

ORDINANCE FOR Ph.D. PROGRAMME
ARTS, AGRICULTURE, COMMERCE, EDUCATION, LAW & SCIENCE
FACULTIES (2022 onwards)

Clause	PhD Ordinance
1.1	These Ordinances shall be called "The Bundelkhand University, Jhansi, Doctor of Philosophy (Ph.D.) Degree Ordinance, 2022."
1.2	This Ordinance shall come into force from the Academic Session 2022-2023
2.1	At any point of time, total number of Ph.D. Seats shall not exceed 08 for a Professor, 06 for an Associate Professor and 04 for an Assistant Professor, approved as Supervisor.
2.2	Based on 2.1 and number of Ph.D. Scholars already registered for Ph.D., with all supervisors, a pre-determined and manageable number of feasible vacancies available for new Ph.D. candidates shall be counted on annual basis and notified/communicated by the Registrar. Updated status of vacancies shall be published on University website as soon as any vacancy arises after the submission of thesis under any supervisor, on a regular basis.
2.3	The subject wise number of seats for Ph.D. shall be decided in advance and will be displayed on the University website and also through advertisement. The University shall widely advertise the number of available seats for Ph.D. studies and will also grant admission on regular basis.
2.4	These vacant Ph.D seats shall be distributed as per Reservation Policy of the State-Vertical and Horizontal -categories into unreserved, reserved for OBC (Non - Creamy Layer) and reserved for SC/ST and so classified for each subject.
2.5	The procedure for admission, evaluation including award of Degree concerning pursuit of Ph.D. in multi-departmental inter-disciplinary Institutes of the University, duly established under Section 44, shall be same as specified for regular teaching departments.
2.6	There shall be no additional Ph.D. seats in Multi-departmental and inter-disciplinary institutes unless regular Full-time teachers are appointed in the institutes themselves. For teachers otherwise associated with these Institutes, the number of Ph.D. students shall have to be adjusted against the seats for the associated teachers of these institutes in their parent departments with no more than two for a Professor and one each for Associate Professor and Assistant Professor respectively.
3.1 (a)	<p>A candidate pursuing research for a Doctor of Philosophy Degree of the University must hold a Post - Graduate Degree in the concerned subject with atleast 55% marks in aggregate or its equivalent CGPA (where grading system is followed) and must fulfill other conditions of eligibility (good academic record, and other stipulations, if any) prescribed in the Statutes for the recruitment to the post of Assistant Professor.</p> <p><i>Provided that in exceptional cases a candidate holding a Master's degree, in an allied subject relevant to his/ her Ph.D. topic, may also be considered for admission to Ph.D. Degree by the Research Degree Committee (RDC) concerned.</i></p> <p><i>Provided further that the students appearing for final year or final semester of their postgraduate degree examination will also be eligible to be considered for the admission process subject to the fulfillment of minimum eligibility criteria by the candidate at the time of admission in course work</i></p>
3.1 (b)	Relaxation in Minimum Qualifying Marks : A relaxation of 5% of marks from 55% to 50%, or an equivalent relaxation of grade will be allowed for those who belong to SC/ST/OBC/Differently abled and other categories of candidates as per the prevailing reservation laws of the State of Uttar Pradesh. The eligibility marks of 55% (or an equivalent grade in a point scale wherever grading system is followed) and the relaxation of 5% to the

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	categories mentioned above are permissible based only on the qualifying marks without including the grace mark.
3.1 (c)	Reservation : Reservation in seats for applicants of reserved categories shall be provided as per the reservation laws of the State of Uttar Pradesh applicable in admissions from time to time.
3.2	In Faculty of Ayurveda (Institute of Ayurveda and Alternate Medicine), however, a candidate having M.D. (Ayurveda) degree with 55% marks in the subject concerned or equivalent degree of another University recognized by this University shall be eligible for admission to the Ph.D. Programme in Ayurveda.
3.3	In Faculty of Medicine, a candidate having M.D./ M.S./M.D.S./M.Sc. and equivalent degrees recognized by MCI in the subject concerned with 55% marks, shall be eligible for admission to the Ph.D. Programme in Medical Sciences.
3.4	Notwithstanding anything contained in abovementioned rules, the eligibility criteria/ guidelines prescribed and/or issued by statutory regulating authorities such as UGC and/or All India Council for Technical Education (AICTE), BCI, PCI, MCI, NCTE etc from time to time shall also be applicable for the purpose of CET.
	ADMISSION PROCEDURE:
4	The University shall admit the candidates in Ph.D course by a two stage process: the Entrance Test and Interview /Viva-voce. The candidates shall be called for interview on the basis of their performance in the written test. The final merit list shall be based on 'academic score plus performance at the interview/viva-voce' only.(Annexure-I).
4.1.1	The University or its constituent/affiliated/ associated colleges/Institutes shall not conduct Ph.D. Programmes through distance/open education mode.
4.1.2	The University shall admit Ph.D. students only through an entrance test named as " Common Entrance Test for Ph.D. "(CET- Ph.D.).
4.1.3	Subject to the provisions contained in clause (8) of section 7 of the Uttar Pradesh State Universities Act, 1973 a " Common Entrance Test for Ph.D. "(Hereinafter referred to as the CET) shall be conducted in specified subjects/disciplines by the University.
4.1.4	The university shall publish thrice a public notification through its website and in at least three issues of the daily newspapers already earmarked.
4.1.5	The said advertisement will contain the salient features necessary for the purpose, i.e. eligibility criteria, subjects, fees and mode of its payment, reservation, syllabus, scheme, center, submission of application, other relevant instruction and anticipated date of the declaration of results thereof.
4.1.6	A candidate for admission to the Ph.D. degree shall apply to the University for CET on a prescribed form.
4.1.7	The minimum qualifying marks in Entrance Test shall be 50%. The syllabus of the Entrance Test shall consist of 50% of research methodology and 50% shall be on the subject specific. Both the question papers shall contain multiple choice objective type questions. A relaxation of 05% in the qualifying marks shall be granted to SC/ST/ Differently abled candidates.
4.1.8	The Test fees including Application Form prescribed for different categories for CET shall be as determined by the university. Based on the marks obtained in the entrance test merit list shall be prepared and the result of only successful candidates will be displayed on the website of the university.
4.1.9	The following categories (as in 4.1.9(a,b, c &d) of candidates shall be exempted from the CET for admission to Ph.D. programme.
4.1.9 (a)	Regular teachers of the University, its constituent college or a college affiliated/associated to the University, who have completed their probation period successfully.
4.1.9 (b)	The SFS teacher of University Campus who have completed 5 years of service with at least one research publication



