

# VEER BAHADUR SINGH PURVANCHAL UNIVERSITY JAUNPUR, 222003(U.P.)

vbspu.ac.in

- 3.4.1 The institution ensures implementation of its stated Code of Ethics for research
- 3.4.1.1 The institution has a stated Code of Ethics for research and the implementation of which is ensured through the following:
  - 1. Inclusion of research ethics in the research methodology course work
  - 2. Presence of Institutional Ethics Committees (Animal, chemical, bio-ethics etc)
  - 3. Plagiarism check
  - 4. Research Advisory Committee

Response: A. All of the above

#### **File Description**

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2.	Research ethics in the research methodology course work	07-18
3.	<b>Presence of Institutional Ethics Committees</b>	19-25
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#### Veer Bahadur Singh Purvanchal University, Jaunpur

#### Code of Ethics for Research

Maintaining research ethics is of paramount importance in academic institutions and Veer Bahadur Singh Purvanchal University (VBSPU) believe that faculty members, researchers, scientists, and students entail a commitment to the advancement of research. VBSPU firmly believes in following ethics and honesty in research and maintaining high honesty, transparency, and accountability in research. Hence several measures are established for the prevention of research misconduct failing which would evoke disciplinary actions at various levels.

The Code of Research Ethics determines the basic research ethical standards for faculty members, researchers/scientists, students, and all other stakeholders at the University. VBSPU lays down a code of ethics for research and researchers, which provides guidelines for the responsible conduct of ethical research with the following **objectives**:

- 1. To ensure that all research activity undertaken by VBSPU complies with agreed national/international ethical standards.
- 2. To promote and inspire researchers to undertake basic and applied research activities which have national and international importance.

#### **Good Research Practices:**

#### **Laboratory Records:**

It is mandatory to maintain proper records of data from each research project whether it is questionnaire-based or experimental research. These records are the property of respective laboratory and university.

#### Collaborative studies:

In the case of collaborative research, benefits (both in material and publication/patent) of the research should be decided before to starting the research, should be accepted by each collaborator, and well recorded.

#### Authorship:

It is mandatory for all researchers/scientists to disseminate the research results in an open, transparent, honest, and accurate manner. The University expects all publications to conform to appropriate discipline-specific professional standards. In the multi-authored publications, the

contribution of each author should be mentioned in the manuscript. Any individual, who has not made an intellectual contribution to any particular research project should not be included as an author of the publication derived from that research Ghost and honorary authorships come under research misconduct and unethical practice and should not be encouraged. In each publication, acknowledgment of the funding agency and declaration of Conflict of Interest (COI) is mandatory. In addition, the contribution of each author should also be mentioned.

#### Plagiarism:

All research works of the students such as assignments, project reports, and dissertations should be free from plagiarism. In the manuscript, the author/authors should provide a disclosure statement that he/she did not copy any paragraph/sentences from previously published research work either from his/her own (self-plagiarism) or from other researcher's published information. University has subscribed to plagiarism checker software (Ouriginal) and each faculty member has free access. Every thesis/manuscript/dissertation has to be checked by Ouriginal software before submission. Researchers should report data collection methods; analyses and interpretation of results transparently and honestly.

#### Research on humans and human biological materials:

All research projects involving human tissue should be cleared by the Institutional Ethics Committee (IEC) of the University, which is constituted according to the guidelines of the Indian Council of Medical Research (ICMR). Informed written consent from each participant is necessary before the collection of human samples (blood/tissue).

#### Use of animals in research:

The guidelines on rules and regulations of the Ministry of Environment, Forests and Climate Change (MoEFCC), India should be followed by the researchers using the animal in their experiments. The animal houses should comply with the best possible standards of hygiene and upkeep. Every researcher has to take permission from Institution's Animal Ethics Committee before starting the experiments.

#### Working with Chemicals:

Every researcher/scientist/student have to follow the recommendations of the Bureau of Indian Standards, Govt. of India for the code of safety for laboratory chemicals.

#### **Radiation Safety:**

In the case of working with radiation sources (radioisotopes etc.), researchers have to follow the guidelines set by the Department of Atomic Energy, Govt. of India. Close monitoring

by the Institution Research Ethics committee is necessary to monitor regularly the risk of radiation.

#### **Definition of Research Misconduct:**

Research misconduct includes not only plagiarism, falsification, and fabrication, falsification, but also includes deception of methodology, data, and negative results and failure to follow a protocol and negligence in following biosafety guidelines, etc.

Research misconduct may be categorized into the following:

- Plagiarism: Plagiarism includes the use of results, data, and language of other's
  published work without giving credit /citation. Even the use of data, results, and
  paraphrasing of own published articles also comes under the category of plagiarism i.e.
  self-plagiarism.
- Embezzlement of ideas: Without proper citation, using the ideas of other researchers
  obtained from access while manuscript reviewing, grant proposal reviewing and
  discussion, etc. also a category of research misconduct.
- Falsification: Addition/ deletion/ misrepresentation of a part of data to generate positive results to present a misleading outcome.
- Fabrication: Reporting 'results' of experiments that were never done. This also includes images/ photographs being morphed to reach a particular interpretation. Inclusion of data/information in research publications, thesis, and dissertation reports without performing any experiments
- Fraud: Deliberately highlighting results of own research and avoiding inclusion of other researcher's results which are contrary to present results.
- Non-compliance of Regulatory Guidelines: Intentional avoidance of the ethical guidelines of human (IEC/ICMR) and animal (MoEFCC) research and also violations of biosafety regulations.
- Inappropriate Authorship: Supervisors are not giving proper credit to students and inclusion of non-contributing individuals as a ghost and honorary authors in the manuscript.
- Withholding data from Validation: Researchers hide facts/data and methodology and
  do not provide data or research materials to the university/journal for
  verification/validation purposes.

