

(Declared under Section 3 of the UGC Act, 1956)

Porur, Chennai - 600 116

REGULATIONS FOR

THE DEGREE OF DOCTOR OF PHILOSOPHY (Ph.D.)

(Revised April 2016)

#### SRI RAMACHANDRA UNIVERSITY

Porur, Chennai - 600 116

# REGULATIONS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY (Ph.D.)

In exercise of the powers conferred by Rule 8 B (a) of Memorandum of Association & Rules and clause 21 of Bye-laws of Sri Ramachandra University, Porur, Chennai-600116, the **Academic Council** of the University hereby makes the following Regulations:-

## 1. SHORT TITLE AND COMMENCEMENT

These Regulations shall be called "THE REGULATIONS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY (Ph.D.) OF SRI RAMACHANDRA UNIVERSITY PORUR, CHENNAI-600116". These revised Regulations shall come into force with effect from April 2016 and are subject to such modifications as may be approved by the Academic Council from time to time.

#### 2. ELIGIBILITY:

# 2.1 FULL TIME CANDIDATES (FACULTY OF MEDICINE)

Every candidate who presents himself/herself for registration for the Degree of Doctor of Philosophy (Ph.D.) in Medicine, Surgery and their specializations must possess any one of the following educational qualifications, awarded by this University or of any other University or any other qualification recognized by this University as equivalent thereto:

- Degree of Doctor of Medicine (D.M.);
- Degree of Master of Chirurgie (M.Ch.);
- Degree of Doctor of Medicine (M.D.);
- Degree of Master of Surgery (M.S.);
- Postgraduate Diploma in the Faculty of Medicine and
- Diplomate of National Board of Examinations of India

# 2.2 FULL TIME CANDIDATES (NON-MEDICAL DISCIPLINES)

Faculty of Medicine, Dentistry, Pharmacy, Nursing, Allied Health Sciences, Biomedical Sciences & Technology and Management Sciences.

A candidate who presents himself/herself for registration for the Degree of Doctor of Philosophy (Ph.D.) must possess any one of the following educational qualifications, awarded by this University or of any other recognized University or any other qualification recognized by this University as equivalent thereto:

- Degree of Master of Science in the Faculty of Medicine (M.Sc. Non-medical 3 years course);
- Master's Degree in the Faculties including Dentistry/ Pharmacy/ Nursing/ Allied
   Health Sciences/ Biomedical Sciences & Technology/ Management/ Physiotherapy

## 2.3 FULL / PART TIME CANDIDATES (INTER-DISCIPLINARY RESEARCH)

Every candidate who presents himself/herself for registration for the Degree of Doctor of Philosophy (Ph.D.), as an "inter-disciplinary research candidate" must possess any one of the educational qualifications mentioned in regulation (2.1) or regulation (2.2) or one of the following educational qualifications awarded by this University or any other recognized University or any other qualification recognized by this University as equivalent thereto:

- Master's Degree in Basic Sciences
- Master's Degree or its equivalent in Engineering or Technology
- Master's Degree in Management Sciences

At the time of award of Ph.D. Degree, the candidate's basic postgraduate discipline as well as the research discipline will be indicated in the degree certificate as per the existing and to be introduced faculties in the University.

e.g., Inter-disciplinary (Microbiology - Biotechnology)

Candidates proposing to conduct interdisciplinary research should submit duly filled in proposal in the prescribed format (VIDE ANNEXURE-I) in addition to the overall research proposal to be submitted along with the application for provisional registration for Ph.D.

## 2.4 FULL TIME CANDIDATES (COMMON PROVISION)

Notwithstanding the above, only candidates who are stipendiary with scholarship/fellowships/ project positions from funding agencies, industries, governmental and non-governmental agencies would be considered for admission to Ph.D. programme as fulltime research scholars.

# 2.5 PART TIME CANDIDATES (INDEPENDENT RESEARCH)

- 2.5.1 Head of Department, Professor, Additional Professor or Associate Professor who is working in any department of this University with not less than ten years of teaching experience of which five years shall be at the postgraduate level and having a minimum of three research publications either as a principal author or as a co-author in any accredited journal, is eligible to register for the Ph.D. Degree without a guide as "Part time Independent Research Candidate". However, such candidate shall seek the guidance/assistance of not less than three experts in the concerned field, who shall be members of faculties not below the rank of Associate Professors and possess the qualifications prescribed by the University for being a guide, even though they need not go through the scrutiny committee.
- 2.5.2 The said three experts shall be members of the 'Research Advisory Committee' for the respective 'Part time Independent Research Candidate' and conduct the Research Methodology Examination for him/her at the end of the first year and send the report to the Controller of Examinations as provided in these regulations. Out of the three members of the Research Advisory Committee, one shall be the Convenor of the Committee as may be indicated by the candidate. At the end of the prescribed period of research, the Research Advisory Committee shall submit a panel of examiners for evaluation of Thesis and for conducting the public viva-voce examination for the independent research candidate concerned.

# 2.6 PART TIME RESEARCH CANDIDATES (Internal)

A candidate who fulfils the regulations as to qualifications specified in regulations (2.1, 2.2 & 2.3) and possesses at least one year continuous experience as permanent teaching faculty or researcher in a Department/Constituent college of this University on the date of provisional registration, may be permitted to register himself/herself as a part time scholar (internal) for Ph.D. Degree under a guide recognised by this University and such candidate shall be required to work under the guide directly at least for 90 days for instruction, discussion etc., during the prescribed period of research work. Where the guide is from an institution (as specified in regulations 8) other than this university such candidate shall necessarily have a co-guide from this university. The guide and

co-guide shall submit certificate of attendance of candidate (with dates) to the Controller of Examinations along with half yearly progress report.

# 2.7 PART TIME RESEARCH CANDIDATES (External)

## (Please also refer Regulation 8 infra)

Notwithstanding anything contained in these regulations, candidates possessing any one of the qualifications prescribed under regulations (2.1, 2.2 & 2.3) from this University or from any other university recognized as equivalent thereto and employed as a teacher or scientist in National/state level institutions/ Laboratories/ Research and Development (R&D) Centres/ Industries/ Universities in India and abroad, satisfying the stipulations under Regulation 8 and with experience prescribed under regulations 2.6 and who are permitted by the respective organizations for pursuing research leading to the Ph.D. Degree of this University on a part-time basis while continuing in employment, may be permitted to register for the Ph.D. programme on a part-time basis as external candidates. These candidates are expected to do research in their place of employment and in addition, they should undergo such course work, examination and research work as may be prescribed by the guide/Research Advisory Committee for a minimum of nine months during the research period directly under the guide in this University. In addition to the guide from this University, they shall have a co-guide from the institution where they are employed, provided such experts are recognized as guides for Ph.D. research by this University or the host University. The Co-guide of the candidate at the place of employment and the Guide at this University shall submit the certificate of attendance (with dates) to the Controller of examinations along with half-yearly progress reports.

## 3. DURATION OF RESEARCH WORK

#### 3.1 Full Time Candidates:

The candidates registered for the Degree of Doctor of Philosophy (Ph.D.) as full time research scholars shall undergo research work for a minimum period of THREE years from the date of provisional registration. However candidates with MD/ MS/ DNB/ MDS/ DM/ M.Ch qualifications, the period of research work and training would be a minimum of TWO years.

He/she shall attend the department for research on all working days, except for periods when he/she is allowed to visit other institutions/laboratories for activities connected with research for a period permitted by the concerned Guide.

#### 3.2 Part Time Candidates:

The candidates registered for the Degree of Doctor of Philosophy (Ph.D.) as part time research scholars shall undergo research work for a minimum period of FOUR years from the date of provisional registration. In the case of Part time candidates with MD/MS/DNB/MDS/DM/M.Ch qualifications, the period of research work and training would be a minimum of THREE years.

#### 3.3 Maximum duration:

The maximum period of research shall not exceed FIVE years for full time candidates and SIX years for part time candidates from the date of provisional registration.