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4.1.9 (c)	International students (including NRIs) shall be subject to the general rules framed by the Government of India from time to time and as applicable to the University with regard to the admission, fees, etc.
4.1.9 (d)	All candidates who qualified UGC-NET (including JRF)/ UGC-CSIR- NET (including JRF)/SLET/GATE/Teacher Fellowship holder/ICAR NET (including JRF) shall also be exempted from the Entrance Test.
4.1.10	A candidate shall ordinarily be permitted to work for the Ph.D. degree in the subject in which he /she holds Master's degree: <i>Provided</i> that such research work leading to Ph.D. degree in allied subjects in the same or other faculty may also be allowed if the Research Degree Committee concerned on recommendation of the concerned Dean of the faculty or the Director of Institute and the Head of Department is satisfied that the candidate possesses the requisite qualification/capabilities to take up the proposed work in multi-disciplinary areas.
4.2	Interview/Viva-Voce: Those who have qualified CET Conducted by the University or are exempted from CET shall be called for interview/viva-voce. The candidates shall be required to discuss their research interest /area through a presentation before a duly constituted Research Degree Committee (hereinafter referred to as the RDC which shall be separate for each subject and shall consist of : (a) The Vice Chancellor or his Nominee as chairman. (b) The Dean of the Faculty. (c) Convener of the concerned subject and. (d) Two experts nominated, for a term of for three years, by the Vice Chancellor in consultation with the Conveners concerned. The Vice Chancellor may invite a person (s) of repute as co-opted member (s) of the interview Committee.
4.2.1	At the time of interview/viva-voce, the Ph.D. interview committee shall consider the following aspects, via Subject Knowledge and Research Aptitude.
4.2.1 (a)	The Candidate possesses the competence for the proposed research;
4.2.1 (b)	The research work can suitably be undertaken at the University/Institute /College.
4.2.1 (c)	The proposed area of research can contribute to new/additional knowledge.
5	The Ph. D. Course work and its Evaluation:
5.1	Each student shall pay a sum of Rs. 25,000/- (Rupees Twenty Five Thousand Only) as a fee for each semester of Course Work, which may be revised by the University from time to time after taking approval of Finance Committee.
5.2	All admitted candidates shall undergo a Ph.D. Course Work for a minimum period of Twelve months consisting of two semesters as prescribed by the University.
5.3	<u>1.</u> The Course Work shall be conducted at the University Centre only as approved by the university. <u>2.</u> The frame work and outline of Ph.D. course work shall be completed in two semesters.
5.4	The Coordinator/s of Course Work Centre shall prepare the time table, for the course work, teaching, continuous evaluation and internal tests and shall conduct the same under the overall supervision of a Professor nominated for this purpose by the Vice Chancellor. The coursework shall be conducted in hybrid mode(Online & Offline)
5.5	Minimum attendance required to become eligible to appear in the qualifying examination for each paper shall be 75% of all class lectures (separately in theory and practical). In case a student is short of attendance due to illness, participation in sports, extra-curricular activities,

	<p>etc., the following rules may be applied:-</p> <p>(a) Shortage up to 5% may be condoned by the Co-coordinator/s of Course Work/Dean.</p> <p>(b) A shortage up to a maximum of 10% may be condoned by the Vice Chancellor on the specific recommendations of the Coordinator of Course Work/Dean. Minimum 65% of attendance is required even after such condonation.</p> <p>In case a student is not able to fulfil the minimum attendance requirement of the course work while enrolling in it for the first time, he/she shall be permitted to complete the shortage of attendance by extra classes or enrolling in the immediately next course work programme after that no further chance shall be given to such students for completion of course work attendance.</p>
5.6	The University shall conduct a Semester End examination based on the syllabus of course work. The passing marks in the Course Work (including internal assessment based on Multiple Choice Objective Type Questions (MCOT)) shall be 55%.
5.7	If a candidate fails to qualify the Ph.D. Course Work examination in first attempt, he/she will be given only one additional chance to pass the Course Work examination
5.8	During the coursework of 2nd semester the students be allowed to interact with Expert and Supervisor for preparation of
5.9	Only the predetermined number of students shall be admitted to Ph.D. programme.
5.10	While granting admission to candidates, the University will pay due attention to the State Reservation Policy.
5.11	A candidate may be allowed to pursue his/her research work at one of the Government aided affiliated/associated/constituent colleges in the regular departments having PG course with 10 years of standing or at already approved Research Centers of the university as recognized by the process enumerated in 3.5 and 8.1 and scores obtained as mentioned in Appendix 2.
6.0	Duties & power of Research Degree Committee(RDC)
6.1	<p>The synopsis shall be placed before a Research Degree Committee (RDC), which shall be separate for each subject and shall consist of:-</p> <ol style="list-style-type: none"> 1. The Vice Chancellor or his nominee as Chairman, 2. The Dean of the faculty. 3. Convener of the concerned subject and 4. Two experts nominated, for three years, by the Vice Chancellor. <p>The Vice Chancellor may also invite any person(s) of repute to act as a member(s) of the Committee.</p>
6.2	<p>RDC shall perform the following functions:</p> <p>(i) Examine the summary of the proposed Ph.D. work for provisional registration of a candidate and provide its recommendation. The committee shall satisfy itself that the proposed topic is one on which the Ph.D. work can profitably be pursued under the guidance of the proposed supervisor(s), that the candidate possesses the requisite qualifications and that the adequate facilities and equipments for the work do exist at the proposed place of work.</p> <p>(ii) The RDC of a subject will meet at least twice in each academic session at regular intervals (March and September).</p> <p>(iii) Half of the members of the RDC shall form the quorum for the meeting. Where presence of one external expert and convener of BOS are essential in the meeting.</p> <p>(iv) The minutes of the RDC meeting shall be reported to the next meeting of the Academic</p>

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	<p>Council for approval. The implementation of the recommendations of RDC shall come into force after Vice Chancellor's anticipatory approval on behalf of the Academic Council.</p> <p>(v) If Convener is unable to attend the meeting, the senior most member present in the meeting shall act as the convener.</p> <p>(vi) In case of change in topic (major/minor) or modification of Synopsis, the decision of the RDC shall be communicated to the concerned student within 15 days after the RDC meeting.</p> <p>(viii) In case of complaints against any supervisor for not adhering to ethical practices, the Vice Chancellor may constitute a fact finding committee and if the supervisor is found guilty, he/she shall be derecognized as supervisor for five years by the RDC.</p>
6.3	The Research Degree Committee (RDC) shall be arranged for an assessment of the synopsis which may include Presentations, or other modes of appraisal.
6.4	The candidates, who have successfully completed their course work, shall be required to be present before the RDC for presentation of synopsis. The supervisors may also attend the RDC meeting. The committee shall satisfy itself that topic/synopsis submitted is such on which research work can properly be pursued under the guidance of a supervisor and that the candidate possesses the requisite qualifications and the adequate facilities and equipment for work exist at the department/ Research Centre or Institution concerned.
6.5	The RDC will recommend the synopsis for approval to the Academic Council through the Dean concerned. The Vice Chancellor may accord advance in anticipation of the approval of the same by the Academic Council.
6.6	In case, the RDC finds that the synopsis is not up to the mark, it shall make specific suggestions for improving the synopsis. The candidate after making the necessary improvement shall re submit his/her synopsis for approval. The revised synopsis shall have to be submitted within 45 days from the date of the RDC Meeting. Such revised synopsis be sent to the RDC members by circulation for recommendation. If RDC members are satisfied, it shall be reported to the Academic Council through the Dean concerned. The Vice Chancellor may accord approval on behalf of Academic Council in anticipation.
6.6	In case, the synopsis is rejected, the candidate may re-submit the revised synopsis within two months to be placed before the next meeting of the RDC after which no further chance will be given after this submission.
7.0	Research Advisory Committee and its functions.
7.1	<p>There shall be a Research Advisory Committee (hereinafter referred to as the RAC) and shall consist of:</p> <p>(a) The Dean of the Faculty.</p> <p>(b) Convener of the Concerned Subject.</p> <p>(c) The Research Supervisor of the scholar.</p> <p>(d) Head/Coordinator of the concerned Department.</p> <p>The committee shall have the following responsibilities :</p> <p>(i) To review the research proposal and suggest the topic of research.</p> <p>(ii) To guide the research scholar to develop the study design and methodology of research and identify the course (s) that he/she may have to do.</p> <p>(iii) To periodically review and assist in the progress of the research work of the research scholar.</p>
7.2(a)	A research scholar shall appear before the RAC once in six months to make a presentation of