#### **Curbing research misconduct:**

All the faculty members/ researchers/scientists/students at VBSPU are expected to follow the Code of Ethics of research as described in this policy. University has taken several measures to curb research misconduct:

- University subscription of plagiarism checking software: University has subscribed the plagiarism -checking software named ouriginal.
- Mandatory plagiarism checking: Each student must get performed for submitting the project report/dissertation/ research paper to the University/ or any journal publication house.
- Mandatory Similarity Check of thesis submission: The similarity check is also performed on the theses submitted to the University and uploaded on Shodhganga to curb plagiarism.

#### Responsibilities of Researchers:

University has also set few responsibilities to the researchers, and the researcher

- should be aware of and adhere to the code of research ethics,
- should employ appropriate research methodology,
- should keep proper and accurate records of all research/experiments/data,
- should disseminate research findings,
- should take responsibility for their contributions to all publications, funding applications, reports, and other representations of their research,
- should mention the contributions of each author in publication,
- should disclose clearly financial and other conflicts of interest, and
- should report to the appropriate authorities about any suspected research misconduct, including fabrication, falsification or plagiarism, and other irresponsible research practices.
- ➤ Institution Research Ethics Committee: University has constituted an Institution Research Ethics Committee to look after the implementation of the code of research ethics in the university and affiliating colleges. Responsibilities of the Research Ethics Committee are:
  - To promote research excellence and integrity

- to provide advice and guidance to the VBSPU academic community on all matters of research ethics
- to provide guidance and academic support to researchers/Scientists/students on ethical issues in respect of research and other academic activities.
- to act as an investigative/consultative body for any disputed matter concerning research ethics and conduct

#### **Dealing with Misconduct:**

The Institution Research Ethics Committee, (IREC) would be set by the Vice Chancellor of the University comprising eminent researcher as chairman from the University and assistant registrar (Academic) as member secretary and at least one external expert. Research misconduct shall be reported to the IREC, which will enquire and take appropriate action against the offending researchers.

#### Levels of Violations of Good Academic Practice

Two levels of violations of good academic practice can be distinguished.

#### 1. Minor Violations:

Such violations may present no risks to subjects, the wider community, or the environment, but they may warrant some penalty or sanction at the institutional level.

#### 2. Major Violations:

The level of violation of research integrity is deliberate, such as negligence in handling human and animal samples, more than 20% of plagiarism, fabrication and falsification of data, etc.

Dr Dharmendra Singh

Dr Kajal Dey

Dr Amarendra Singh

Dr Avinash D Pathardikar

14/04/102

Dr Vandana Rai Coordinator

Research & Development Cell



## VEER BAHADUR SINGH PURVANCHAL UNIVERSITY JAUNPUR, 222003(U.P.)

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#### **File Description**

	Documents	Page Number
1.	Research ethics in the research methodology course work	02-13
2.	<b>Presence of Institutional Ethics Committees</b>	14-20
3.	Plagiarism check	21-32
4.	Research Advisory Committee	33-47

# Veer Bahadur Singh Purvanchal University Jaunpur



Pre- Ph.D. Course Work (Ordinance and Syllabus)

Biotechnology (w.e.f. 2022-23)

(As per National Educational Policy-2020)

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## Syllabus Developed by:

S. No.	Name	Designation	Department	University
1	Dr. Pradeep Kumar	Convener, BOS, Biotechnology	Biotechnology	V B S Purvanchal University, Jaunpur-222003
2	Prof. Gyaneshwar Chaubey	External Expert, BOS, Biotechnology	Zoology	Banaras Hindu University, Varanasi-221005
3	Prof. Vandana Rai	Internal Expert, BOS, Biotechnology	Biotechnology	V B S Purvanchal University, Jaunpur-222003
4	Prof. Ram Naraian	Internal Expert, BOS, Biotechnology	Biotechnology	V B S Purvanchal University, Jaunpur-222003
5	Prof. Rajesh Sharma	Internal Expert, BOS, Biotechnology	Biotechnology	V B S Purvanchal University, Jaunpur-222003

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Registrar V.B.S. Purvanchal University Jaunpur

#### V.B.S. PURVANCHAL UNIVERSITY, JAUNPUR Pre- Ph.D. Course Work (Ordinance and Syllabus) Biotechnology (w.e.f. 2022-23)

As per the university ordinance, the research scholars who are provisionally registered for the Ph. D. Programme will undergo a Pre- Ph.D. Course work.

Aim of the Course Work: The aim of Pre- Ph. D. course work is to develop and enhance the research skills like investigation, evaluation, reasoning, comprehension, analysis, writing, editing and designing

#### Course Work Structure:

The duration of Pre-Ph. D. course will be of one semester (six month). There will be three compulsory papers during the course. The minimum attendance required during the course work period is 75% of the total courses. This course work is mandatory. The following scheme is to be followed for successful completion of the course work.

Scheme of the Course (All papers are compulsory)

Paper Title:

Paper-1 Research Methodology (Credits-6)

Paper- II Computer Applications (Credits-6)

Paper- III Research Ethics (Credits-4)

Note- 1. Minimum Passing Marks- 55% or equivalent Grades/ CGPA.

2. One research project\* is mandatory for each research scholar.

#### Paper setting and Evaluation Pattern

(For Paper I, II and III)

Types of Ouestion	Total Number of Questions	Questions to be Attempted	Marks	Time
Objective Type	10	10	10x2=20	
Short Type	8	5	5x8=40	3 Hours
Long type	4	2	2x20=40	

<sup>\*</sup>Research project will be of 100 marks, its marks will not be included in CGPA

Note: 1. Language of the course would be either English of Hindi.

2. Teachers in service are allowed to attend either online or offline mode of Pre PhD Course Work class.

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(Total Credits: 16)

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Department of Biotechnology
Faculty of Science
V.B.S. Purvanchal University, Jaunpur
Course work for Ph.D. Students

#### Course 1: Research Methodology

6 Credits

UNIT I

Objectives of Research, Research problem and techniques involved in defining a problem, steps of scientific study, formulation of hypothesis, defining sources, workable hypothesis, basic concept of research design

#### UNIT II

Survey, Case study (if required), experimental method, interdisciplinary approaches

#### UNIT III

Collection, Classification and tabulation of data, Measures of central tendency, Chi square test

#### UNIT IV

Analysis and interpretation of data, techniques of interpretation, steps of report/ review/ research paper writing, layout and preparation of report

UNIT VStudying various National R&D agencies (CSIR, ICMR, DST, DBT, UGC, ICAR, etc) to findout their priority areas and thrust areas.