## 4. PROCEDURE FOR ADMISSION TO Ph.D. PROVISIONAL REGISTRATION

- 4.1 There shall be a two-stage admission process for the Ph.D programme of the University with an Entrance examination followed by proposal presentation and viva voce. There shall be an All-India based Entrance Examination for admission for the Ph.D. Programme after due advertisement in National dailies twice a year viz., January and June of each Calendar year.
  - 4.1.1 Only those candidates who secure 50% and above would be eligible for applying for provisional registration.
  - 4.1.2 Notwithstanding the above, candidates who have passed the CSIR-UGC NET JRF examination (or) IRF examination by agencies like ICMR/DAE etc (or) GATE (or) selected already for JRF/SRF/Project fellows in research projects sanctioned by funding agencies to any of the faculty members of this University shall be exempted from appearing for the Ph.D. Entrance Examination.
- 4.2 A candidate applying for provisional registration shall submit an application in the prescribed form obtainable from the Registrar together with the fee, within the stipulated time furnishing the following information:-
  - 4.2.1 Qualifications and details of previous study and research if any, and full particulars of publications (with reprints) to his/her credit in accredited journals;
  - 4.2.2 Broad field of research in which he/she intends to pursue research;
  - 4.2.3 Detailed Research Proposal (11 copies) containing introduction; review of literature and lacunae in knowledge; aims and objective of the study; plan of work; materials and methods; hypothesis and anticipated outcome references; Questionnaire if any, duly signed by the Guide and Co-guide.

- 4.2.4 In respect of an inter-disciplinary research the main branch of postgraduate degree in which the candidate has qualified and the other field of research intended; (vide proforma for interdisciplinary research ANNEXURE-I) and the Faculty will be that of the main branch of postgraduate degree in which the candidate has qualified.
- 4.2.5 Name, Designation and full address of the guide/co-guide under whom he/she proposes to do the research.
- 4.2.6 List of candidates already registered for Ph.D. under the proposed guide/ coguide. (To be submitted separately for Sri Ramachandra University and other institutions)
- **4.3** Candidate who intends to carry out research in any other approved institution (see Regulations 8) shall forward the application to the Registrar of this University with the recommendation of the Guide from this University, Head of the Department and Head of the other Institution concerned.
- **4.4** Applications of the candidates will be placed before the University Ph.D. Admission Committee constituted by the Vice-Chancellor with experts from major discipline of the University. The Committee will examine the credentials of the candidate and the guide and review the quality of the research proposal after due presentation before followed by a viva voce. Candidates who have satisfactorily defended their proposed research alone will be recommended by the Ph.D. Admission Committee for provisional registration. If the Ph.D. Admission Committee does not prima facie find the applicant qualified and/or the research proposal suitable, it may recommend rejection of the application for provisional registration straightaway. The Committee may also direct the candidate to submit a revised proposal incorporating the recommendations made by it. It shall be mandatory for all the provisionally registered candidates to make a application of research proposal before the Institutional Ethics Committee and/or Animal Ethics Committee, whichever is applicable, on a date(s) specified by the committee, and to obtain approval by such committee(s) as a condition precedent for confirmation of provisional registration and for the candidate to take the Part I Research Methodology examination. It shall also be mandatory for the provisionally registered candidates to undergo a minimum of two course works, one on Research Ethics & Research methodology and the other related to the research area chosen before taking up the Part – I Research methodology examination as specified under 12.1.

4.4.1 Provided that a candidate who fails to get clearance from the Ph.D. Admission Committee as stipulated under regulation 4.4 will not be provisionally registered for the Ph.D. degree and his/her application for the same will stand cancelled and no refund of registration and application fees will be permissible. If the candidate fails to appear before the Institutional Ethics Committee and/or the animal Ethics committee on a date (s) specified by it, without prior permission or valid reason (or) fails to complete the stipulated course works, the Committee may recommend cancellation of provisional registration granted to the candidate.

# 5. APPROVAL OF PROVISIONAL REGISTRATION

- 5.1 Every candidate who is recommended by the Ph.D. Admission Committee for provisional registration, after satisfying the requirements prescribed under these Regulations shall, after approval by the Vice- Chancellor, be provisionally registered for the Degree of Doctor of Philosophy (Ph.D.). The list of such candidates shall be placed before the next meeting of the Board of Management for ratification and approval and also shall be placed before the Academic Council for information.
- 5.2 Every candidate provisionally registered for the Degree of Doctor of Philosophy (Ph.D.) shall be required to carry out research work under the supervision of a Guide and/or the Research Advisory Committee and undergo such courses of instruction as may be advised.

#### 6. REGISTRATION SESSIONS

**6.1** There shall be two sessions for registration of candidates for the Degree of Doctor of Philosophy (Ph.D.) as noted below:

Session	Last date for submission of Application					
April	15 <sup>th</sup> March					
October	15 <sup>th</sup> September					

**6.2** Schedule of Ph.D. Entrance Examination and Provisional Registration for Ph.D. Programme for Full Time & Part Time

	April Session							
i.	i. Release of Advertisement Month of December							
ii.	Entrance Examination	Month of January						
iii.	Publication of Results	Month of January						
iv.	Last date for applying for Provisional Registration for Ph.D.	15 <sup>th</sup> March						
	program							
V.	Ph.D. Admission Committee meeting	March/April						
vi.	Date of Provisional Registration	1 <sup>st</sup> April						

	October Session							
i.	Release of Advertisement	Month of June						
ii.	Entrance Examination	Month of August						
iii.	Publication of Results	Month of August						
iv.	Date of Counselling for Founder Chancellor Shri.NPV	Month of August						
Ramasamy Udayar Fellowship applicants								
٧.	Last date for applying for Provisional Registration for Ph.D.	15 <sup>th</sup> September						
	program							
vi.	Ph.D. Admission Committee meeting	September / October						
vii.	Date of Provisional Registration	1 <sup>st</sup> October						

#### 7. QUALIFICATIONS FOR GUIDE

A teacher/ scientist desiring to be recognized as a guide, shall apply in the prescribed application form together with complete curriculum vitae, full list of publications and reprints of research papers/articles published by him/her. This shall be placed before the Ph.D. Admission Committee for making suitable recommendations to the Vice-Chancellor for approval or otherwise as a Ph.D. guide. (VIDE ANNEXURE-II (a) & (b) for application format)

A teacher to be recognized as a guide for Ph.D. shall have:-

- 7.1 At least 6 years of Postgraduate teaching experience in the relevant discipline after having acquired MD/MS/DNB/MDS or equivalent medical/dental qualification with at least four publications in peer-reviewed/indexed journals to his/her credit as principal author or co-author as evidence of active research involvement; or with at least 5 years of Postgraduate teaching experience in the relevant discipline after having acquired MD/MS/MDS or equivalent medical/dental qualification with at least four publications in peer-reviewed/indexed journals to his/her credit as principal author or co-author as evidence of active research involvement in the case of those possessing DM/M.Ch. as additional qualifications
- 7.2 At least 2 (two) years of post doctoral (post Ph.D.) teaching/ research experience in respect of disciplines other than medical and dental with four publications in peer-reviewed/indexed journals to his/her credit as principal author or co-author as evidence of active research involvement;
- 7.3 Any request for approval of guide from exceptional researchers not fulfilling the criteria of 5 years Postgraduate teaching experience or 2 years of Postdoctoral research experience but with significant publication records will be placed before the Board of Research Studies and if recommended will be approved as a Guide by the Vice-Chancellor.

- 7.4 The Head of any approved Postgraduate Department of a Research Institute may also be recognized as a guide if he/she possesses postgraduate qualification of MD/MS/DNB/MDS/DM/M.Ch. with at least 5 years of teaching/research experience, of which not less than four years of teaching experience shall be at the postgraduate level and has at least four publications in peer-reviewed/indexed journals to his/her credit as principal author or co-author.
- 7.5 A guide shall not undertake to offer guidance for Ph.D. work for more than SIX candidates (including part-time scholars) at a time. However for reckoning the number of candidates under a guide, the number of candidates for whom he/she is acting as a co-guide shall not be taken into account. The number of candidates for whom a guide can act as a co-guide shall not exceed FOUR after ascertaining the number of candidates under their guidance.
- 7.6 For the purpose of reckoning the number of candidates (both full-time and part-time) under a guide (or co-guide) those candidates who have submitted their synopses of the theses to the Controller of Examinations, shall not be taken into account
- 7.7 A guide shall not undertake to offer guidance for Ph.D. work to any of his/her first degree relatives.
- 7.8 No guide shall enroll candidates for the award of Ph.D. Degree unless he/she has at least one year of service before retirement on superannuation. A guide who has more than one year of service before retirement may enroll candidates and continue as Guide even after retirement in respect of such candidates.
- **7.9** Candidates carrying out inter-disciplinary research shall have a co-guide in the proposed field of research.
- **7.10** The same qualification and other criteria stipulated for recognition as the guide are essential to be approved as a co-guide also.
- **7.11** While the maximum age limit for a guide to supervise a Ph.D. candidate is 65 years of age, it would be extended beyond 65 years in exceptional cases of expertise, provided he/she is associated with the University in a teaching/research position.