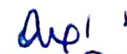
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	the progress of his/her work for evaluation and further
7.2 (b)	In case the progress of the research scholar is unsatisfactory, the RAC shall record the reasons for the same and suggest corrective measures. If the research scholar fails to implement these corrective measures, the RAC may recommend to the co-ordinator Research with specific reasons for cancellation of the registration of the research scholar.
8.0	Ph.D. Supervisor/ Ph.D. Guide
8.1	The University shall lay down and decide on annual basis, a predetermined and manageable number of Ph.D. students depending on the number of the available eligible Faculty Supervisors. A Supervisor shall not exceed the number of scholars mentioned in ordinance 2.1:
8.2	Regular whole time teachers of the University or its affiliated/associated/constituent colleges in the subject concerned holding Ph.D. degree, with:
8.3 (a)	At least Three years of Post graduate teaching experience or Five years of under graduate teaching experience. A Professor with at least five research publications in refereed journals, an associate/assistant professor with at least two research publications in refereed journals may be recognized as research supervisors. Provided that in areas/disciplines where there is no or only limited number of refereed journals, the institution may relax the above condition for recognition of a person as a research supervisor with reasons recorded in writing.
8.3 (b)	at least five years to the credit of post Ph.D. experience as Research Scientist in a research organization recognized as such by the University Grants Commission, subject to the condition that number of registered scholars shall not exceed four for a Professor level Scientist, three for Associate Professor level Scientist and two for Assistant Professor level Scientist with at least two research papers published in referred journals and periodicals to their credit. OR at least 03 years of Post Graduate teaching experience or at least 05 years of Under Graduate teaching experience with at least two research papers published in referred journals and periodicals to their credit. OR Teachers of the Constituent Medical College having 5 years of PG teaching experience with two research papers published in referred journals to their credit. OR The whole-time teachers of university teaching in post graduate departments established under Self Financing Scheme (here in after referred ad SFS) who are already approved Ph.D degree supervisor, shall continue to be the research supervisor subject to the provisions mentioned above. Provided that all such departments are approved as Research Centers (based on the research facilities) by the concerned RDC. Provided further that all such departments should be offering Postgraduate Degree in the respective discipline. In special circumstances, if RDC deems it fit, it may appoint supervisors amongst the whole-time teachers in the Departments/Centers under Self Financing Scheme of B.U. campus/recognized Research Centres. In such cases the following must be observed strictly,

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	<p>in addition to above:</p> <ol style="list-style-type: none"> he/she holds Ph.D. degree with at least three years of Post Graduate teaching experience. or five years of Under Graduate teaching experience The concerned teacher must have published, two research papers or articles as first author, in National/International journal of high impact factor/refereed journal. <p style="text-align: center;">and/or</p> <ol style="list-style-type: none"> must have received grants from National and International funding agencies as Principal Investigator for a period of not less than three years <p><i>Provided</i> also that a retired teacher of the university or its affiliated/associated/constituent colleges, may be permitted to remain as supervisor of his/her Ph.D. student during the remaining tenure of Ph.D. studentship of the student(s) already registered with him/her. If the research scholar is unable to submit the thesis within the regular studentship period, the change of supervisor may be considered as per provisions.</p>
9.0	Allotment of Supervisor
9.1	<p>The allocation of the supervisor, for a selected students shall be decided by the RDC in a formal manner depending on the number of student per faculty member, the available specialization among the faculty supervisors, and the research interest of the student as indicated during interview by the student. The allocation of supervisor shall not be left to the individual student or teacher.</p> <p>Ordinarily, a Research Supervisor may not be permitted for intake of more than two research scholars in one academic session</p>
9.2 (a)	The Vice Chancellor in consultation with the Dean of the Faculty and Convener of the subject shall approve a list of qualified supervisors in accordance with the aforesaid ordinances and may add or delete names accordingly.
9.2(b)	<p>A supervisor shall not be allowed to supervise a candidate who is his/her relative whether by blood or by marriage,</p> <p>Explanation- In this ordinance "relative" means the relations provided in the Explanation to Section 20 of the U.P. State Universities Act.,1973.</p>
9.3	<p>On recommendation from the RDC through the Dean of the faculty, the Vice-chancellor may allow a candidate to have co-supervisor for his/her thesis from an allied Department or Institution recognized by the University for this purpose, if the research is of an inter-disciplinary nature. The Supervisor shall be from the Department where the candidate is registered:</p> <p><i>provided</i> that if a Supervisor is not available in the Department in inter-disciplinary area, RDC may appoint Supervisor from the other concerned department of the University. The eligibility of Co supervisor is similar to Supervisor</p>
9.4	<p>No change of supervisor shall ordinarily be allowed, but in special cases, where the Head of the Department/Convener/ Dean is satisfied that the research work of a scholar will suffer-</p> <ol style="list-style-type: none"> on account of migration, retirement, long leave, or for any other reason the supervisor may not be available to guide the scholar, or as the supervisor is not willing to, or not in a position to supervise a scholar, due to existence of extra ordinary situations necessitating such a change. <p>In such cases, the RDC may recommend a change of supervisor to the Vice Chancellor</p>