#### Recommended readings:

- Research methodology: Methods and techniques by Kothari, CR(2007); New age international Ptv. Ltd.
- 2. Research Methodology by pannecrselvam, R(2007); prentice Hall India (P) Ltd.
- 3. Quantitative Methods; ICFAI University press(2004).
- Instrumental Methods of Analysis: by HH Willard, merrit, jr LL, Dean JA &Settle, jr, FA; CBS Publisher and distribution (1986).
- Business Statistics by Bhardwaj, RS Excel Books. Statistical Methods by Shenoy, GV and Pant. LM(1994); MacMillan India Ltd.

## Course 2: Computer Applications

6 Credits

UNIT IIntroduction to computer, types of computer and components of computer, role of computer in research

UNIT II Concept of languages, languages suitable in scientific research

UNIT III MS Office tools (access, excel, power point, word)

UNIT IVIntroduction to internet, different parts of internet, application of internet

UNIT V Introduction to software. Software commonly used in scientific research (sigmaplot, enzfitter, BLAST etc.)

#### Recommended readings:

Biostatistics, Computer Application and Bioinformatics (2015) V. Kumaresan, N. Arumugam, R. Sundaralingam A. Gopi, A. Meena

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 Computer Applications for Life Sciences Author: Joan Harnett ISBN: 978-1-60797-418-5

#### Course 3: Research Ethics

4 Credits

UNIT I: Objectives in research ethics; management of risk, the application of fundamental ethical principles in scientific research.

UNIT II: Various aspects of academic scandal, including scientific misconducts (such as fraud, fabrication of data and plagiarism), Whistle blowing, etc.

UNIT III: The design and implementation of research involving human and animal experimentation; Animal Ethics Committees (AECs),

UNIT IV: Ethical Issues in Biological Research: the efficiency, equity, excellence and environmental consequences of resource and institutional management.

UNIT V: Regulations and guidelines relating to radiation or biological safety.

Recommended readings:

 Research in Medical and Biological Sciences-From Planning and Preparation to Grant Application and Publication, 1st Edition Editors: Petter Laake Haakon Benestad Bjorn R. Olsen Paperback ISBN: 9780127999432eBook ISBN: 9780128001547 Imprint: Academic Press

 Textbook of Research Ethics Theory and PracticeBy: Sana Loue ISBN: 9781475773170

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## COURSE STRUCTURE and SYLLABUS

**FOR** 

## Ph.D. COURSE WORK



Recommended by the Board of Study Meeting on August 01,2019 as per the Directions issued vide Registrar's Letter No. -1216/Academic section/2019 dated 21.05.2019

## **Department of Mechanical Engineering**

# VBS PURVANCHAL UNIVERSITY, JAUNPUR

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Registrar V.B.S. Purvanchal University

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## **STUDY & EVALUATION SCHEME**

## Ph.D. (Doctor of Philosophy)

SUBJECTCODE	SUBJECT	TOTAL
CW-101	Research Methodology	50
CW-102	Computer Applications	50
CW-103	Research Ethics	50

Evaluation of the above courses, including mid-term examinations, sessional work and end semester examination, will be governed by the Univ. Regulations/Ordinances and/or as decided by the University and Mechanical Engineering Department.

## CW-101: Research Methodology

#### Unit 1: Introduction to Research

Research Methodology, Scope of the Research, Types of Research Problems, Issues and Challenges in Research

#### Unit 2: Research Formulation

Identification of the problem, Literature review, National & International status of Technology,

Identifying research gaps, Defining the Research Problem and the Research Objectives;

#### Unit3: Data Collection & Representation

Understanding Data and Data Types, Data Attributes, Qualitative and Quantitative Data, Graphical Techniques, Data Representation, Data Collection Methodologies, Data Collection, Data Samples, Data Summarizing;

#### Unit4: Statistics Analysis & Inferencing

Populations and Samples, Probability, Descriptive Statistics, Random Variables, Probability
Distribution, Discrete and Continuous Distributions, Univariate and Multivariate Statistics, Hypothesis
Testing, Students'-test, Chi-squared test, Analysis of variance, Regression and Multivariate Analysis.

#### Unit5: Technical Report and Thesis Writing using LaTeX

Research Proposal, Synopsis Writing, Project Proposal for Funding, Thesis Writing.

#### References:

- Kothari, Research methodology Methods and Techniques, 4<sup>th</sup>Edition, New Age International (P)Ltd.Publisher, 2014.
- 2.S.P. Gupta, StatisticalMethod,43<sup>rd</sup>Edition, Sultan Chand and Sons Publisher,2014.
- Das, Statistical Methods (Combinededitionvolume1&2),1stEdition, McGraw Hill Education Publisher, July,2017.

#### CW-102: Computer Applications

In this course, a student is expected to carry-out a project in each of the following Units. Outcome of each project should be assessed through demonstration and presentation of the work-done. In Units 3 and 4, a student is expected to gain working experience of at-least one computer language, package or tool.

#### Unit1: Documentation and Presentation of Project using LaTeX

Introductory notions, Handling errors, Formatting text and mathematics, Mathematical formula, LATEX programming, Bibliographies and indices, Producing and including graphics in LATEX file, floating bodies, Producing slides with LATEX, Post script fonts, LATEX and other mark-up languages

#### Unit2: Project using Spread sheet and Data base Management System

MS-Excel, MS-Access, Creating Data base and Tables, Forms, Entering and editing data, Finding, sorting and displaying data, Printing reports, Forms, Letters and Labels.