## 8. RECOGNISED INSTITUTIONS FOR Ph.D. DEGREE

Every candidate who has registered for the Degree of Doctor of Philosophy (Ph.D.) shall pursue research under the supervision of a guide in any one of the following Departments/ Institutions, wherever applicable recognized by this University, namely:-

**8.1** Any Department of this University;

- 8.2 Postgraduate Departments of recognized Universities or Colleges situated within the country having necessary facilities for carrying out research in the branch of study concerned, provided the Department has been offering the postgraduate course for a minimum period of THREE years;
- 8.3 All India Research Institutions, Regional Research Institutions or any other Non-teaching Research Institution having necessary facilities for carrying research in the branch of study concerned and approved by this University (VIDE ANNEXURE-III for requirements)

For the purpose of granting recognition to an institution not covered under regulations (8.1, 8.2, 8.3) above, the request made by such institution will be considered by the University based on the recommendations Ph.D. admissions Committee, a decision will be taken by the Vice-Chancellor taking into account the research facilities available therein.

### 9. RESEARCH ADVISORY COMMITTEE

- 9.1 There shall be a Research Advisory Committee (guide and two experts) for each research scholar constituted by the Vice-Chancellor based on the recommendations of Dean (Research) drawn from the panel of four members suggested by the guide. (Function of the Research Advisory Committee VIDE ANNEXURE-IV)
- 9.2 Where the part time research scholar (External) has a Co-guide from his/her institution, the Research Advisory Committee constituted by the Vice-Chancellor shall include also the guide from the University as Convenor, and one other member.
- 9.3 In case of interdisciplinary research where a Co-guide is approved, the Guide will be the Convenor of the Research Advisory Committee with one other member.
- **9.4** The members of the research advisory committee shall be recognized guide or be eligible to be as a guide for Ph.D. research.
- 9.5 The Research Advisory Committee shall have a meeting at the University convened soon after provisional registration and constitution of the committee to personally interview the candidate,
- **9.6** To review the research proposal and finalise the topic of research.
- **9.7** To guide the candidate to develop the study design and methodology of research; and
- 9.8 To suggest courses (theory and/or practical) to be undertaken by the candidate during the first year of his/her provisional registration. The courses prescribed together with syllabus shall be forwarded to the Controller of Examinations to set the question papers for the Methodology Examination at the end of the first year of provisional

- registration. On no account this process shall be passed through correspondence/circulation.
- 9.9 The Research Advisory Committee shall monitor the research work of the candidate concerned periodically, record his/her progress bi-annually in the format suggested (ANNEXURE-V) and send it to the Controller of Examinations and review the overall research work before final submission of the thesis by the research scholar.
- 9.10 In the case of research scholars doing inter-disciplinary research, the guide shall nominate a person, who is an expert in the other discipline concerned as well as the co-guide to be the member of the Research Advisory Committee, which shall perform the functions cited under regulations 9.4 to 9.8.
- **9.11** Any change in the membership of the Advisory Committee shall be effected only on approval by the Vice-Chancellor.
- 9.12 Research Advisory Committee shall ordinarily stand dissolved once the candidate submits the thesis. However, it shall be available till the end of public viva-voce examination for monitoring and advising candidates for whose thesis examiners have recommended modifications, corrections, etc., to be incorporated in the thesis before the public viva-voce examination.

## 10. CHANGE OF GUIDES AND TRANSFER OF SCHOLARS

- **10.1** Transfer of Ph.D. scholars from one guide to another guide can be effected, if mutual willingness was given by both the original and new guides
- 10.2 In the case of change of guide or transfer of candidates is proposed without the consent of any one of the parties concerned, the matter shall be referred to the Standing Committee of Board of Research Studies, whose decision shall be final.
- 10.3 The guides who wish to avail leave/lien/deputation beyond a period of six months shall nominate a co-guide in the concerned subject for the candidate(s) registered with them and the fact intimated to the Controller of Examinations in advance.
- 10.4 If the guide has not made any nomination, the Vice-Chancellor will appoint the guide from among the members of Research Advisory Committee

# Change of Institution of Research by Scholars

10.5 If any candidate during the period of research leaves the institution in which he/she originally registered for the Ph.D. degree and desiring to continue his research in another institution in which he has now joined, can do so only with the prior approval of the Vice-Chancellor who may grant approval, provided such institution is an

approved one, satisfying the conditions prescribed in these Regulations with specific reference to Regulations 8. In other cases, he may seek the recommendations of the Standing Committee of Board of Research Studies for taking a decision in the matter.

## 10.6 Conversion of Full-Time Registration into Part-Time and Vice-Versa

Notwithstanding anything prescribed in these Regulations, the University may permit conversion from Full-time research to Part-time research and vice-versa in respect of candidates registered, for valid reasons and subject to satisfying the Regulations, rules and conditions in force.

Provided that in the case of conversion from full-time research to part-time research, the whole period put in by the candidate, will be taken into account for purposes of reckoning the minimum period of research to be put in by the candidate and in the case of conversion from part-time research to full-time, 2/3 of the research period put in as part-time will be taken into account for purposes of reckoning the minimum period of research to be put by the candidate, to become eligible to submit the Ph.D. thesis.

### 11. PROGRESS OF THE RESEARCH WORK

- A research scholar shall appear before the Research Advisory Committee once in six months for progress evaluation. He/She is required to make a presentation of the progress of his/her work before the Research Advisory Committee for evaluation and further guidance. The six monthly progress report shall be submitted by the Research Advisory Committee to the Controller of Examinations with a copy to the candidate. (VIDE ANNEXURE-V) It shall be accompanied by an attendance certificate from the guide and co-guide, if any. Failure to submit two consecutive six monthly progress reports will entail the cancellation of registration of the candidate by the Vice-Chancellor on a report made by the guide and /or the Controller of Examination in this behalf.
- 11.2 If the progress of the research scholar is unsatisfactory, the Research Advisory Committee shall record the reasons for the same, and suggest correctives measures. If the candidate fails to implement these corrective measures, the Research Advisory Committee may recommend to the Vice-Chancellor with authenticated reasons through the Controller of Examinations for cancellation of the registration.

## 12. COURSE WORK AND RESEARCH METHODOLOGY EXAMINATIONS

- 12.1 The course work to be undertaken during I semester after provisional registration by all provisionally registered for Ph.D. candidates is as follows:
  - (i) Research Methodology and Biostatistics
  - (ii) Computer Applications in research
  - (iii) CITI Online Research Ethics Education course
  - (iv) Elective courses:

A course work connected with the topic of research as Hands on Training programme/workshop Review of Literature-

Relevant documentary evidence of having completed these course work duly certified by the Research Advisory Committee should be submitted to the Controller of Examinations before the conduct of Part – I Research Methodology Examination.

- 12.2 At the end of the first year after provisional registration and on completion of such course(s) of instruction, there shall be a Research Methodology Examination conducted in the University premises only and every candidate shall be examined by the Research Advisory Committee by written and oral tests to assess his/her skills. The guide may grant an extension period not exceeding three months time, from the due date, to the candidate with the approval of the Controller of Examinations, for appearing for the Research Methodology Examination. Normally the Research Methodology Examination will not be permitted to be carried over beyond a period of three months from the due date. However, application for extension of period to appear for Research Methodology Examination after the expiry of three months may be considered by the Vice-Chancellor on valid grounds and special circumstances, for not exceeding a period of one year.
- 12.3 The Research Advisory Committee shall prescribe the course work and methodology of research and conduct the Research Methodology Examination. This is applicable to independent research scholars also.

The Part-I Research Methodology Examination shall consist of the following:

Paper	Title of paper					
I	Research Methodology including Biostatistics and Computer					
	Applications in Research (theory only)					
II	An advanced paper in the subject concerned including the	100				
	involved instrumentation (theory only)					
III	Background paper relating to design and conduct of his/her Ph.D. work	100				
	Viva voce	100				
	Total marks	400				

Passing minimum is 50% of aggregate marks.