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	through the Dean of faculty who may allow change of the supervisor. In case the new supervisor/co-supervisor has full quota of registered candidates, he/she shall be allowed to guide such additional number of students (Not more than three for Professor, two for Associate Professor, and one for Assistant Professor). Such additional students shall be adjusted against the seats of respective supervisors falling vacant in the future.
9.5	The RDC, at its discretion may also decide whether change of supervisor will require fresh registration of the scholar.
9.6	A person, who is registered for a Ph.D. degree shall not be permitted to act as a supervisor in any subject of the University.
9.7	In case of relocation of a Ph.D. woman scholar due to marriage or otherwise, the research data shall be allowed to be transferred to the University to which scholar intends to relocate provided all the other conditions are followed and research work does not pertain to the project secured by the parent institution /supervisor from any funding agency. The scholar will however give due credit to the parent guide and the institution for the part of research already done.
10.0	General rules related to registration
10.1	The teaching Department of an affiliated/constituent college may seek recognition as an approved centre to facilitate research leading to Ph.D. degree at its premises. Such applications shall be notified by the University and will be considered only for further consideration if it satisfies all the following minimum requirements: 1. At least two faculty members having Ph.D. in the Department or one full fledged Professor or Associate Professor as full time faculty on the date of consideration/renewal actively engaged in research (with at least five publications in peer reviewed/reputed National/ International Journals) in last five years. The affiliated/constituent college seeking status as a research centre must have a full time Principal at the time of application, who shall be Ex officio in-charge of the Research Centre, if approved. On preliminary scrutiny of the applications received by a committee appointed by the University for the purpose for assessing the application for such centre, the matter shall be referred to Vice Chancellor for appointing an inspection team for ascertaining the ground situation. The inspection report shall include videography of the infrastructural facilities including the laboratories, computational facilities, library and software details, etc. Such inspection report shall be evaluated by appropriate authority such as Panel/Board of Inspection or Academic Council before granting the approval by Vice Chancellor. 3. Such centers once recognized shall be approved only for three years. The suitability shall be assessed every year on the lines provided as above. In case, if they do not satisfy the infrastructural and academic requirements, no further admission of Ph.D. student shall be permitted at the centre for at least next three years, after which a fresh application may be entertained for grant of approval of the Research Centre.
10.2	A candidate registered as per 6.11 for the Ph.D. Degree shall be required to pursue his/her research at the Head quarters of the University/Research Centre under the supervisor and on the subject approved for not less than thirty months excluding the six months period of Course Work commencing from the date of approval by RDC and must put in at least 06 months attendance at the Research Centre concerned after the completion of the Course Work.
10.3	Continuation of the registration of candidate in the Ph.D. programme shall depend on his/her satisfactory progress and good conduct. The University reserves the right to cancel the registration of any candidate in the event of his/her conduct and progress being found

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otherwise as stated below:

CANCELLATION OF STUDENTSHIP

The PhD studentship is liable to be cancelled for any of the following reasons:

- i. Giving false information at the time of application/admission.
- ii. Not conforming to the regulations of the programme.
- iii. Failure in coursework requirement.
- iv. Failure in Comprehensive Examination.
- v. Consistent lack of progress in research.
- vi. Violation of discipline and conduct rules of the University/College.
- vii. Not submitting a thesis within the stipulated period.
- viii. Not enrolling for a semester within stipulated dates.
- ix. Remaining absent for more than 6 (six) weeks in a semester, without sanctioned leave as prescribed in 8.4 (b).

10.4

The candidate shall be required to submit a progress report every six months to the University through Supervisor.

10.5(a)

A candidate registered for the Ph.D. Degree shall be required to pursue his/her research at the Head-quarters of the University/College under the supervisor and on the subject approved for not less than 30 months excluding the period of Course Work commencing from the date of approval of Topic by RDC and must put in at least 06 months attendance in the department concerned after the completion of the course work. Maximum period for Ph.D. Programme is six years. Women candidates and persons with more than 40% disability may be allowed a relaxation of two years for Ph.D. in the maximum duration.

Provided that the Vice Chancellor, on the recommendation of the Supervisor/Convener/, the Head of the Department, and the Dean, grant permission to candidate to reside outside for purpose of collection of research material for his/her thesis or doing experimental research work for a total period of not more than one year provided that such exemption shall not be granted in the first six months.

Provided further that the Vice Chancellor on the recommendation of the Supervisor/Convener/, the Head of the Department, and the Dean, may allow a candidate to work at such centers of research within area of its jurisdiction or such research centers of repute outside its jurisdiction with which a Memorandum of Understanding (MoU) has been signed by the University for this purpose and as may be approved by the Academic Council in this regard in which case the candidate can have a co-supervisor who shall be not below the rank of accomplished Scientist of equivalent rank from the research centre concerned.

10.5(b)

LEAVE RULES for REGISTERED CANDIDATES

Ordinary Leave

A fulltime PhD student is eligible for 30 days leave for every completed year (calculated in terms of two consecutive semesters, from the time of his/her joining the programme) Sundays or holidays during the leave period are counted towards leave, except for prefixed or suffixed holidays. Of the 30 days leave, a maximum of 15 days of leave is permitted in a semester. However, a maximum of 5 days of such leave is allowed to avail at a stretch if student having any teaching assignment.

However, a student can accumulate leave, and avail a maximum of 30 days' leave at a time in a year. The maximum number of carried over leave, from one completed year to another, is 15 days. Head of the Department/Convenor may sanction leave on recommendation of the Supervisor.

Maternity/Paternity Leave

Women candidates may be provided maternity / child case leave once in the entire duration of Ph.D. for upto 240 days.

The Convener/Head of the Department/Centre sanctions maternity/paternity leave on recommendation of the Supervisor and submission of a certificate from Senior Medical Officer.

Academic leave

Academic leave is permitted on the following grounds:

To attend conferences / seminars / workshops / trainings / short-term courses. A maximum of 15 days of leave is permissible in a calendar year.

A maximum of 30 days of leave in a calendar year is permissible for field trips such as data collection, survey work, etc. The Convenor/Head of the Department/Centre sanctions academic leave on recommendation of the Supervisor.

Academic leave exceeding 30 days but up to a maximum of 60 days in a calendar year is approved by the Vice Chancellor on recommendation of the Supervisor and the Convener/Head of the Department/Centre. Academic leave of more than 60 days but up to a maximum of 12 months is also permissible to carry out part of the research in another institute/R&D Lab/industry in India or abroad. For sanction of such a leave, a letter of consent from the host institute is required. This leave is permissible only after the student has passed the Course Work and has done part of the research work at University.

On recommendations of the Supervisor, Vice Chancellor/the Chairman, RDC approves such an academic leave.

Such cases are also to be reported to the Academic Council. A student granted academic leave for one or more semesters, pays prescribed fees in every semester. If a registration date falls during the period of academic leave, a student completes the registration procedures at the expiry of his/her academic leave.

10.5(c) These Leaves shall not be counted towards minimum 06 months required for the attendance after the completion of Course work.