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Unit3: Programming Project Using a General Programming language

C, C++, Python, or other contemporary programming language.

Unit4: Computer Science Related Programming Project Using a Contemporary

Tool/Package

MATLAB/R-Programming, Network simulator, Data Mining Tools, Others

#### References:

- 1.Leslie Lamport, LaTeX, A Document PreparationSystem, 2<sup>nd</sup> Edition, Addison-Wesley Professional Publisher, July, 1994.
- Wesley J Chun, Core Python application Programming, 3<sup>rd</sup> Edition, Prentice Hall Publisher, March, 2012.
- 3.ResourcesfromInternet.

#### CW-103: Research Ethics

Unit1: Introduction to Academic Ethics

Ethics & Education; Theories in Ethics; Ethics & Quality Education

Unit2: Research Technology Ethics

Technology Developments, Impact of Technology on Society, Technological Hazards, Impact on Environment, Ethical Issues in Data Sharing; Data Privacy;

Unit3: Research & Publication Ethics

Research Ethics, Falsification & Fabrication of Data, Publication Ethics, Research citations, Ethics in Reproduction of Published material, Plagiarism;

Unit4: Scient metrics and IPR

Biblio-Metrics: Publication Quality, Quantification of Publications, Citation, Impact Factor, H & other indices, Intellectual Property & Rights

#### References:

- 1. Gregory, EthicsinResearch, 1st Edition, Continuum, Bloomsbury Publishing Plc, 2003.
- 2. Paul Oliver, The Student's Guide to Research Ethics, 2<sup>nd</sup> Edition, Open University Press, 2003.

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# Department of Microbiology Faculty of Science V.B.S. Purvanchal University, Jaunpur Course work for Ph.D. Students w.e.f. Session 2021-22

Ph. D. Course work will be conducted as per University guide line Vide Letter No. 1097/Academic/Section/ 2018 dated 08.09.2018. The Ph. D. course work will be comprised of three courses of 50 marks each are as follows-

Course 1: Research Methodology Course 2: Computer Applications

Course 3: Research Ethics

Course 1 will be evaluated based on written examination while Course 2 and Course 3 will be evaluated based on practical examination and presentation by the candidate respectively in front of Departmental Research Committee (DRC).

#### Course 1: Research Methodology

50 Marks

#### UNIT I

Objectives of Research, Research problem and techniques involved in defining a problem, steps of scientific study, formulation of hypothesis, defining sources, workable hypothesis, basic concept of research design

#### UNIT II

Survey, Case study (if required), experimental method, interdisciplinary approaches

#### UNIT III

Collection, Classification and tabulation of data, Measures of central tendency, Chi square test

#### UNIT IV

Analysis and interpretation of data, techniques of interpretation, steps of report/ review/ research paper writing, layout and preparation of report

UNIT V Studying various National R&D agencies (CSIR, ICMR, DST, DBT, UGC, ICAR, etc) to find out their priority areas and thrust areas.

#### Recommended readings:

- Research methodology: Methods and techniques by Kothari, CR(2007); New age international Ptv. Ltd.
- 2. Research Methodology by pannecrselvam, R(2007); prentice Hall India (P) Ltd.
- 3. Quantitative Methods; ICFAI University press(2004).
- Instrumental Methods of Analysis: by HH Willard, merrit, jr LL, Dean JA &Settle, jr, FA;
   CBS Publisher and distribution (1986).

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 Business Statistics by Bhardwaj, RS Excel Books. Statistical Methods by Shenoy, GV and Pant. LM(1994); MacMillan India Ltd.

## Course 2: Computer Applications

50 Marks

UNIT I Introduction to computer, types of computer and components of computer, role of computer in research

UNIT II Concept of languages, languages suitable in scientific research

UNIT III MS Office tools (access, excel, power point, word)

UNIT IV Introduction to internet, different parts of internet, application of internet

UNIT V Introduction to software. Software commonly used in scientific research (sigma-plot, enzfitter, BLAST etc.)

Recommended readings:

- Biostatistics, Computer Application and Bioinformatics (2015) V. Kumaresan, N. Arumugam, R. Sundaralingam A. Gopi, A. Meena
- Computer Applications for Life Sciences Author: Joan Harnett ISBN: 978-1-60797-418-

#### Course 3: Research Ethics

50 Marks

UNIT I: Objectives in research ethics; management of risk, the application of fundamental ethical principles.in scientific research.

UNIT II: Various aspects of academic scandal, including scientific misconducts (such as fraud, fabrication of data and plagiarism), Whistle blowing, etc.

UNIT III: The design and implementation of research involving human and animal experimentation; Animal Ethics Committees (AECs),

UNIT IV: Ethical Issues in Agricultural Research: the efficiency, equity, excellence and environmental consequences of resource and institutional management.

UNIT V: Regulations and guidelines relating to radiation or biological safety.

Recommended readings:

 Research in Medical and Biological Sciences- From Planning and Preparation to Grant Application and Publication, 1st Edition Editors: Petter Laake Haakon Benestad Bjorn R. Olsen Paperback ISBN: 9780127999432 eBook ISBN: 9780128001547 Imprint: Academic Press

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2. Textbook of Research Ethics Theory and Practice By: Sana Loue ISBN: 9781475773170

## Veer Bahadur Singh Purvanchal University Jaunpur-222003 (UP), India



**RESEARCH PROMOTION POLICY-2022** 

## Veer Bahadur Singh Purvanchal University, Jaunpur Research Promotion Policy

V B S Purvanchal University (VBSPU) is committed to establish itself as a leading research institution by promoting research in University campus and create conducive environment for its faculty and students to conduct the directed research in the University. To accelerate the growth, it is decided to reward its most productive researchers with handsome incentives, to increase the research outcome, the number of publications and patents as well as expand its research infrastructure.

The V B S Purvanchal University, Research and Development policy has been modified with the following objectives.