- 12.4 The syllabus for Paper I common for all disciplines will be framed by the standing committee of the Board of Research Studies.
  - The syllabi for Papers II & III will be prescribed by the Research Advisory Committee during its first meeting held for purposes of prescribing the course work, etc. for the candidate and should be forwarded to the Controller of Examinations, immediately after the meeting is over.
- **12.5** The Guide shall be the Convenor of the Research Methodology Examination.
- 12.6 A detailed report on the fitness of the candidate to proceed with the research work for the Degree of Doctor of Philosophy (Ph.D.) shall be submitted by the guide/ Convenor to the Controller of Examinations not exceeding fifteen days from the date of the Research Methodology Examination.
- 12.7 The detailed report submitted by the guide/Convenor duly attested by the other members shall contain the details of procedure followed for the written evaluation, experimental models, orals etc., and the percentage of marks secured by the scholar. The research scholar shall secure a minimum of 50% marks in the aggregate to be fit to proceed with the research work.
- 12.8 If any research scholar fails to qualify in the Research Methodology Examination, the candidate should undergo the course for a further period of six months. At the end of the said period, he/she shall be examined again by the same Advisory Committee and if found fit, he / she shall be permitted to proceed with the research work. The minimum period of research prescribed for submission of theses shall be extended by 6 more months in such cases.

- 12.9 A research scholar who does not qualify even at the second attempt shall not be permitted to continue his/her research work and his/her provisional registration shall be cancelled by the Vice-Chancellor without any further reference to the candidate.
- 12.10 An independent research scholar shall also appear for the Research Methodology Examination conducted by the Research Advisory Committee consisting of three members.
- 12.11 If a candidate fails to take the Research Methodology Examination at the end of the first year after provisional registration, without any prior approval/permission as prescribed under regulation (12.1) his/her provisional registration shall be cancelled by the Vice-Chancellor without any further reference to the candidate.
- 12.12 All Ph.D. registered candidates should register and attend the Orientation Programme in Research Methodology and Biostatistics and Computer Application of this University which will be conducted by the Central Research Facility of this University and the Department of Community Medicine, SRMC & RI before appearing for the Part I Research Methodology Examination.
- **12.13** Those provisionally registered for the Ph.D. degree should also register for the online research ethics programme CITI, offered by the University of Miami, Florida, USA, in collaboration with Sri Ramachandra University and obtain certification.

#### 13. CONFIRMATION OF PROVISIONAL REGISTRATION

The provisional registration of a candidate for the Degree of Doctor of Philosophy (Ph.D.) shall be confirmed on receipt of the report of passing the Research Methodology Examination conducted by the Advisory Committee and after approval of the Vice-Chancellor. After confirmation of the provisional registration, the candidate shall pursue research work for the period prescribed in the Regulations under the guidance of the guide and the Research Advisory Committee.

All correspondence of the Guide and the Advisory Committee intended to the University after provisional registration of the candidate shall be addressed to the Controller of Examinations.

#### 14. CANCELLATION OF THE Ph.D. REGISTRATION

14.1 In case of recommendation for cancellation of the registration by the guide based on reasons listed under regulations 12 & 14 the candidate shall be intimated about the grounds on which the registration is being proposed for cancellation. In case of any

representation from the candidate, the Controller of Examinations shall refer the matter to the Board of Research Studies, which may either suggest cancellation or change of guide depending on the merit of the case. The decision of the Board of the Research Studies shall be final.

14.2 Where a candidate has not submitted the thesis within the period prescribed under regulations 3.3 & 27.1 or has also failed to do so within the extended period under regulation18. 5 the Ph.D. registration of such candidate shall stand lapsed automatically and such candidate shall be discharged from the Degree of Doctor of Philosophy (Ph.D.) degree. However, such a candidate may, if he/she so desires may apply for re-registration for the Ph.D. degree after once again complying with the procedure prescribed under these Regulations.

#### 15. CHANGE OF FIELD OF RESEARCH

15.1 If a change of field of research becomes necessary, the research scholar should make a requisition seeking permission for change to the Registrar duly recommended by the Guide within one year from the date of provisional registration. Permission for change of field of research may be granted by the Vice-Chancellor considering the merit of each such request. No change in the broad field of research shall be permitted thereafter.

### 16. TITLE OF THE THESIS

- 16.1 The provisional title of the Thesis of each research scholar shall be intimated to the Controller of Examinations by the guide when the candidate qualifies the Part-I Research Methodology Examination.
- **16.2** The exact title of the Thesis shall be intimated to the Controller of Examinations at the time of submission of the synopsis.
  - No request for change of Title of the Thesis shall be considered after the submission of the synopsis.

#### 17. SYNOPSIS

17.1 Every candidate shall, not less than three months, prior to the expiry of the period of research prescribed and before the submission of the Thesis, submit to the Controller of Examinations six copies of the synopsis of the Thesis containing the exact title of the thesis, along with the prescribed fee through the guide or the Research Advisory Committee as may be applicable. No change in the title of the thesis is permissible after submission of synopsis.

- 17.2 Along with the synopsis, the candidate is required to present the completed research work to the guide/Research Advisory Committee.
- 17.3 The candidate will present a draft version of the synopsis and make an oral (power point) presentation/seminar in the University premises of his/her research work before the members of Research Advisory Committee and host department. Final synopsis will be modified suitably based on the recommendations of the Committee. This step will be considered a preliminary examination prior to the finalisation of doctoral thesis.

#### 18. SUBMISSION OF THESIS

- 18.1 Every candidate shall along with his/her application for the Degree of Doctor of Philosophy (Ph.D.), submit five hard copies and one electronic copy in CD to be given after the public viva-voce examination incorporating all the corrections, etc. of the Thesis along with the prescribed fee to the Controller of Examinations through the guide/Research Advisory Committee in the month of January or July, embodying the result of the research carried out by him/her. The thesis shall be forwarded in a confidential cover addressed to the Controller of Examinations by name. If the thesis is accepted/ approved, the Controller of Examinations shall place as a copy of the thesis in the library. The electronic copies shall be preserved in the digital archive of the University. After award of the Ph.D. degree the summary of each thesis, along with details of the candidates would be sent to UGC for hosting in its Website.
- 18.2 The title page of the thesis, cover format, etc., should strictly conform to the format of presentation as prescribed (VIDE ANNEXURE-VI) and the thesis (all copies) should carry a declaration by the candidate (VIDE ANNEXURE-VII) and certificate (VIDE ANNEXURE-VIII) duly signed and issued by the guide and co-guide, if any.
- 18.3 Supplementary papers to the Thesis like copies of reprints of publication as contribution to the knowledge of the subject may also be appended to the thesis by the research scholar. It is mandatory that each candidate need to publish/get the acceptance letter of at least two publications out of their Ph.D. research and the same need to be appended in the Ph.D. thesis.
- 18.4 The Thesis shall ordinarily be submitted not later than five years from the date of provisional registration in the case of full time scholars and six years in the case of part time scholars.

18.5 Where a research scholar has submitted the synopsis but is unable to submit the thesis within the time prescribed, extension of time for submission of thesis may be granted by the Vice-Chancellor subject to maximum of two more years for valid reasons, on payment of such penal fees as may be prescribed.

#### 19. EXAMINERS

- 19.1 While forwarding the synopsis to the Controller of Examinations the Research Advisory Committee will furnish a panel of nine external examiners (three from the Southern States, three from the rest of India and three from abroad) for evaluation of the Thesis and the public viva-voce examination as per the format to be obtained from the Controller of Examinations.
- 19.2 The Research Advisory Committee shall along with the panel enclose a certificate stating that all the examiners suggested are experts in the discipline concerned and qualified to evaluate the thesis.
- 19.3 The Vice-Chancellor shall, from out of the panel of nine examiners, select and appoint three examiners (one from the Southern States, one from the rest of India and one from abroad). The examiners so appointed will be supplied with a copy of the synopsis for their perusal and requested to convey their acceptance within four weeks to evaluate the thesis to be submitted by the research scholar subsequently.
- 19.4 In case the first panel of nine names of Ph.D. examiners is unable to accept the examinership, the Controller of Examinations shall call for an additional panel of examiners from the Research Advisory Committee. If the additional panel is also unable to accept the examinership, the Vice-Chancellor shall appoint examiner(s) as required in consultation with experts in the relevant discipline.

#### 20. VALUATION OF THESIS AND PUBLIC VIVA - VOCE EXAMINATION

- **20.1** The thesis shall be referred for valuation to three examiners as specified in these Regulations.
- 20.2 The Examiners who evaluate the thesis shall report to the Controller of Examinations on the merit of the Thesis for Ph.D. Degree as "Highly Commended", "Commended" or "Not Commended" in the format prescribed (ANNEXURE-IX), along with a detailed report. If at least two of the Examiners commend the thesis, such reports of the examiners will be sent to the Guide who will act as Convenor and prepare a consolidated report which shall include the main points made in the individual reports

together with a reference to critical comments and suggestions, if any, made by the examiners.