10.5(d) **Fees for Scholars**
1. The coursework fees Rs. 25000/- Rs Twenty Five Thousand only for all category students in each semester
2. After clearing the coursework exam, candidates are required to submit the

	<p>registration fees. For Science & Agriculture Faculty candidates, the registration fees of Rs. 5850/- Rs Five Thousand Eight hundred fifty only and for Arts, Commerce, Education & Law Faculty candidates, the registration fees will be Rs. 4350/- Rs Four Thousand Three hundred Fifty only</p> <p>3. After the submission of registration fees, the candidates are required to submit Rs. 1000 per month (minimum Rs. 30000/- Rs Thirty Thousand only) and maximum Rs 1000/- to the Research Centre monthly fees. The minimum duration of PhD Programme is 30 month from date of Registration in RDC</p> <p>4. PhD. thesis is submitted only in the University Research Cell after the completion of Research work. In order to submit the thesis all categories (UR, OBC & SC) of candidates are required to submit Rs. 30000/- Rs Thirty Thousand only.</p> <p>Above fees may be revised by the University from time to time after taking approval of Finance Committee.</p>
10.5(e)	In special circumstances, a candidate may, not later than two year from the date on which approval was granted to him, modify the scheme of the topic with the approval of the Vice Chancellor on the recommendation of the Supervisor, the Head of the Department /Convener and the Dean. In case of major modifications or Topic change the scholar will be treated as a fresh case and shall not be allowed to submit the thesis before three years
10.5(f)	<p>In case, a candidate fails to submit his/her thesis within four Academic years from the date of approval of his/her synopsis by the RDC he/she shall cease to be a <i>bona fide</i> student of the University and shall not be entitled to the rights and facilities extended to a regular students.</p> <p><i>Provided that such a candidate may, under special circumstances, be permitted by the Vice Chancellor, on collective recommendations of the Supervisor, Convener/ the Head of Department and the Dean of the Faculty concerned, to submit his/her thesis within a maximum period of Six years including the four years period of his/her studentship.</i></p>
10.6	A candidate submitting his/her thesis after the expiry of four years period shall have to pay an additional fee of Rs. Five Thousand only to the University per year.
10.7	The registration of the candidate who does not submit his/her thesis within prescribed period (i.e. Six years) from the date of his/her RDC approval shall be deemed to be cancelled automatically. A Re registration with different title & synopsis shall be permitted on the recommendation of Supervisor, convener & Dean. Registration shall have to submit the thesis in three calendar years. After this duration the registration will be cancelled automatically and no further extension will be given
10.8	Prior to submission of the thesis, the student shall make a pre-Ph.D. presentation before the RAC that will be open to all faculty members and research students, for getting feedback and comments, which may be suitably incorporated into the draft thesis. The feedback, suggestions and comments obtained in the Pre-PhD of Candidate and to be given by the RAC
10.9	The research scholar shall publish at least two research paper in refereed journal (UGC Care listed/Peer reviewed) and make two paper presentations in conferences/seminars before the submission of the thesis
10.10	A thesis already presented for the Master of Philosophy (M.Phil.) Degree shall not again be accepted for the degree of Doctor of Philosophy. However, some portion of it may be utilized in the Ph.D. thesis. The thesis should make substantive contribution to the discipline concerned, as evinced by discovery of new facts, or a fresh interpretation of facts or theories and should be so certified by the scholar and the supervisor.
10.11	When the thesis is ready for submission, the scholar shall apply through his/her supervisor stating therein that the thesis is on the point of completion. Such a report be received at least one month before the completion of the thesis.
10.12	The Convener of Board of Studies (in case of non-PhD, then the next senior most teacher of the subject having PhD) concerned shall recommend a panel of three external experts preferably of Professor level, along with their email address, postal address, fax and contact

	number along with the area of expertise as evinced by web page, CV, etc. The supervisor shall also recommend a panel of three experts. The supervisor shall be co-opted as a member of the Board of Studies for this purpose. The Vice Chancellor may add more names to these panels. From these two panels at least two experts shall be appointed by the Vice Chancellor. The convener and the supervisor shall annex the consent obtained from the proposed examiners prior to the submission of their panels. It is to be ensured that at least one examiner expert shall be from outside the State. It shall be up to the University to have one examiner from outside the Country. In case the Convener is the supervisor the Panel of experts shall be obtained from the next senior member of Board of Studies/RDC having PhD degree.
10.13	In case, the thesis is not submitted within the stipulated time of three months, the panel may stand lapsed and a fresh panel may have to be recommended as above. After the 'Pre-Ph.D. Submission Presentation', the candidate shall submit the summary of the thesis in a CD and six (06) hard copies. After submission of the summary the panel of examiners may be drawn as per 8.13 (ii) and the copy of summary may be sent/mailed to the examiners for acceptance. The consent of the examiner(s) shall be obtained before the dispatch of the thesis.
10.14	Every effort should be made to ensure that the Panel of examiners shall not have more than one examiner from one University.
10.15	The research scholar shall submit the thesis in four printed or type written copies of his thesis with a declaration that the same has never been published earlier and two CDs containing the thesis in PDF format along with the scanned images of certificates and declarations etc, for sending the thesis electronically to examiners, if desired by them, along with the three copies of summary and approved synopsis. Published matters may also be incorporated mentioning the sources as part of the thesis. The medium of expression of every thesis shall be either English or Hindi (written in Devanagari Script) except in the case of subject related to any of the oriental language where the thesis, may at the option of the candidate be presented in that language. The Title, Synopsis and Thesis shall be in the same language.
10.16	The thesis shall comply with the following Conditions:
10.16 (i)	It must be a piece of research work characterized either by the discovery of facts or theories. In either case it should reflect the candidate's capacity for critical examination and sound judgment. The candidate shall communicate, how far the thesis embodies the result of candidate's own observations and in what respects his investigations may advance knowledge in the subject.
10.16 (ii)	It shall be satisfactory so far as its literary presentation is concerned and must be in a form suitable for publication.
10.16 (iii)	The thesis shall be accompanied by a certificate from the supervisor stating:
10.16(iii)a	That the thesis embodies the work of the candidate himself/herself.
10.16(iii)b	that the candidate worked under him/her for the period required under Ordinance, and
10.16(iii)c	That he/she has put in the required attendance in the department during that period.
10.16(iii)d	That he has completed pre-Ph.D. course work satisfactorily as per ordinance 5.1 to 5.7.
10.16 (iv)	The candidate shall also remit, with thesis, Rs. 30,000/ (Rupees Thirty Thousand Only) for all categories as the evaluation and viva-voce examination fee for Ph.D. degree.
11.0	PhD Thesis and Examination
11 (i)	On receipt of the thesis, along with the certificates and the fee mentioned above, the thesis shall be sent within two weeks to examiners appointed for the purpose after receiving their consent as stated in 8.13(iii). In no case, the maximum time for all this process shall exceed two months.
11(ii)	In case, if the evaluation report is not sent by the examiner within three months of the dispatch of the thesis, a copy of the thesis shall be sent to new examiner. Consideration of the reports sent by the examiners after three months of the dispatch of the thesis shall be at the discretion of the Vice Chancellor.
11 (c)	If the examiners consider the thesis to be of sufficient merit, they may recommend that the thesis be accepted for the award of the degree of Doctor of Philosophy.
11 (d)	On receipt of satisfactory evaluation reports thesis shall be laid before the Vice Chancellor.

