty member or scientist of an institution of national standing located in Bhubaneswar or its vicinity, to be nominated by the Academic Council	Member
Deputy Registrar/Asst. Registrar (Academic), or an officer nominated for the purpose by the Principal	Secretary (Non-Member)

Functions:

- To scrutinise and recommend draft regulations and procedures pertaining to research programmes leading to Ph.D., M.Tech.(Res) and any other degrees decided by the Academic Council.
- To suggest norms of admission of research scholars to various research programmes leading to Ph.D. and M.Tech.(Res) degrees of the college;
- To examine list of candidates recommended the departments for admission to the Ph D programme before being placed before the Academic Council or its chairman for approval.
- To scrutinize and recommend on the proposals of the Departmental Committees in respect of offering research scholarships, fellowships and associateships.
- To scrutinize and recommend to the Academic Council proposals of Doctoral and Masters Scrutiny Committees in respect of registration, progress and continuation of individual scholars and award of degrees on the basis of adjudication of thesis and viva voce.
- To ensure that all norms of academic and residential requirements for each research scholar/fellow are strictly followed.
- To advise the Doctoral and Masters Scrutiny Committees on any matter relating to the research programmes of the students.
- To examine any proposal for a student of M.Tech. (Res) programme to be shifted to Ph.D. Programme and vice versa.
- To examine and recommend cases of advancement of thesis submission proposed by DSC.
- To bring out comprehensive reports on the Ph D programme of the College thrice a year (November, March and July) and submit to Academic Council through Dean (Acad) and Principal.
- Any other function assigned by the Academic Council or by the Principal on its behalf

Frequency of the Meetings: Before every meeting of the Academic Council, and on request of Dean (Acad) or Principal as per need. All agenda items related to the Ph D programme – rules, procedures, as well as individual issues, must be routed through the RPIC before being discussed by the Council. In urgent cases, the chairman of the council can make an exception after recording the reasons for the exception in the agenda papers.

THE DEPARTMENTAL RESEARCH COMMITTEE (DRC)

The following shall the members of the Committee:

1.	Head of the Department (Ex officio)[#]	Chairman
2.	Four seniormost members of the faculty of the department[#]	Members
3.	Two visiting faculty or advisors, or senior faculty of sister departments nominated by the Dean (Acad)	Members

[#] Membership shall be limited to Professors and Associate professors with or without a Ph D degree and Assistant Professors with a Ph D degree. Professors and Associate professors who are enrolled in a degree programme at CVRCE or in any other university, will not be eligible for serving as members or chairman of the DRC.

One of the members shall be designated as Convenor of DRC who will be the custodian of all departmental records and be responsible for (i) preparing agenda and calling meetings of the committee, (ii) preparing and circulating minutes of the meetings, and (ii) ensuring that the Ph. D programme of each students proceeds as per rules. Minutes of the DRC meetings will be posted on the College web site as soon as it is signed by the HOD and circulated among the members. Hard copies of the minutes will be sent to the offices of Dean (Acad) and the Principal.

The Committee shall be reconstituted at the beginning of every academic year on suggestion of the HOD and approval of Principal..The functions of the Committee shall be as follows:

- To conduct the process of selection of research scholars according to Ph.D. and M. Tech (Res) regulations, and recommen candidates for admission.
- To recommend deserving cases for college fellowship.
- To recommend supervisors for the Ph.D. and M Tech (Res) students of all categories admitted to the department.
- To constitute Doctoral and Masters Scrutiny Committees.
- To fix syllabi of Comprehensive exams for Ph.D. and M. Tech (Res) students, to conduct the examinations and decla results.
- To conduct registration proceedings, synopsis and thesis submission for each student in time.
- To continuously monitor the progress of work of all enrolled Ph.D. and M.Tech (Res) students and to recommend remedia measures for poor performance, if any.
- To recommend to the Principal actions on special requests of Ph D and M Tech (Res) students, such as exemption residence requirement, allocation of supervisor on retirement or long leave of Principal supervisor etc., in consultation wit Doctoral or Masters Scrutiny Committees.
- To bring out comprehensive reports on the Ph D and M Tech (Res) programmes of the department thrice a year (Octobe February and June) and submit to Academic Council through Dean (Acad) and Principal.
- To suggest amendments to Ph. D and M Tech (Res) regulations to Academic Council based on experience.
- To advise Dean (Academic), Dean (research) and the HOD on ways and means of improving research climate in th department.
- To advise Dean (Research) and HOD on measures to be taken to support investigators of sponsored research and consultanc projects, and to propose measures for enhancing the number and value of such projects in the department.
- To suggest curricular improvements to the departmental Board of Studies.
- Any other duty assigned by the Academic Council or the HOD related to the College's research programme.

FEE STRUCTURE

1. The tuition fees of research students shall be equal to that of postgraduate (M.Tech) students of the college.
2. In addition to tuition fees, the scholar shall be required to pay admission fee, thesis examination fee and any other fee that the Board of Governors decides.
3. On request of a student, the Principal may, at his/her discretion, sanction deferment of fees till the thesis is ready for submission, but all dues must be cleared before the synopsis is submitted for evaluation.
4. Members of the CVRCE faculty and research fellows employed in sponsored projects operating in the institute will be exempt from paying tuition fees; they however need to pay other fees applicable to them.