20.3 If one of the external examiners (India or abroad) reports the evaluation of the thesis "Commended", the Vice-Chancellor, having regard to the nature of the comments of the examiner who has not "commended" the thesis, may at his discretion, refer the thesis to a fourth examiner for evaluation and the fourth examiner so appointed shall be same category i.e., from Southern India,/rest of India / from abroad.

The fourth examiner, so appointed, will not be provided with the report of the other examiners. If the fourth examiner reports the evaluation of the thesis as "Commended" the candidate will be asked to appear for a public viva-voce examination prescribed in these regulations. If the fourth examiner also does not "Commend" the thesis, the candidate has to resubmit the thesis, after revision.

A candidate whose thesis has not been commended as specified above will be permitted to resubmit it a second time after carrying out additional work suggested and revising the thesis within a period of one year from the date of communication of the Controller of Examinations in this regard.

- **20.4** No candidate shall be permitted to submit the thesis or take the public viva-voce examination for Ph.D. Degree for more than two attempts.
- When the thesis is approved, the candidate shall submit himself/herself for a public viva-voce examination, to be conducted only at the University premises before the Guide (Convenor) and one examiner from India who evaluated the thesis. Such public viva-voce examination will be conducted only in the Sri Ramachandra University premises. He/she will be appointed by the Vice-Chancellor as external examiner for the viva-voce. If none of the examiners who evaluated the thesis is available, another examiner from the panel may be appointed by the Vice-Chancellor. At least six external teachers and/or scientists in the speciality concerned or allied speciality shall be invited to be present, for the viva-voce in addition to the faculty members of the department in which the candidate conducted research. The Guide (Convenor) shall convey to the Controller of Examinations the result of such public viva-voce examination, duly endorsed by the external examiner together with a list of names and designations of the participants, with their signatures. A candidate who is

successful in the public viva-voce examination shall be declared to have qualified for the Ph.D. Degree with effect from the date of the public viva-voce examination.

**20.6** A candidate who is not successful in the public viva-voce examination will be permitted to appear for the examination another time within a period of three months.

#### 21. FEE STRUCTURE FOR Ph.D. CANDIDATES

Application fee, registration fee, fee for recognition of degrees of other Universities, annual research fees and fee for submission of synopsis and thesis shall be payable by the candidates as prescribed by the University from time to time. (Annexure – XI)

#### 22. PUBLICATION OF THE THESIS

A thesis, whether approved or not, may be published in full as a book or in parts only with the permission of the University. (Vide Declaration form Annexure-X) However, a candidate can during the course of his/her research, publish papers in peer-reviewed/indexed research journals as advised by his/her guide. The candidate shall append the reprint copies of published research papers in the copies of Ph.D. thesis submitted to the University by him/her.

#### 23. STANDING COMMITTEEE

There shall be a Standing Committee of the Board of Research Studies consisting of such members of the Board of Research Studies as may be constituted by the Board of Research Studies, for considering any matter arising out of these Regulations or any other matter related to academic research that may be referred to it by the Vice-Chancellor and for making suitable recommendations thereon to the Vice-chancellor, for taking a decision in the matter. The meetings of the Standing Committee may be convened by the Vice-chancellor as and when necessary depending on exigencies.

The proceedings of the meetings of the Standing Committee shall be placed before the Board of Research Studies for information and ratification at its next meeting."

### 24. DECISION BY VICE-CHANCELLOR

In all other matters not specifically covered under these regulations, the Vice-Chancellor may take a decision having regard to the circumstances of the case and if he deems necessary he may refer the matter to the Standing Committee of the Board of Research Studies, for suitable recommendations for taking such decision

## 25. TRANSITORY PROVISION

This revised Ph.D. regulations shall come into effect from 1<sup>st</sup> January, 2012. However in the case of candidates registered for Ph.D. programme prior to 1<sup>st</sup> January, 2012 the previous regulations shall be applicable

# 26. Provision for recognizing certain categories as guides:

Emeritus scientists/ Emeritus Professors/ Visiting Professors/ Fellows of the University Departments/ Constituent Colleges of this University or teachers who are reemployed after their superannuation or of the institutions mentioned under Regulations supra and satisfying the conditions prescribed for recognition as guides, may be permitted to guide Ph.D. students (full-time and part-time) subject to a maximum of three candidates. However, they shall not be allowed to register candidates if they have completed *70* years of age on the date of provisional registration of the candidates(s).

# 27. Split Ph.D. Programme:

The split Ph.D. program is designed to provide a chance to the candidates to conduct a portion of their Ph.D. work in a recognized foreign university/ Institution or a recognised Indian University/Institution with which Sri Ramachandra University has signed an academic MoU.

The basic objective of this scheme is to develop good research exposure to research students and future collaborative research projects and to bring the international/National Universities and research institutes and industries closer with the host university through Ph.D. Program.

While eligibility, admission procedures, duration, functions of Research Advisory Committee, Research Methodology, thesis submission and valuation of thesis will be the same as the general Ph.D. regulations the following would be the norms and guidelines for split Ph.D. Program.

- (i) The partnering institution in split Ph.D. Program should have signed an academic MoU with Host University
- (ii) The maximum period of research that can be conducted with the partnering institution shall not exceed ONE YEAR. In case the candidate has spent longer periods than one year outside this University, being the place of registration, only one year shall be reckoned with for purposes of record.

- (iii) The expert under whom the candidate proposes to work for the split Ph.D. program shall be suggested by the guide as co-guide and would also be a member of the Research Advisory Committee.
- (iv) The Progress report of work done by the candidate in the external institution shall be submitted to the Controller of Examinations through the guide by the external expert/co-guide once in six months during the entire period of work under the split Ph.D. program
- (v) All financial commitments required for carrying out the research work at the partnering institution shall be borne by the candidate concerned or as per the terms of the MoU.
- (vi) The degree on successful completion would be awarded by the host University only i.e. Sri Ramachandra University with a mention of the name of partnering institution under the split Ph.D. program.

# 28. Integrated Ph.D. Programme:

28.1 Emerging areas of medical, surgical and dental sciences are in need of research qualified manpower in view of strong operational knowledge requirement to bring about innovations in these areas which are directly applicable to Community Health and Patient Care. Hence, notwithstanding the above Ph.D. regulations, in order to encourage postgraduates in Medicine, Surgery and Dentistry (MD/ MS/ MDS) to take up the research specializations, an Integrated Ph.D. Full time programme is evolved with minimum period of FIVE YEARS duration and maximum period of SIX YEARS.

Candidates during the time of admission to MD/MS/MDS courses should excises their option to undergo the **Integrated Ph.D. programme** and file the necessary application for registration within TWO months of their admission to the postgraduate courses.

There shall be a selection process of only Viva-Voce examination by the Ph.D. admission committee along with invited national level experts, which may include those from funding agencies like ICMR. The details of the process would be as stipulated under regulation 4.4.

The first three years curricula would be the same as that of MD/ MS/ MDS Curricula currently approved/ modified from time to time by MCI/DCI. In this sandwich Ph.D. programme, the candidate will take the Part–I Research Methodology examination at the end of the second year of the postgraduate course. They will indicate the broad

field of research during the second year of the postgraduate course and the Dissertation for the MD/MS/MDS postgraduate examination may form a part of their Ph.D. thesis later.

The above Integrated programme may also be made applicable to other candidates undergoing the Master's courses in Non-clinical disciplines (Faculty of Medicine), Pharmacy, Nursing, Biomedical Sciences & Technology and other allied health sciences courses, subject to framing suitable guidelines for such integrated programme for these disciplines and also subject to availability of recognised guides in the respective disciplines at Sri Ramachandra University.

The course work to be undertaken during I semester after provisional registration by all provisionally registered for Ph.D. candidates is as follows:

- (i) Research Methodology and Biostatistics
- (ii) Computer Applications in research
- (iii) CITI Online Research Ethics Education course
- (iv) Elective courses:

A course work connected with the topic of research as Hands on Training programme/workshop Review of Literature-

Relevant documentary evidence of having completed these course work duly certified by the Research Advisory Committee should be submitted to the Controller of Examinations before the conduct of Part – I Research Methodology Examination.