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11 (e)	If the majority of examiners recommend that the candidate be asked to improve his thesis, the Executive Council/Vice Chancellor may permit the candidate to re-submit his thesis, the earlier than six months and not later than the date to be fixed by the Executive Council/Vice Chancellor in such cases.
11 (f)	In case a candidate is allowed to re-submit his thesis, he shall have to pay a fresh fee of Rs. Five thousand at the time of resubmitting the thesis but it shall not be necessary to produce any certificate e.g. further attendance at the Institution.
11 (g)	If two examiners recommend the revision of the thesis the thesis shall be revised and resubmitted. The revised thesis shall ordinarily be examined by the same set of examiners for evaluation after obtaining their consent afresh. <i>Provided</i> further that in case two examiners reject a thesis, the thesis shall be finally rejected. If the evaluation report of one of the external examiner is unsatisfactory and does not recommend viva-voce, the university shall send the thesis to another external examiner out of the approved panel of the examiners and the viva-voce examination shall be held only if the report of the latest examiner is satisfactory. If the report of the latest examiner is also unsatisfactory, the thesis shall be rejected and the research scholar shall be declared ineligible for the award of Ph.D. Degree.
11 (h)	If all the reports are positive and definite, the candidate shall be required to undergo a Viva-Voce examination to be conducted by two examiners of whom one shall ordinarily be the supervisor and the other two from amongst the three external examiners, who have evaluated the thesis. If the external examiners evaluating the thesis are from outside the country, another external examiner may be specially appointed for the purpose.
11 (i)	The Head of the Department in case of University Campus/ Convener in case of colleges shall preside and conduct the proceedings of the Viva-Voce examination, but he/she shall not be party to the decision. In case of non-availability of either of them the ViceChancellor may nominate a Professor to preside and conduct the proceedings of the Viva-Voce examination.
11 (j)	In case the supervisor is not available, the Head of the Department or any senior teacher of Department, recommended by the Convener/Dean and approved by Vice Chancellor may act as internal examiner.
11 (k)	The Viva-Voce examination shall be held at the University Headquarters and will be open to all interested in the subject, where the candidate shall be required to present the main findings of his/her thesis and defend the same. Examination board consisting of supervisor, one external examiner and Head of Department in case of University Campus/Convener in case of college, shall conduct the Viva-Voce. RAC members can also attend Viva-Voce, however, no TA/DA shall be paid to them for this purpose. After satisfactory Viva Voce, the Vice Chancellor may approve the recommendations of Examination Board and the result of the candidate be declared provisionally on behalf of RDC. After the approval of Executive Council provisional certificate shall be issued to the candidate from the date of Viva-Voce.
11 (l)	A printed copy, not used for evaluation and an electronic version on a CD of each accepted thesis shall be placed in the University Library or Research Centre at which the candidate pursued research where it will be open to public inspection.
11 (m)	The copies of report of examiners of the thesis and viva-voce reports, may be given to the candidate on his written request, only in cases where the thesis has been finally accepted for award of the degree, after award of the degree.
11 (n)	Following the successful completion of the evaluation process and conferment of the award of Ph.D. degree the University shall submit a soft copy of the Ph.D. thesis to the University Grants Commission within a period of thirty days, for hosting the same in INFLIBNET, so as to make it accessible to all Institutions/Universities.
11 (o)	The University shall host another soft copy of the Ph.D. thesis on its website for general viewing.
11 (p)	The University, along with the Degree, shall issue a Provisional Certificate certifying to the effect that the Degree has been awarded in accordance with the provisions to the University Grants Commission (Minimum Standards and Procedure For Award of Ph.D. Degree) Regulations, 2022.

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(Annexure-I)
ORDINANCE FOR Ph.D. PROGRAMME
ARTS, AGRICULTURE, COMMERCE, EDUCATION, LAW & SCIENCE FACULTIES
(2022 onwards)

1. INTRODUCTION

1.1 Preamble

This ordinance governs all the rules and regulations as per the NEP 2020 for the PhD Program running in the campus University and in its affiliated colleges. This ordinance supersedes all the previous ordinances, rules and regulations and shall be an annexure part of Ph.D. Program.

1.2 Duration

Bundelkhand University has adopted the course work for Ph.D. Program guidelines for various subjects as per guidelines of Department of Higher Education, Uttar Pradesh Government vide letter No 401/seventy-3-2022 dated 09-02-2022 to accelerate the research work process and enable the advance research from the academic session 2022 onwards in the higher academic institutions.

The duration of course work shall be of one year which comprises two semesters. In case a student(s) exits from this programme after completion of the semesters, he/she may take exit from this programme after coursework examination and shall be awarded the Post Graduate Diploma in Research (PGDR). After the successful completion of research course work as mentioned in the ordinance, student shall be registered in the research under the supervision of guide. The maximum period to complete Coursework shall be two years. A student shall be awarded PhD degree in the concerned subject after submission, evaluation and Viva voce of his/her thesis.

The minimum period for submission of Ph. D. thesis shall be 2 years after the completion of Ph. D. course work. The maximum period for submission of Ph. D. thesis shall be 3 years after the completion of Ph. D. course work.

In case, a candidate fails to submit his/her thesis within the required four calendar years, he/she shall not be considered as a bonafide scholar of the university and shall not be entitled to the rights and facilities extended to a regular student provided that such a candidate may under special circumstances be permitted by the Vice Chancellor, on the collective recommendation of Supervisor, Convener/Head of Department and the Dean of the Faculty concerned, to submit his/her thesis in maximum period of five years (including the three years of his/her earlier).

1.3 Eligibility for Admission

Candidate, who wishes to seek admission in a course work of study prescribed for a research degree of the University, shall be admitted to campus unless he/she have:

- passed the master degree course examination of the University of Uttar Pradesh or any other Indian University recognized by UGC, or
- passed any other equivalent examination recognized by the University, or
- Passed any other equivalent examination recognized by a Foreign University.
- With NET/GATE/GPAT (in case of pharmacy), GATE (Science subjects) SLET-2000, CSIR, ICAR, Inspire fellow or Bundelkhand University Entrance Examination for Ph.D. The date of admission shall follow the University academic calendar.

2. STRUCTURE OF COURSE WORK

The PhD Program may be computed in three Phases:

- (i) Coursework for one year
- (ii) Registration
- (iii) Approval of Research Topic/Title and allotment of Guide by RDC
- (iii) A candidate should submit minimum five and maximum eight half yearly research progress report

The PhD program is divided into two parts. (i) The one year course work (ii) registration approval research topic and synopsis and guide allotment by RDC. Candidate shall submit minimum five & Maximum Eight six monthly progress report at University during the Ph.D. work.

Structure of Course work: The coursework consist of two papers in the first semester and one paper and project/ dissertation in the second semester.