- To create, strengthen and maintain state-of- the-art research infrastructure in the V B S Purvanchal University campus to facilitate cutting-edge research activity.
- To facilitate inter and multi- disciplinary research
- To recognize both faculty and students on their research output by a research award
- To set up incubation facilities to promote innovation, entrepreneurship and encourage startups.
- To integrate research activities with the thrust areas of research of the university which are drawn keeping in view the local, regional and national needs, present and future, and also sustainable development goals (SDGs).
- To translate new knowledge, technology, innovations emerging out of the research at University into products, processes and services for benefit of the society.
- Protection of Intellectual Property Right (IPR) arising out of the research conducted by the university fraternity.
- · To create quality human resources for scientific research

#### Custodian of the Policy:

The implementation and updating of Research Policy shall be carried out by a **Research Advisory Board**, constituted by Honourable Vice Chancellor. Research Advisory Board will advise and supervise research related matters of the university.

Research and Development Support Schemes for promotion of research environment in the campus/University:

#### (a) Research Award

V B S Purvanchal University recognizes the research carried out by its faculty members by granting "Best Research Awards" (Three awards/year) for publishing papers, contribution to hindex of the university, through funded projects, and patents. Under this scheme, scholars will get a certificate of appreciation (CoA). The screening for best research award will be made by

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Research Advisory Committee on the basis of number of papers published and highest SCI

(b) Financial Support for Journal Publications :

Partial financial support is given to faculty members who like to publish their work in Open Access and peer reviewed journals with impact factor (SCI journals).

• Financial support for the open access fee is open to all the faculty members of V B S Purvanchal University guiding full-time research scholars.

 Only quality open access journals with impact factor will be considered. Journals with no impact factor will not be considered.

 The decision to support open access journal fee will be decided by Research Advisory Committee.

 Once the paper is accepted, the faculty shall submit the application along with copy of the research paper and invoice to the Research Advisory Committee for the financial support.

Once the article is published, the copy of the published article and payment receipt should be submitted to the office of Research Advisory Committee, AR- academics and Finance section.

(c) Post-Doctoral Fellowship (PDF)

Post-Doctoral Fellowship (PDF) is initiated to enhance the research and innovation ecosystem of University by attracting young talented scientists with a diverse background to work on challenging and frontier areas. It provides a platform for the development of future science and technology leaders.

The duration of the fellowship will be initially for a period of 1 year, extended for 2nd and 3rd year on satisfactory performance of the PDF scholar in the half-yearly review meeting.

There is no provision for providing manpower support under this scheme. The PDF scholar is expected to undertake the research objectives by himself/herself during the entire duration of the fellowship. The PDF scholar will be reporting to the mentor/Head of the department. The PDF scholars are not eligible to receive any other fellowship from any Government or Non-Governmental source during the tenure of the fellowship.

If any PDF scholar wishes to terminate the fellowship, he/she shall inform the mentor and Head of department giving one month notice. If the candidate wants to quit before 6 months, he/she should repay 50% of stipend received till that date. University reserves the right to terminate the Fellowship at any stage if it is convinced that appropriate progress is not being made or the grant has not been utilized properly.

#### (d) Financial Support for Research Paper Presentation in National and International Conferences/ Seminars

Faculty members are eligible to get financial assistance up to Rs. 20,000/- per annum for attending National conference/seminar organized in India. For international conferences organized out of India, faculty members are eligible to get financial assistance up to Rs.1,00,000/- per annum. Financial Support Claim can be made once in two years by a faculty

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member. The selection of the faculty for financial support for paper presentation will be made by Research Advisory Committee.

A faculty member can seek reimbursement only if he/she is a presenter/first author, provided no other agency had given financial help for the same. A faculty is not eligible for reimbursement, for just chairing a session or attending the conference.

(e) Translation of research articles published in reputed journal

Research articles published in reputed journals by the faculty members should be translated in Hindi and University should allocate grants for the translation of research article translation.

(f)Minor Research Project (MRP) for Faculty Members

To promote the research environment in the University campus, the V B S Purvanchal University will provide financial assistance as Minor Research Project to teachers. This scheme will provide research support to faculty members of the University to undertake research and encourage Research Culture among teachers so as to equip them to take up challenging research activities in future career

- The maximum research grant for one project will amount up to INR 3,00,000 (Rs three lakh only).
- Project proposal should be forwarded by the Head of Department of the concerned department.
- An applicant is eligible to apply only one proposal during a call.

• Project is not transferable in any case.

- The Project period is one year from the date of sanction. If the proposed project would not be completed, an extension for completion of research project, without financial assistance may be given to Investigator on written request subject to a maximum of one year.
- No request for additional grant in excess of the sanctioned budget will be considered.
- Project is expected to be conducted by the faculty member himself or herself. Hence no manpower would be supported in the Grant.
- All research projects submitted to be properly scrutinized by a screening committee before funds are released. After finalisation of the selection procedure of the Research projects the names of the selected Investigators will be uploaded on the University website.
- Proposals submitted must be original in idea and content. Plagiarism in any form will not
  be acceptable and proposals are liable to be rejected if found plagiarized. The principal
  investigator will be solely responsible for the issues related to copyright and/or
  plagiarism of the information used in the research project.
- The Investigator has to commence the project within one month from the date of award letter
- Any proposal rejected should not be resubmitted without any substantial revision.
- A midterm evaluation of the sanctioned project will be done by the Committee, constituted by Honorable Vice Chancellor and the Investigator will have to submit and present the midterm progress reports before the committee.

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7.B.8. Purvanchal Universe

It is expected that the grantee shall submit the midterm report (after six months), final progress report (report of the research done), and utilization certificate to the IQAC through Dean/Head of Department. The Investigators are expected to settle the accounts immediately on completion of the project.

The unutilized grant if any, may be refunded immediately through demand draft drawn in favour of the Finance Officer, VBS Purvanchal University, Jaunpur.