The Part –I Research Methodology Examination shall consist of the following:

Paper	Title of paper	Max marks
I	Research Methodology including Biostatistics and Computer	100
	Applications in Research (theory only)	
II	An advanced paper in the subject concerned including the	100
	involved instrumentation (theory only)	
III	Background paper relating design and conduct of his/her Ph.D.	100
	work.	
	Viva voce	100
	Total marks	400

Passing minimum is 50% of aggregate marks

- 28.2 All Part-I Methodology successful Ph.D. candidates would be entitled to submit their Ph.D. synopsis and thesis on completion of the minimum period prescribed. While the Ph.D. synopsis can be submitted to the Controller of Examinations following the usual guidelines three months prior to thesis submission, the thesis submission is permissible only on completion of FIVE years of the Integrated Ph.D. programme.
- 28.3 Except for the above, the regulations for admission procedures, Research Advisory Committee and their functions, research Methodology, thesis submission and evaluation for the integrated Ph.D. programme will be the same as for the general Ph.D. regulations.

# 28.4 Submission of Thesis before the minimum period prescribed

Notwithstanding anything contained in these regulations regarding the minimum period of research to be put in by candidates before becoming eligible to submit their theses for the degree, it shall be competent for the Board of Research Studies to permit candidates to submit their theses earlier by a period not exceeding six months provided such request for earlier submission from candidates is accompanied by

- (a) the recommendations of the supervisor for relaxation based on the satisfactory completion of the research work for the thesis topic with evidence that the candidates has been working consistently even prior to his provisional registration for the Ph.D. Degree on the topic of his research; and
- (b) Evidence of having completed the required work for the thesis by way of reprints of at least three publications in the topic of Ph.D. research in indexed journals

#### **SYLLABUS**

(Common for all Ph.D. Candidates)

# Part – I Research Methodology Examination

# Paper – I RESEARCH METHODOLOGY INCLUDING BIOSTATISTICS

- 1. Process of selection of research question including prioritization and feasibility, research process, process of writing a research proposal, scientific writing for thesis and research publications.
- 2. Review of literature: what is review of literature, need for review of literature, primary and secondary sources for review, treatise, monographs, patents, current literature methods, abstraction of research papers, major secondary sources, bibliographic databases, web as source of information, information retrieval, information processing, critical evaluation, organization of materials collected and writing of review, methods of writing references and bibliography.
- 3. Scales of measurement: Basic concepts in response scales, types of scales, categorical scales, nominal scales, ordinal scales and interval scales, visual analogue scales, composite scales, Guttman scale, combination scores, likert scale, principles and approaches in questionnaire development.
- 4. Measures of disease frequency and association, prevalence, incidence, crude, specific and adjusted (standardized) rates, relative risk, odds ratio, standardized mortality ratios, attributable risk and interpretation of measures of association.
- 5. Descriptive epidemiological studies: correlational studies, case reports and case series, cross sectional studies, hypothesis formulation from descriptive studies.
- 6. Case control studies: Design and conduct of case control studies, analysis and interpretation of results, bias in case control studies.
- 7. Cohort studies: Types of cohort studies, design and conduct of cohort studies, analysis and interpretation of results, bias in cohort studies.
- 8. Interventional studies: Types of interventional studies, design and conduct of randomized controlled trials, analysis and interpretation of results
- 9. Evaluating role of bias and confounding: Types of bias, control of bias, evaluation of role of bias, nature of confounding, methods of controlling confounding.
- 10. Statistical association and cause effect relationship: Evaluation of the presence of valid statistical association, judgment of a cause-effect relationship.
- 11. Drug discovery and evaluation: Historical approaches in drug discovery, pharmacological approaches of modern medicine, new approaches in drug discovery, pharmacological

- evaluation of acute, sub acute, chronic toxicity studies, pharmacological evaluation methods, and OECD guidelines.
- 12. Presentation and summarization of data: Types of variables, data presentation, tables, charts and diagrams.
- 13. Measures of central tendency and location: Mean, median, mode, position average, and percentile.
- 14. Measures of dispersion: Range, inter-quartile range, mean deviation, standard deviation and coefficient of variation.
- 15. Probability: Probability scale, measurement of probability, laws of probability for independent events, conditional probability, Bayes' theorm.
- 16. Probability distribution: binomial distribution, Poisson distribution, normal distribution, t distribution.
- 17. Sampling: Population, sample, sampling variations and bias, probability sampling methods, concepts in calculation of sample size.
- 18. Evaluating role of chance: Normal distribution, inferential statistics, hypothesis testing, p value, confidence intervals
- 19. Confidence interval for mean, statistical test of significance for difference between two means and more than two means (ANOVA).
- 20. Confidence interval for proportion, statistical test of significance for difference between two proportions and more than two proportions (chi-squared test).
- 21. Correlation, linear regression, multiple regression and logistic regression.
- 22. Non parametric methods: Sign test, Wilcoxon signed-rank test, median test, Mann-Whitney test, Kruskal-Wallis test, Friedman test, Spearman rank correlation coefficient. Advantages, disadvantages and application of non-parametric tests.
- 23. Ethics and biomedical research: General principles on ethical considerations involving human subjects, ethical review procedures, Institutional ethics committee, its organization and functions, general ethical issues. Specific principles for clinical evaluation of drugs / devices / diagnosis / vaccines / herbal remedies, specific principles in epidemiological studies, specific principles in human genetic research, specific principles for research in transplantation including fetal tissue implantation.
- 24. Ethical guidelines for experimental animals: Sources of experimental animals, Lab. animal husbandry and management, anesthesia and euthanasia, laboratory animal ethics, animal ethics committee, its organization and functions, ethical guidelines for use of animals for

scientific research, CPCSEA guidelines, in-vitro system to replace animals, legal provisions for experimentation of animals.

## Reference books:

- 1. Epidemiology in medicine, Charles H. Hennekens and Jules E.Burling.(1987)
- 2. Oxford Text Book of Public Health (5<sup>th</sup> edition), volume 2, Oxford University press.(2011)
- 3. Essentials of Medical Statistics by Belty R. Kirkwood.(2011)
- 4. An Introduction to biostatistics by P.S.S. Sundar Rau.(2006)
- 5. Ethical guidelines for biomedical research on human subjects, ICMR, New Delhi 2006
- 6. Guidelines for care and use of animals in scientific research. Indian National Science Academy, New Delhi 2000.
- 7. Research Methodology, methods and techniques by C.R. Kothari.(2009)
- 8. Basic epidemiology, 2<sup>nd</sup> edition, R Bonita, R Beaglehole and T Kjellstrom (2007)
- 9. Statistical methods in medical research, 4<sup>th</sup> edition, P Armitage, G Berry and JNS Matthews. (2001)
- 10. Biostatistics: A foundation for analysis in health sciences, 9<sup>th</sup> edition, Wayne W Daniel (2008)

#### **Unit: COMPUTER APPLICATIONS IN RESEARCH:**

- 1. Basics of Computers: Evolution of computers, System software, Application software.
- 2. **Using Internet for Research**: Internet, major internet services, www, super tools for better computing, Internet and the society, searching the keyword search engines.
- 3. **Research related softwares**: Data analysis softwares (SPSS, PsiLAB, GRETL and other freeware tools), core computing softwares, developing utility programs for research.
- 4. **Research related tools and utilities**: Research publishing tool (MS Word, Adobe acrobat and others), Graphics tools (MS Excel and other freeware tools), presentation tools (MS Power point and other freeware tools), subject/field specific tools.

#### **References Books**

- 1. Computer fundamentals Pradip K. Singha and Priti Singha (BPB Publication)
- 2. The Internet: A users guide K. L. James (PHI publication)
- 3. Internet Research skill (SAGE publication) Niall O Dochartaigh
- 4. Microsoft office system (PHI publication)

SI. No.	ANNEXURES	No.
1.	Format for Inter Disciplinary Research Proposal	I
2.	Application for recognition as a Guide for Ph.D. Programme	II (a) & (b)
3.	Recognition requirement for co-guides and Institutions of R & D nature, Industries and collaborating Institutions for guiding/registering Ph.D. candidates	III
4.	Functions of the Research Advisory Committee	IV
5.	Format for Six monthly Progress Report to be submitted by Candidates through Guides	V
6.	Model cover and Title page of Ph.D. thesis	VI
7.	Format of declaration certificate by the candidate to be included in the thesis	VII
8.	Format of the certification to be given by the guide	VIII
9.	Format for Adjudication of the Ph.D. thesis by examiners	IX
10.	Declaration for publication of Ph.D. thesis	X
11.	Fee structure	ΧI

# Format for Inter-disciplinary Research Proposal

(This Proforma duly filled in by the candidate should be submitted with the signature of the Guide and Co-guide along with the Ph.D. application for provisional registration)

Full time or part time	:	
Name	:	
Academic Qualification	:	
Age and date of birth	:	
If full time scholar, give fellowship details	:	
If part time scholar, give details of occupation	•	
Organisation details, if employed (part time scholars)	:	