First Semester:

Paper I Methodology of Research (Credit:6)

Paper II Methods of Analysis for Research (Credit:6)

Second Semester:

Paper III Specific Research Methodology in the Concerned Subject (Credit: 4)

Dissertation/Project work (Qualifying marks 40%)

3. ATTENDANCE

The expression "a regular course of study" wherever it is used in these Ordinances, means attendance of at least 75% of the lectures and other teaching in campus in the COURSE WORK STUDY for the examination at which a candidate intends to appear as is required by any Statute, Ordinance or Regulation in force for the time being in the University.

A shortage up to 5% of the total number of lectures delivered or practical work done in each subject may be condoned by the In-charge of course work coordinator.

A further shortage up to 10% may be condoned only by the Vice- Chancellor on the specific recommendation of the course coordinator.

4. EXAMINATIONS

There shall be examination at the end of course work of each semester in accordance with the academic calendar of the university. A candidate who does not pass the examination in the coursework shall be given one more chance to appear in the subsequent examinations. Provided that he/she had deposited the prescribed fees for concerned examinations

5. EVALUATION

The performance of a student in each paper of course work is evaluated in terms of percentage of marks

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with a provision for conversion to grade point. Evaluation for each course shall be carried out by a Continuous Internal Assessment (CIA) by the concerned course teacher and by end semester examination and will be consolidated at the end of course. The evaluation must be continuous and holistic and should be based on following parameters:

- i. Academic assessment
- ii. Assignment/ Presentation/ Seminars

5.1 THEORY PAPER

The Course work of Semester Examinations shall be conducted by the university in the scheduled date mentioned in the academic calendar. The Question paper shall be set by the examiners appointed by the Vice Chancellor. The pattern of the question paper shall be given as per suggestions of Dean's Committee.

- i. Internal Assessment (C.I.A.) –25%
 - Test/ Mid-Term Assessment- 10 marks
 - Term paper/Presentation on given project/assignment- 10marks
 - Attendance/activities- 05marks
- ii. End Semester Exam (External examination)– 75% weight-age of Ph.D. course work.

MINIMUM PASSING STANDARD

1. The minimum passing standard for combined external and internal examinations for each subject/paper shall be 55%, i.e. 55 out of 100 marks for theory papers.
2. Continuous Internal Assessment (CIA) shall be ensured by the coordinator course work for the Ph.D. course. The coordinator shall provide the marks of the same to the university and it shall be mandatory to maintain the records of the same till the maximum duration of the course.
3. The marks of internal assessment of a student who fails in a semester examination shall be carry marks of forward to the next consequent examination.

PROVISION FOR EX-STUDENTS

A Back Paper (B.P.)/failed candidate shall not be promoted for Ph. D. registration. The back paper facility in course work examination provides to the subsequent examination.

8.2 DECLARATION OF RESULTS

After appearing in the Examination of course work in a particular year, the result of student can be put in the following categories:

- i) Passed
- ii) Failed

“Failed” students may clear their UNCLEARED paper/papers in subsequent examinations as ex-students.

A student who failed in a course work shall be given one more chances to clear this course work examination.

A candidate who has qualified for the Degree shall be placed grade as per following table:

COMPUTATION OF SGPA

The guidelines formulated by Bundelkhand University shall be followed in order to bring uniformity in evaluation system based on SGPA (Semester Grade Point Average) based on students' performance in examination. For the purpose of computation of work load the UGC proposed mechanism is adopted i.e. one credit=1 Theory period of one hour duration, one credit= 1 Tutorial period of one hour duration. The credit(s) for each theory paper/assignment will be as per the respective

course work coordinator.

Letter Grade	Numerical grade
O (outstanding)	10
A+ (Excellent)	9
A (very good)	8
B+ (Good)	7
B (average)	6
F (Fail)	<5.5
Ab (Absent)	0

The minimum passing marks shall be 55% as prescribed in the University Examination and 55% of marks in the aggregate marks in the subjects of course work including internal / Sessional marks i.e. Minimum Passing Grade is "B".

A student who obtains Grades "B" or more than this shall be considered as PASSED. If a student secures "F" grade, he/she shall be considered as FAILED and shall have to reappear in the examination. It is mandatory for a student to earn the required SGPA as in each semester. If a student is not able to secure 55% / B grade in any theory / practical / internal / Sessional / assignment examination, the awarded grade point shall be ZERO (0).

Syllabus Detail

Paper I (Credit: 6) Methodology of Research

Programme/Class: Ph. D.	Year: Course work	Semester: First
Paper I (Credit: 6) Methodology of Research		
Course Code: Ph. D. 101		Course Title: Methodology of Research
Course outcomes: Research scholars are able to aware about the research thought base and know the idea about the research. They will also know the importance of research for the society.		
Credits: 6		Compulsory
Max. Marks: (25+75)		Minimum Passing Marks: 55%
Total No. of Lectures-Tutorials-Practical (in hours per week): L-T-P: 3-3-0		
Unit	Topics	No. of Lectures Total=60
I	Introduction: Meaning of Research, Objectives of Research, and Types of Research, Research Process, Research Problem formulation; Meaning and definition of scientific process, a brief history of scientific process, Ethical issues and consideration in research.	12
II	Meaning, need and features of good research design, Types of Research Designs, Basic Principles of Experimental Designs, Design of experiments, and Synopsis design for various research topics and how to write effective synopsis.	12

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III	Sampling Designs: Census and Sample surveys, Different types of sample designs, Characteristics of good sample design, sample size, details of Sampling Methods for data collections.	12
IV	Presentation: Diagrams; graphs; charts, Report writing; Layout of Research report; Types of Reports; Mechanism of writing a Research report; Precautions for writing report. Report publication research of journals for the publication, high indexed journals, Scopus index journals, UGC care listed journals, and peer reviewed journals and leading research publication series.	12
V	Library based assignment: Identification and formulation of research problem Use of review of literature in research Evaluation of research papers Book review Submission of concise notes; Introduction to UGC Info net, INFLIBNET, and ERNET etc.field and computer hazards: Viruses, misuse of internet, hacking, field hazards.	12
Suggested Readings:		
1. Banerjee S. and Roy Ramendu, Fundamentals of Research Methodology		
2. Deepak Chawala and Neena Sondhi, Research Methodology		
3. C.R. Kothari, Research Methodology		