- If any Investigator fails to complete the project, he/she has to refund the entire amount released through demand draft drawn in favour of the Finance Officer, VBS Purvanchal University, Jaunpur.
- If the University is not satisfied with the periodical progress of the research project or if it
  finds that rules are being violated, it reserves the right to terminate its grant for the
  project and ask for a refund of the amount sanctioned.
- It is mandatory to post the Executive summary of the report, research papers published under Minor Research Project on the website of the University.
- The Investigator shall acknowledge the contribution of University in the research publication of the project.
- University will not be responsible for the fact, opinion, views and findings stated in the project reports.
- Preference would be given to the faculties, who have not any running project.
- A faculty member, who once received a project grant, will be eligible to apply again after a gap of two years from the date of completion of earlier project.
- Compilation of reports of all completed projects reports in the form of a volume for each year should be done by the University.

The University should frequently update its research facilities for smooth functioning of the research projects.

Prof Avinash D Pathardikar

Prof Vandana Rai

1

## वीर बहादुर सिंह पूर्वान्चल विश्वविद्यालय, जौनपुर (उ०प्र०)

प्रेषक,

कुलसचिव, वीर बहादुर सिंह पूर्वान्चल वि०वि०, जौनपुर



केव साइट : www.vbspu.ac.in

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वूरमाष : 05452-252244

पत्रांक : ५५ ६०/ कु०स० / 2021

বিশাক : ৬৪ - ৩6 - 2 • 2/

सेवा में,

डॉ० आर०के० चतुर्वेदी, अपर सचिव, उत्तर प्रदेश राज्य उच्च शिक्षा परिषद् 619, इन्दिरा भवन, अशोक मार्ग, लखनऊ—226001

विषय – राष्ट्रीय शिक्षा नीति–2020 के प्रमावी क्रियान्वयन हेतु विश्वविद्यालय एवं महाविद्यालयाँ में विभिन्न प्रकोष्ठ स्थापित किये जाने के सम्बन्ध में।

महोदय,

कृपया उत्तर प्रदेश राज्य उच्च शिक्षा परिषद् के पत्रांक— मेमो / रा0उ०शि०प० / 15 / 2020 दिनांक 05 जून, 2021 एवं शासन के पत्र संख्या— 142 / सत्तर—3—2021—08(35) / 2020टी०सी०1 दिनांक 15 जनवरी, 2021 के पत्र के निर्देश के क्रम में राष्ट्रीय शिक्षा नीति—2020 के प्रभावी क्रियान्वयन हेतु विश्वविद्यालय विभिन्न प्रकोष्ठ स्थापित कर निम्नलिखित समिति का गठन किया गया है—

क्र.	प्रकोष्ठ का नाम	समिति
1.	उद्योग—अकादिमक एकीकरण एवं कौशल विका प्रकोष्ठ	प्रोo अविनाश पार्थडिकर (संयोजक) डॉo संदीप सिंह (सदस्य) डॉo अन्नू त्यागी डॉo विजय बहादुर मौर्या
2.	ऑनलाइन शिक्षा एवं LMS प्रकोष्ठ	प्रोo बीoबीo तिवारी (संयोजक) डॉo सौरभ पाल (सदस्य) डॉo सचिन अग्रवाल डॉo संजीव गंगवार श्रीमती करूणा
3.	शिक्षक प्रशिक्षण प्रकोष्ठ	प्रो० मानस पाण्डेय (संयोजक) प्रो० अशोक श्रीवास्तव (सदस्य) प्रो० राजेश शर्मा डॉ० धर्मेन्द्र सिंह
4.	अनुसंघान एवं विकास प्रकोष्ठ	प्रोo वन्दना राय (संयोजक) प्रोo देवराज सिंह (सदस्य) डॉo रंजनीश भारकर डॉo धीरेन्द्र चौधरी
5.	संस्थागत विकास योजना प्रकोष्ठ	प्रो0 राम नारायण (संयोजक) डाँ० सताष कुमार (सदस्य) श्री दीपक सिंह, सहा० कुलसचिव श्री अजीत सिंह, सहा० कुलसचिव
3.	एक्टिविटी क्लब	डॉ० आलोक सिंह (संयोजक) डॉ० राकेश यादव (सदस्य) डॉ० जगदेव डॉ० रिकेश डॉ० मंगला यादव

7.	भारतीय भाषा, संस्कृति एवं कला प्रकोष्ठ	डॉ० मनोज मिश्रा डॉ० पुनीत धवन डॉ० जान्हवी श्रीवास्तव डॉ० प्रवीण सिंह	(संयोजक) (सदस्य)
8.	अंतराष्ट्रीय छात्र सहायता प्रकोष्ठ	डॉ० प्रदीप कुमार डॉ० गिरघर मिश्रा डॉ० मुराद अली डॉ० झासी मिश्रा	(संयोजक) (सदस्य)
9.	दिव्यांग सहायता एवं वंचित समूह सहायता योजना प्रचार-प्रसार प्रकोष्ठ	डॉ० अजय द्विवेदी डॉ० मनीष गुप्ता डॉ० नुपुर तिवारी डॉ० श्याम कन्हैया	(संयोजक) (सदस्य)
10.	मेन्टरिंग एवं मनोवैज्ञानिक परामर्श प्रकोष्ठ	प्रो0 अजय प्रतामिसिंह डॉ० मनोज पाण्डेय श्रीमती प्रियंका सिंह डॉ० अनुराग मिश्रा	(संयोजक) (सदस्य)

भवदीय

कुलसचिव

प्रतिलिपि – निम्नलिखित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित– 1. राष्ट्रीय शिक्षा नीति–2020 के प्रभावी क्रियान्वयन हेतु विश्वविद्यालय विभिन्न प्रकोष्ठ के संयोजक एवं सदस्य।

 विशेष कार्याधिकारी कुलपति, मा० कुलपति महोदया के संज्ञानार्थ।
 बेव मास्टर को इस आशय से प्रेषित कि कृपया उक्त सूचना वि०वि० की बेवसाइट पर अपलोड करने का कष्ट करें।