If so, briefly describe (in not more than 50 words) the input from the two disciplines to the proposed area of research for Ph.D.	:	
Details of publications, if any, bearing on inter-disciplinary research, pertaining to the topic. If yes, furnish the details	:	
Comments of the Guide under whom inter-disciplinary research is proposed	:	
Comments of the Co-Guide under whom inter-disciplinary research is proposed	:	
Signature of the Guide		Signature of the Applicant
Signature of the Co-guide Date:		Signature of the Head of the Department

# Sri Ramachandra University

# Application for recognition as a Guide/Co-guide for Ph.D. Programme

1.	Name (In capital letters)	1										
2.	Designation											
3.	Date of Birth & Age											
4.	Contact address with ph	none/mobile										
	e-mail:											
5.	Qualifications (from und	ergraduate de	gree on	ward	ds):							
	Name of degree Specialisation (major)				ollege an niversity				Month passing	& clas	year ss	of
6.	Title of Ph.D. thesis with discipline											
7.	No. of research papers published accredited/ indexed journals (Enclose publications)					Post Ph.D			4			
8.	No. of books publishe (enclose list):	d/invited cha	pters co	ontr	ibuted							
9.	Total teaching experience:		Before Ph.D.:			After Ph.D.:						
10.	Total research experience:		Before Ph.D.:				After Ph.D.:					
11.	Positions held:											
	Name of institution		From					То				
12.	Subject/discipline in propose to guide for F	•										
13.	Whether already reco							utio	n if so g	give	details:	:
	Total No. of candidat					r you	as	Gι	ıide	Co	-guide	
	guide/co-guide in Sri Ramachandra University											

Signature of the Head of Institution (where the applicant is presently working with designation and seal)

Signature of applicant (with seal & date )

# Sri Ramachandra University

# Application for recognition as a Guide/Co-guide for Ph.D. Programme (for those who have qualified for MD/ MS/ M.Ch/ DM/ MDS)

1	Name (In capital letters)	)					
2	Designation						
3	Date of Birth & Age						
4	Contact address with ph	none/mobile					
	e-mail:						
5	Qualifications (from unc						
	Name of degree	Specialisation (major)	College and University	Month a passing c	& year of lass		
6	Title of dissertation for PG degree dissertation with discipline						
7	No. of research paper (Enclose full list of publi	During the last 4 years (enclose re-prints)					
8	No. of books published/ (enclose list):	invited chapters contrib	outed				
9	Total PG teaching expe	rience (enclose details	): Years:	months:			
10	Total research experier	nce (enclose details):	Years:	months:			
11	Positions held:						
	Name of institution		From	То			
12	Subject/discipline in wh for Ph.D.	ich you propose to guid	de	1			
13	Whether already recogr	nized as Ph D quide by	any other institution if s	so, give deta	ils:		
-:-	Total No. of candidates			Guide	Co-guide		
	guide in Sri Ramachandra University						

Signature of the Head of Institution (where the applicant is presently working with designation and seal)

Signature of applicant (with seal & date )

#### **ANNEXURE -III**

# Recognition requirement for Guide/Co-guides and Institutions of R & D nature, Industries and collaborating Institutions for guiding/registering Ph.D. candidates

- (i) Minimum two persons with Ph.D. qualifications in the area(s) of research by the department/institution as approved by the University.
- (ii) Library facilities with adequate books, journals in the area of research literature retrieval facility through CD-ROM/internet facilities.
- (iii) Laboratories with equipments are required for the discipline of Research for which recognition sought.
- (iv) Adequate working space for the research students in terms of laboratories, study rooms, seminar room facilities etc.
- (v) Faculty Research Profile of the Department seeking recognition along with the department/ faculty contributions made in the respective fields.
- (vi) Details of existing infrastructure facilities of the Department/institution.
- (vii) Application to be submitted in the prescribed format Annexure II (a) & (b) for recognition as Co-guide

## **Functions of the Research Advisory Committee**

- 1. There shall be a Research Advisory Committee (guide and two experts) for each research scholar constituted by the Vice-Chancellor based on the recommendations of Dean (Research) drawn from the panel of five members suggested by the guide.
- 2. Where the part time research scholar has a guide from outside his/her institution, the Research Advisory Committee constituted by the Vice-Chancellor shall include also the coguide from the University as a member, apart from the guide and one other member.
- 3. The members of the research advisory committee shall be recognized guide or be eligible to be as a guide for Ph.D. research.
- 4. The Research Advisory Committee shall have a meeting at the University convened soon after provisional registration and constitution of the committee to personally interview the candidate,
- 5. To review the research proposal and finalise the topic of research.
- 6. To guide the candidate to develop the study design and methodology of research; and
- 7. To suggest courses (theory and/or practical) to be undertaken by the candidate during the first year of his/her provisional registration. The courses prescribed together with syllabus shall be forwarded to the Controller of Examinations to set the question papers for the Methodology Examination at the end of the first year of provisional registration. On no account this process shall be passed through correspondence/circulation.
- 8. The Research Advisory Committee shall monitor the research work of the candidate concerned periodically, record his/her progress bi-annually in the format suggested (ANNEXURE-V) and send it to the Controller of Examinations and review the overall research work before final submission of the thesis by the research scholar.
- 9. In the case of research scholars doing inter-disciplinary research, the guide shall nominate a person, who is an expert in the other discipline concerned as well as the co-guide to be the member of the Research Advisory Committee, which shall perform the functions cited under regulations 9.4 to 9.8.
- 10. Any change in the membership of the Advisory Committee shall be effected only on approval by the Vice-Chancellor.
- 11. Research Advisory Committee shall ordinarily stand dissolved once the candidate submits the thesis. However, it shall be available till the end of public viva-voce examination for monitoring and advising candidates for whose thesis examiners have recommended modifications, corrections, etc., to be incorporated in the thesis before the public viva-voce examination.
- 12. \*The course work to be undertaken during I semester after provisional registration by all provisionally registered for Ph.D. candidates is as follows:
  - (i) Research Methodology and Biostatistics
  - (ii) Computer Applications in research

- (iii) CITI Online Research Ethics Education course
- (iv) Elective courses:

A course work connected with the topic of research as Hands on Training programme/workshop Review of Literature-

Relevant documentary evidence of having completed these course work duly certified by the Research Advisory Committee should be submitted to the Controller of Examinations before the conduct of Part – I Research Methodology Examination.

- 13. At the end of the first year after provisional registration and on completion of such course(s) of instruction, there shall be a Research Methodology Examination conducted in the University premises only and every candidate shall be examined by the Research Advisory Committee by written and oral tests to assess his/her skills. The guide may grant an extension period not exceeding three months time, from the due date, to the candidate with the approval of the Controller of Examinations, for appearing for the Research Methodology Examination. Normally the Research Methodology Examination will not be permitted to be carried over beyond a period of three months from the due date. However, application for extension of period to appear for Research Methodology Examination after the expiry of three months may be considered by the Vice-Chancellor on valid grounds and special circumstances, for not exceeding a period of one year.
- 14. The Research Advisory Committee shall prescribe the course work and methodology of research and conduct the Research Methodology Examination. This is applicable to independent research scholars also.

The Part-I Research Methodology Examination shall consist of the following:

Paper	Title of paper			
		marks		
I	Research Methodology including Biostatistics and Computer Applications in Research (theory only)	100		
II	An advanced paper in the subject concerned including the involved instrumentation (theory only)	100		
III	Background paper relating to design and conduct of his/her Ph.D. work	100		
	Viva voce	100		
	Total marks	400		

Passing minimum is 50% of aggregate marks.

- 15. The syllabus for Paper I common for all disciplines will be framed by the standing committee of the Board of Research Studies.
  - The syllabi for Papers II & III will be prescribed by the Research Advisory Committee during its first meeting held for purposes of prescribing the course work, etc. for the candidate and should be forwarded to the Controller of Examinations, immediately after the meeting is over.
- 16. The Guide shall be the Convenor of the Research Methodology Examination.
- 17. A detailed report on the fitness of the candidate to proceed with the research work for the Degree of Doctor of Philosophy (Ph.D.) shall be submitted by the guide/ Convenor to the Controller of Examinations not exceeding fifteen days from the date of the Research Methodology Examination.
- 18. The detailed report submitted by the guide/Convenor duly attested by the other members shall contain the details of procedure followed for the written evaluation, experimental models, orals etc., and the percentage of marks secured by the scholar. The research scholar shall secure a minimum of 50% marks in the aggregate to be fit to proceed with the research work.
- 19. If any research scholar fails to qualify in the Research Methodology Examination, the candidate should undergo the course for a further period of six months. At the end of the said period, he/she shall be examined again by the same Advisory Committee and if found fit, he / she shall be permitted to proceed with the research work. The minimum period of research prescribed for submission of theses shall be extended by 6 more months in such cases.
- 20. A research scholar who does not qualify even at the second attempt shall not be permitted to continue his/her research work and his/her provisional registration shall be cancelled by the Vice-Chancellor without any further reference to the candidate.
- 21. An independent research scholar shall also appear for the Research Methodology Examination conducted by the Research Advisory Committee consisting of three members.
- 22. If a candidate fails to take the Research Methodology Examination at the end of the first year after provisional registration, without any prior approval/permission as prescribed under regulation (12.1) his/her provisional registration shall be cancelled by the Vice-Chancellor without any further reference to the candidate.