Paper II (Credit: 6) Methods of Analysis for Research

Programme/Class: Ph. D.	Year: Course work	Semester: First
Paper II (Credit: 6) Methods of Analysis for Research		
Course Code: Ph. D. 102	Course Title: Methods of Analysis for Research	
Course outcomes: Research scholars will able to know about the basics as well as advance research quantitative techniques which will be useful for acquiring the Ph. D. degree and in future for writing and completing the research project.		
Credits: 6	Compulsory	
Max. Marks: 25+75	Minimum Passing Marks: 55%	
Total No. of Lectures-Tutorials-Practical (in hours per week): L-T-P: 3-3-0		
Unit	Topics	No. of Lectures Total=60
I	Univariate analysis: Measures of central tendency, measures of dispersion, standard deviation and its importance in research, usage of normal probability curve in research. Bivariate Analysis: Correlation Analysis and Regression Analysis; Time Series Analysis.	10
II	Data and types of data; Primary and secondary data, Methods of collecting primary and secondary data, Importance and methods of editing and data validation ,reliability and validity of questionnaire, ethics in research and plagiarism in research.	10
III	Definition, testing of hypotheses, procedures of hypothesis testing, flow diagram for hypothesis testing, parametric and non-parametric tests for	10

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	testing of hypothesis, Limitations of tests of hypothesis.	
IV	Fundamentals of computers, Introduction about End Note and software for reference and bibliography setting, Use of ICT and other types of software's in Research, Data Analysis Software and Analysis Techniques. Use of multimedia tools.	10
V	Review of Literatures; research gaps, recent research techniques; thrust area of research; advance researches and new challenges of research in concerned subjects 1- Review of Literatures; research gaps, recent research techniques; thrust area of research; advance researches and new challenges of research in faculty of Arts (all subjects) 2- Review of Literatures; research gaps, recent research techniques; thrust area of research; advance researches and new challenges of research in faculty of Agriculture (all subjects) 3- Review of Literatures; research gaps, recent research techniques; thrust area of research; advance researches and new challenges of research in faculty of commerce (all subjects) 4- Review of Literatures; research gaps, recent research techniques; thrust area of research; advance researches and new challenges of research in faculty of Education 5- Review of Literatures; research gaps, recent research techniques; thrust area of research; advance researches and new challenges of research in faculty of Law 6- Review of Literatures; research gaps, recent research techniques; thrust area of research; advance researches and new challenges of research in faculty of Science (all subjects)	20

Suggested Readings:

1. Research Design: Qualitative and Quantitative and Mixed Methods approaches by John W Creswell
2. The Research Methods Knowledge Base by William M K Trochim & James P Donnelly
3. Deepak Chawala and Neena Sondhi, Research Methodology
4. S P Gupta, Research Introductory: Concept Methods and Techniques
5. C.R. Kothari, Research Methodology

Paper III (Credit: 4) Specific Research Methodology in the Concerned Subject


Programme/Class: Ph. D.	Year: Course work	Semester: First
Paper III (Credit: 4) Specific Research Methodology in the Concerned Subject		
Course Code: Ph. D. 103	Course Title: Specific Research Methodology in the Concerned Subject	
Course outcomes: Research scholars will able to aware about the research methodology for their specific discipline or the interest area. It will provide them subject specific practical techniques which will help to solve the research problem.		
Credits: 4	Compulsory	
Max. Marks: 25+75	Minimum Passing Marks: 55%	
Total No. of Lectures-Tutorials-Practical (in hours per week): L-T-P: 3-3-0		

Unit	Topics	No. of Lectures Total=40
I	Basic concepts of paper their writing and report generation, Review of literature, Concepts of Bibliography and References, Types of Research reports, Steps of report writing, Significance of report writing, Methods of presentation of report.	10
II	Ethics in Research, Plagiarism and its significance in doctoral research, Plagiarism checking through frontline software. Post writing stages: The Preliminaries, Title Page, Table of Contents Approval Sheet Typing, Instructions, Proof Reading.	10
Suggested Readings:		
1. Deepak Chawala and Neena Sondhi, Research Methodology		
2. Banerjee S. and Roy Ramendu, Fundamentals of Research Methodology		
Faculty of Arts		
III	Methods of research: Historical Method, Comparative Method, Case-Study Method, Experimental Method, and the Statistical Method, subject wise major Methods of research.	10
IV	Testing of the research scholar's acquaintance with the standard research journals of his/her subject by making him/her study one of them allotted to him/her by the department. The scholar should be made to write summary of at least five research paper published in subject area since the last five years.	10
Faculty of Agriculture		
III	Importance of Agriculture /Horticulture /Forestry /Livestock in national economy, Post GATT structural changes related to agriculture and research challenges, Organizational set up of agricultural research, education and extension in the country, good laboratory practices, conservative agriculture system/experimental organic forming & formal system management, bio-fertilizer & bio-pesticides crop improvement techniques	10
IV	Meaning and significance of research in agriculture, Knowledge of scientific methods of research, laboratory work and writing up an experiment, research design and procedures, Acquaintance with research journals, laboratory techniques, communication and information media.	10
Faculty of Commerce		
III	Business research design; exploratory, descriptive and causal studies; population and sample; Measurement and scaling techniques: nominal scale, ordinal scale, ratio and interval scale;	10
IV	Rating scale; criteria for good measurement; attitude measurement- Likert's scale, Semantic Differential scale, Turnstone- equal appearing interval scale, Multivariate analysis: factor analysis, cluster analysis, conjoint analysis, multidimensional scaling and perpetual mapping.	10
Faculty of Education		
III	Observation: concept, types, importance, problems with using observation as a method of data collection, advantages and disadvantages of observation. Psychological test: meaning, characteristics of a good test, steps of test construction, validation and standardization. Inventory, rating scales, check lists and interview.	10
IV	Establishing the validity and reliability of a research instrument The concept of	10

	validity, types of validity The concept of reliability, types of reliability, factors affecting the reliability and validity of research tools, importance of reliability and validity of research tools.	
Faculty of Law		
III	Criteria of good research: meaning and objectives of research, importance of research methodology, kinds of legal research: Historical, Analytical, Philosophical. legal research in India: evolution and development, problems and challenges interdisciplinary perspective on legal research identification of research problem, survey of literature, working hypothesis, report writing and its tools, tools of legal research, legal research and law reforms, plagiarism and copyright infringement.	10
IV	Concept of legal research and different kinds of legal research, Law and social transformation Ethics, mortality and law, Inter-relationship between law and modernization in a developing society, Modern challenges to legal formalism and recent legal theories, critical legal studies, feminism, postmodernism, New perspective on legal theory, human rights, sustainable development, globalization.	10
Faculty of Science		
III	Science and ethics; science as the social, cultural and human pursuit. Common Laboratory Safety measures: Radiation handling techniques, Bio-hazardous and other toxic materials/ Microbes and its application, Bio-Safety measurement, Facilitation of Scientific deliberations among students and faculty, Good laboratory practices: Recording and storage/ retention of recorded materials and data Maintenance of equipments, proper storage and preservation of disposal of hazardous materials (chemical & biological) important equipments and their function, analytical data limitation and error calculation.	10
IV	Nature and importance of Communication in Science Popularization of Science Socio-Legal issues: Originality, Integrity, IPR, Patents, Plagiarism Experimental Techniques for research in physics, chemistry zoology, botany and other interdisciplinary sciences including basic sciences, earth science, environmental science and applied science technology.	10

THE END




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