## वीर बहादुर सिंह पूर्वांचल विश्वविद्यालय जौनपुर - 222003

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पत्रांक- 1322पू०वि०वि / यू०णी०सी० / 2020

Parto- 07.11.2020

#### कार्यालय-आदेश

विश्वविद्यालय के पत्रांक— 1174/पू०वि०वि०/यू०जी०सी०/2019 दिनांक— 05.03.2019 को निर्गत संस्थागत नैतिकता समिति (Institutional Ethics Committee) को संशोधनोपरान्त मा० कुलपतिजी के आदेश दिनांक— 04.11.2020 के अनुपालन में समिति निम्नानुसार है:—

<b>화</b> 0 せ0	नाम	पद एवं पता
1	सभापति (Chairperson)	संकायाध्यक्ष / वरिष्ठ आचार्य विज्ञान संकाय, वी०ब० सिंह पूर्वाचल विश्वविद्यालय, जौनपुर।
सदस	यगण	
2	बुनियादी चिकित्सा वैज्ञानिक (Basic Medical Scientist)	श्री राजीव कुमार (एम०फार्मा०), विभागाध्यक्ष फार्मेसी संस्थान, वी०ब० सिंह पूर्वाचल विश्वविद्यालय, जौनपुर।
3	चिकित्सक (Clinician)	डॉ० विकास सिंह (एम०बी०बी०एस, एम०डी०, पैथोलॉजी) स्मार्ट डायग्नोस्टिक सेण्टर, सुन्दरनगर, जौनपुर रिज0 संख्या— UPMC 75324     डॉ० निमता सिंह, (एम०बी०बी०एस, एम०डी०, गायनकोलोजिस्ट), सुमित्रा हॉस्पिटल, जौनपुर रिज0 संख्या— UPMC 74928
4	कानून विशेषज्ञ (Lega <b>Q</b> Expert)	श्री मंगला प्रसाद यादव (एल०एल०एम०), विधि संकाय वी०ब० सिंह पूर्वीचल विश्वविद्यालय, जौनपुर।
5	सामाजिक वैज्ञानिक (Social Scientist)	डॉ० कमलेश पाल (एम०ए०, एम०फिल०, पी०एच—डी०) सहायक आचार्य, ह्यूमैनिटिज एण्ड सोशल साइंस, यू०एन०एस०आई०टी०, वी०ब० सिंह पूर्वांचल विश्वविद्यालय, जौनपुर।
6	दार्शनिक / एथिसिस्ट / थीयोलोजियन (Philosopher/Ethicist/Theologian)	प्रो० अजय प्रताप सिंह (एम०ए०, एम०फिल०, पी०एच—डी०) विभागाध्यक्ष, अनुप्रयुक्त मनोविज्ञान वी०ब० सिंह पूर्वीचल विश्वविद्यालय, जौनपुर।
7	सामान्य जन (Lay Person)	डॉ० डी०पी० सिंह शिवांगी पैथालाजी, जौनपुर।
8	सदस्य-सचिव (Member Secretary)	सहायक कुलसचिव, प्रशासन, वीर बहादुर सिंह पूर्वीचल विश्वविद्यालय, जौनपुर।

सन्दर्भित समिति से यह अपेक्षा की जाती है कि उक्त से संज्ञानित होकर अग्रेत्तर कार्यवाही कर मा० कुलपतिजी को अवगत कराने का कष्ट करें।

> भविषयः ०६(४) २० कुलसंधिव

प्रतिलिपि- निम्नलिखित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित-

1. उपरोक्त समिति के सदस्यगण को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।

2. विशेष कार्याधिकारी कुलपति, मा० कुलपतिजी के आदेश दिनांक- 04.11.2020 के अनुपालनमें संज्ञानार्थ।

3. निजी सहायक वित्त अधिकारी, वित्त अधिकारी महोदय को सूचनार्थ।

4. वेब मास्टर को उपरोक्त कार्यालय आदेश विष्युविद्यालय वेबसाइट पर अपलोड किये जाने हेत्।

## The Institutional Ethics committee (IECs) Veer Bahadur Singh Purvanchal University, Jaunpur

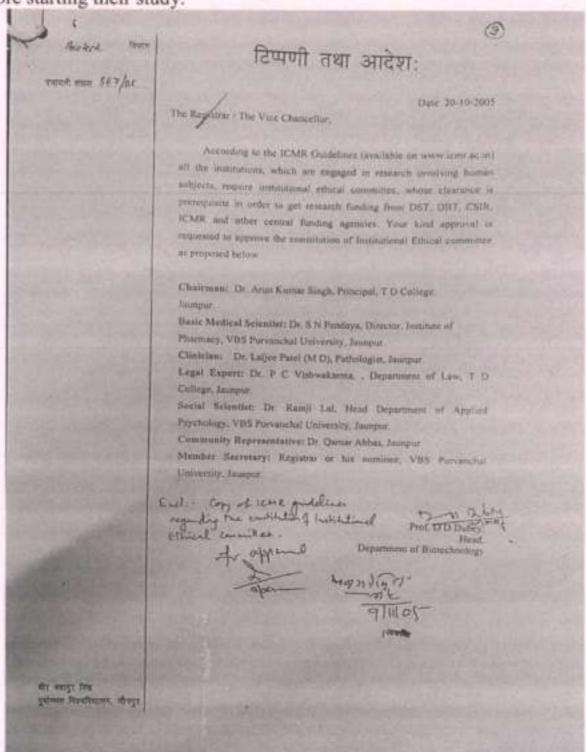
According to ICMR guidelines (available on <a href="www.icmr.ac.in">www.icmr.ac.in</a>) all the institutions, which are engaged in research involving human subjects, require institutional ethical committee, whose clearance is prerequisite in order to get research funding from DST, DBT, CSIR, ICMR and other central funding agencies. The Institutional Ethics Committee of Veer Bahadur Singh Purvanchal University was constituted in 2005 as per the guidelines of the ICMR.