QUALIFYING DEGREES FOR ADMISSION TO Ph.D. PROGRAMME

Department	Requisite Academic Qualification
Civil Engineering (CE)	B.Tech in Civil Engineering, M.Sc in Mathematics
Chemical Engineering (CH)	B.Tech in Chemical / Biochemical / Biotechnology/ Metallurgical /Polymer/ Mechanical / Ceramic Engineering; M Sc in Chemistry
Computer Science & Engineering (CS)	B.Tech in Computer Science & Engineering / Electronics / Electrical Engg. / Instrumentation/ IT, MCA or M.Sc. in Computer Science
Electronics & Communication Engineering (EC)	B.Tech in Electronics / Telecommunication engineering/ Electrical Engg. / Instrumentation /Biomedical Engineering
Electrical Engineering (EE)	B.Tech in Electronics / Electrical & Electronics/ Electronics & Communication / Electrical Engg./ Biomedical Engineering
Mechanical Engineering (ME)	B. Tech. in Mechanical / Automobile / Biomedical / Aeronautical / Production / Manufacturing / Industrial / Metallurgical & Ma- terial / Polymer / Chemical Engg.
Humanities and Social Sciences (HS)	M.Sc. / MA in relevant subjects or B.Tech in any branch of Engineering, MBA.
Chemistry (CY)	M. Sc in Chemistry, Biochemistry, Physics or Life Science
Mathematics (MA)	M.Sc. in Mathematics, Statistics, B.Tech / M.Sc in computer science, information technology, MCA
Physics (PH)	M.Sc. in Physics, Chemistry or B.Tech in Metallurgy and Materials Engineering.
School of Management (SM)	Master's degree in Management Studies; Master's degree in any other discipline or Bachelor's degree in Engineering, Pharmacy, Medicine or Veterinary Science with at least five years of work experience

Notes:
- The above list of disciplines is only representative and does not reflect exact titles of the degrees. All degree titles having equivalent academic meaning will be fully admissible.
- For selection as Research Scholar in an Engineering Discipline, students from a B.Tech stream will be given preference over students from M. Sc. stream even if the latter has an M.Tech degree.
- In deserving cases, i.e. if the Academic Council is convinced that a student possesses the necessary academic background and has shown superior performance at appropriate levels, a student from any discipline may be eligible for admission to any branch with approval of Academic Council by a suitable resolution. The proposal from the department along with all documents will form a part of the student's academic records.
- Science students admitted to Ph.D programme in Engineering need Mathematics in +3 level.

NORMS FOR ADMISSION OF SPONSORED CANDIDATES

- The College may admit persons who are employed in other organisations (colleges/ research organisations/Government/NGOs/industries) to Ph.D. programme of any discipline.

- Such candidate should meet eligibility requirement as specified in clause 2.1 and 2.2.

- The candidate must have at least one year's experience of regular service in the sponsoring organisation. The candidate must produce evidence of his/her work experience in the form of appointment letter, salary slips, identity cards etc.

- A simple letter from the employer will not suffice to ensure satisfaction of Departmental Research Committee (DRC). It is the responsibility of the candidate to convince the DRC that he/she has served continuously for one years in the sponsoring organization and that it is a reported organisation.

- The requirements of one year's experience may be relaxed for personnel with permanent job (including probation) in the Central or State Govt. or an organization fully owned by the Government on request of the concerned organisation.

- Intending sponsored candidates must submit their applications in prescribed form for admission through their employers with suitable endorsement

- The sponsored students normally are required to stay in the College till completion of assigned work and submission of the thesis. However, in special cases, their residential requirement can be reduced by Chairman Academic Council on recommendation of the DSC to six months only as mentioned in Clause 7.1 & 7.2, provided they do not have to complete any course work during normal semesters. Continuous periods of stay less than 2 months in duration will not be counted.

- Sponsored candidates who intend to do a part of their work in the place of employment will be assigned a joint supervisor from their place of work, the details of which are given in the regulations.

- The DRC will ensure that sufficient number of qualified and experienced scientists/engineers are employed in the parent organization, so that one of them will serve as the second supervisor. The employer may enclose a copy of the bio data of the proposed second supervisor, which will be examined by the DRC.

- It is the responsibility of the candidates to furnish all necessary documents to convince the DRC on the credentials of their employer-organisation that the work (or a major part of the work) can be successfully carried out in their organisation. Annual reports of the colleges, faculty list and qualifications, publication lists and any other material that the candidate considers to be relevant may be presented.

- On completion of a course, a sponsored student is required to join back in the sponsoring organization and serve for a minimum period equal to the number of years of study leave granted, unless specifically released by the sponsor for a justified reason. The college, at its discretion, may refuse placement or admission in another programme to a student intending to return to the college, particularly when there is indication that the student or the sponsor has not acted in good faith. Such decisions shall be made by the Academic Council, or Chairman Academic Council on its behalf

- Detection of any breach of trust, submission of misleading document or concealment of information shall lead to termination of studentship at any stage of a student's tenure. In such a case fees already paid shall not be refunded.

LIST OF FORMS

Res/101:   Application for admission to Ph D programme

Res/102:   Scrutiny of applications for Ph d admission by DRC

Res/103:   Recommendation of DRC for admission of Ph D students

Res/104:   Letter of intimation for admission to Ph D programme

Res/105:   Application for Ph D enrolment

Res/106:   Office order on Ph D enrolment and constitution of DSC

Res/107:   Application for provisional registration

Res/108:   Office order on provisional registration

Res/109:   Application for permission to travel for Ph D course or research work

Res/110:   Ph D semester registration form

Res/111:   Application for Ph D registration

Res/112:   Office order on Ph D registration

Res/113:   Grade sheet of Ph D students

Res/114:   Application for withdrawal from college by Ph D students

Res/115:   Office order on withdrawal of Ph D student

Res/116:   Request for permission to submit Ph D thesis

Res/117:   Thesis submission form

Res/118:   DSC recommendation of Ph D thesis submission and list of external examiners

Res/119:   Ph D programme completion certificate