# Format for Six monthly Progress Report to be submitted by Candidates (Full time/ part time including Independent research candidates)

- (i) The progress reports shall be submitted by the candidate before the Research Advisory Committee accompanied by a report by the candidate about the work carried out during the period of this report (in about 300 words). The same shall be duly signed by the guide, co-guide (if applicable) and Member(s) of the Research Advisory Committee.
- (ii) One copy is to be retained by the guide, one copy by the candidate and one copy to be submitted to the Controller of Examinations once in six months, immediately after placing before the Research Advisory Committee constituted for the candidate.

**Note:** Failure to submit two consecutive six monthly progress reports will entail the cancellation of registration of the candidate by the Vice-Chancellor on a report made by the guide and /or the Controller of Examination in this behalf.

1.	Particulars about the candi	date	<b>7</b> -						
''									
(a)	Name	:							
(b)	Designation	:							
(c)	Institution where working	:							
(d)	Period of the report	:	From	1			To:		
(e)	Date of provisional registration with University reference	:							
2.	Registration Details:								
	Category of registration	:	PT		FT	Internal		External	
(b)	Has the provisional registration been confirmed	:	Yes			No			
(c)	If yes, give University approval reference	:							

3.	Particulars of the Guide						
(2)	Name	:					
(a)	Name						
(b)	Designation	:					
(c)	Institution where employed	:					
4.	Particulars of the Co-Guide	)					
(a)	Name	:					
(b)	Designation	:					
(c)	Institution where employed	:					
5.	Particulars of the RAC Men	ber	<u>.</u>				
(a)	Name	:					
(b)	Designation	:					
(c)	Institution where employed	:					
6.	. Name of DepartmentVInstitution where research is conducted						
7.	Area of work and tentative	title	of the proposed thesis				
8.	Details of progress of research:	:					
( )							
(a)	whether the candidate's report in quadruplicate is enclosed	:					
(b)	Whether papers have been	:					
	published (If yes, furnish details)						
(c)	Whether seminars/	:					
	conferences attended						
(d)	whether completed the prescribed course work If yes, how many	:					
9.	. Has the Annual Research fee been paid for the year(s)						

	yes, now many		
9.	Has the Annual Resear	ch fee been paid for the ye	ear(s)
Date	:		Signature of candidate
Place	e:		

10. Remarks of the Guide:	(√)		
(a) Attendance:	Satisfactory	Not satisfactory	
(b) Progress:	Satisfactory	Not satisfactory	
(c) Expected time of completion of thesis:	Satisfactory	Not satisfactory	
12. Whether the Guide agrees	with the schola	r's report: (if yes or no please	e give reasons)
13. Whether the co-guide agree	es with the scho	olar's report: (If yes or no ple	ease give reasons)
I / we hereby certify that a carresearch and he/she may be pe	-	-	nd shown progress in his/he
Date:		Siç	gnature of the Guide
Place:			with Seal
l anna viith tha ab are are	anta af tha Occid		
I agree with the above remain Date:	arks of the Guid		gnature of the Co-guide
Place:		Oil	with Seal
I agree with the above rema	arks of the Guid	e& Co-guide	
Date:		Sig	gnature of the RAC Member
Place:			with Seal
I agree with the above rema	arks of the Guid	e& Co-guide	
Date:		Sic	anature of the RAC Member

Place:

with Seal

# MODEL FOR COVER AND TITLE PAGE OF THE Ph.D. THESIS

## Title of the thesis

Thesis submitted for the degree of Doctor of Philosophy (Ph.D.)

by

(Name of the candidate)

Name of the Department



Porur, Chennai – 600116, India

Month and year

# Format of declaration certificate by the candidate to be included in the Thesis (in all copies)

I declare that the thesis entitled					
submitted by me for the degree of Do	octor of Philosophy (P	h.D.) is the r	ecord of re	search work car	ried out
by me during the period from	to			under the guid	ance of
		and	the	co-guidance	of
(w	herever applicable) a	nd has not	formed the	basis for the a	ward of
any degree, diploma associateship,	fellowship,; titles in	this or any	other Uni	versity or other	similar
institution of higher learning.					
Date:	S	ignature of th	ne candidat	e	
Place		(Na	me)		

# **ANNEXURE - VIII**

# Format of the certification to be given by the Guide/Co-guide (in all copies)

I certify that the thesis entitled	
submitted for the Degree of Doctor of Philosophy b	y Mr/Ms
is the record of research work carried out by him/he	er during the period from to
under my guidance and supervision and that this re	esearch work has not formed the basis for the award o
any degree, diploma, associateship, fellowship o	or other similar titles in this University or any othe
University or institution.	
Date:	Signature of the Guide
Place:	With Seal
Date:	Signature of the Co-guide
Place:	With Seal
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# Format for report on adjudication of Ph.D.Thesis by examiners

Address:

_						
1.	Name	of the candidate	:			
			•			
2.	2. Title of the thesis					
			:			
3.	Discip	line and subject				
			:			
4.	Name	and address of the Examiner				
			:			
5.	Recon	nmendation of the Examiner (please				
		out whichever are not applicable)	:			
		- at the applicable)				
or	(b)	Thesis is highly commended.				
or	(c)	Thesis is commended				
or	(d)		Degree may be awarded subject to the candidate's			
		examination.	n i	to my queries during the public viva-voce		
or	(e)	Thesis is commenced and the Degr	gree may be awarded subject to the condition that the			
				by me are carried out in the thesis and duly		
or		certified by the Guide-Convenor bef	ore	the public viva-voce examination.		
	(f)	Thesis needs to be resubmitted after	er re	evision for evaluation.		
	,,					
	(g)	Thesis is not commended and the D	eg	ree may not be awarded.		
6.	Detaile	ed report on the thesis (to be				
	enclos	ed)	:			
7.		questions to be asked at the public				
	viva voce examination (to be enclosed)					
		(12 27 27 27 27 27 27 27 27 27 27 27 27 27				
Date:				Signature of the Examiner		
Place :				With Designation		

# SRI RAMACHANDRA UNIVERSITY

# **DECLARATION BY THE CANDIDATE**

1.		Pn.D. research scholar in the
		College hereby declare that
the		thesis
titled"		" is a
	al work done by m	e under the guidance of
Dr./Mr./Ms	•	in the Department
of	under the faculty of _	•
		during the period from
to .	, , , , , , , , , , , , , , , , , , , ,	
2. I further declare that of	only after obtaining permiss	sion of the Publication Oversight
		ication of the said thesis either in
	•	ation will include only the names of
•	e actually contributed to the s	-
marviadais who has / hav	to dotadily contributed to the c	ald tricold work.
3. Lagree to publish the sa	aid thesis within a period of o	one year from the date of qualifying
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Ramachandra Oniversity	•	
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the University.		
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6. Taiso understand and ag	ree that this thesis made by i	me is final and irrevocable.
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Date:	Course	•

# **Sri Ramachandra University** Porur, Chennai – 600 116

# FEE STRUCTURE FOR Ph.D. PROGRAMME with effect from April 2016:-

SI. No.	Particulars	Fee (in Rs.)
1.	Application form for admission	5,000/-
2.	Provisional Registration	25,000/-
3.	Annual Research	25,000/-
4.	Research Methodology Examination	15,000/-
5.	Application form for Examination	300/-
6.	Statement of Marks	300/-
7.	Submission of Synopsis	25,000/-
8.	Submission of Thesis including Public Viva Voce Examination	75,000/-
9.	Late submission of Thesis:	
	For I Extension (6 months)	3,000/-
	II Extension (6 months)	5,000/-
	III Extension (6 months)	7,000/-
10.	For approval of Change of Guide	4,000/-
11.	For approval of Change of Co-Guide	4,000/-