#### Objectives:

1. To protect the rights, safety and well-being of the research participants.

To ensure that all participants are aware about the aim of the study, pros and cons for their participation in the study and have given appropriate InformedWritten Consent.

All research projects involving humans' subjects should get the approval of the Institutional Ethics Committee before starting their study.



## Ethical Guidelines for Biomedical Research on Human Subjects



## INDIAN COUNCIL OF MEDICAL RESEARCH NEW DELHI

2000

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V.B.S. Purvanchal University

## Proceedings of the meeting of The Institutional Ethics committee (IECs)

~	
	A meeting of Institutional Ethical Committee
	of VBS Revanchal University Janque was
	held on 27.04.07 at 4.00 pm in the
	Semines hall of faculty building. The
	following members were present.
	1. De Arun Kumer Singh Chairmen May - 2. Dr. P.C. Vishnakarna Member DMAn. 3. Dr. Daney Abbas " Olyo
	2 Dr P.C. Vishnakarna Member Al William
	1 2 1 1 0 1 1
-	" "
18	5 De Ranjee Lal Ver
	6. Dr. S. N. Bardey Secretary (Registrer Nomine) &
	After hearing the following projects ( research)
	1. Population study of CG777 motation of MTHER gene
	as material Kesk factor for come genelic delects
	2. Morecuras Study of Pragile X Sundrome in O.P. popular
I SHOW	3. Study of sickle Cell Ahemie and its selationship
	But a Trafactiones and Relationes 13 from the
	" Make cular Epidemiological Study of genetic modifier
die e	LAN SERVICE LA POPULARION
	5. Malecular study of some gentle defects in
	easur U.F. population.
	6. Demographic study of maternal A66G and C6777 allely
	Fish factor for Down syndrome & other mental disorde
	7 Karyological study of some gentic defects in exten UP po 8 Grenetic polymerphism of sed blood cell engines 2 antigo
1	in U.P. population.
	9. Chromosomal qualysis of-Halescomia critarily
4	the committee decided to give "No objection
-	the committee dicioled to give "No Objection Certificates" after discurring various othical usines of the
-	proposed projects. 9 c my Owing
1	with the wind
	and the second s

#### The Institutional Ethics committee (IECs)



## वीर बहादुर सिंह पूर्वाचल विश्वविद्यालय जौनपुर - 222003

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Neder 07-11-2020

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## कार्यालय-आदेश

विश्वविद्यालय के पत्राक- 1174/पू०वि०वि०/यू०जी०सी०/2019 हिनांक- 05.03.2019 को निर्गत संस्थागत नैतिकता समिति (Institutional Ethics Committee) को संशोधनीपरान्त माठ कुलपतिजी के आदेश दिनाक- 04.11.2020 के अनुपालन में समिति निम्नानुसार है-

10	नाम	पद एवं पता
0	सभापति (Chairperson)	संकायाध्यक्ष / वरिष्ठ आचार्य विज्ञान संकाय वी०४० सिंह पूर्वाचल विश्वविद्यालय जीनपुर ।
उदर	वगण	1 S S model sineta
	युनियादी चिकित्सा वैज्ञानिक (Basic Medical Scientist)	श्री राजीव कुमार (एम०कार्मा०), विभागाध्यक्ष कार्मेसी संस्थान वीठम० सिंह पूर्वाचस विश्वविद्यालय जीनपुर।
3	fafarero (Clinician)	डॉ० विकास सिंह (एम०बी०बी०एस. एम०बी० वैद्योलीजी)     स्मार्ट डायग्गोरिटक संण्टर, सुन्दरनगर, जीनपुर     रणि० संख्या- UPMC 75324     डॉ० निमता सिंह. (एम०बी०बी०एस. एम०डी०     गायनकोलोजिस्ट), सुमित्रा हॉस्पिटल, जीनपुर     रणि० संख्या- UPMC 74928
4	कानून विशेषश्र (Lega <b>Q</b> Expert)	श्री मगला प्रसाद पादव (एल०एल०एम०), विधि संकाय वी०४० सिंह पूर्वोचल विश्वविद्यालयः जीनपुरः।
5	सामाजिक वैज्ञानिक (Social Scientist)	डॉ० कमलेश पाल (एम०ए०, एम०फिल०, पी०एच—डी०) सहायक आचार्य, हयूमैनिटिज एण्ड सोशल साइस यू०एन०एस०आई०टी०, यी०६० सिंह पूर्वीचल विश्वविद्यालय जीनपुर।
6	टागनिक / एथिसिस्ट / धीर्यालोजियन (Philosopher/Ethicist/Theologian)	प्रीठ अजय प्रताय सिंह (एम०ए०, एम०फिल०, पी०एय+डी०) विभागाध्यक्ष, अनुप्रयुक्त मनीविज्ञान जीवमा सिंह पर्योचल विश्वविद्यालय जीनपुर।
7	सामान्य जन (Lay Person)	डॉ० डी०पी० सिंह शिवांनी पेथालाजी, जीनपुर।
8	The state of the s	सहायक कुलसचिव, प्रशासन वीर बहादुर सिंह पूर्वीच विश्वविद्यालय, जीनपुर।

सन्दर्भित समिति से यह अपेक्षा की जाती है कि उक्त से संज्ञानित होकर अग्रेत्तर कार्यवाही कर मा० कुलपतिजी को अवगत कराने का कष्ट करें।

प्रतिलिपि- निम्नलिखित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित-

। उपरोक्त समिति के सदस्यगण को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।

2 विशेष कार्याधिकारी कुलपति माठ कुलपतिजी के आदेश दिनांक- 04.11.2020 के अनुपालनमें संज्ञानार्थ।

निजी सहायक वित्त अधिकारी वित्त अधिकारी महोदय को सूचनार्थ।

4 वेड मास्टर को उपरोक्त कार्यालय आदेश विश्वविद्यालय वेबसाइट पर अपलोड किये जाने हेतु।

कुलसंधिव

विधारिकजी लॉजी विमान

प्रवासनी संख्या

## टिप्पणी तथा आदेशः

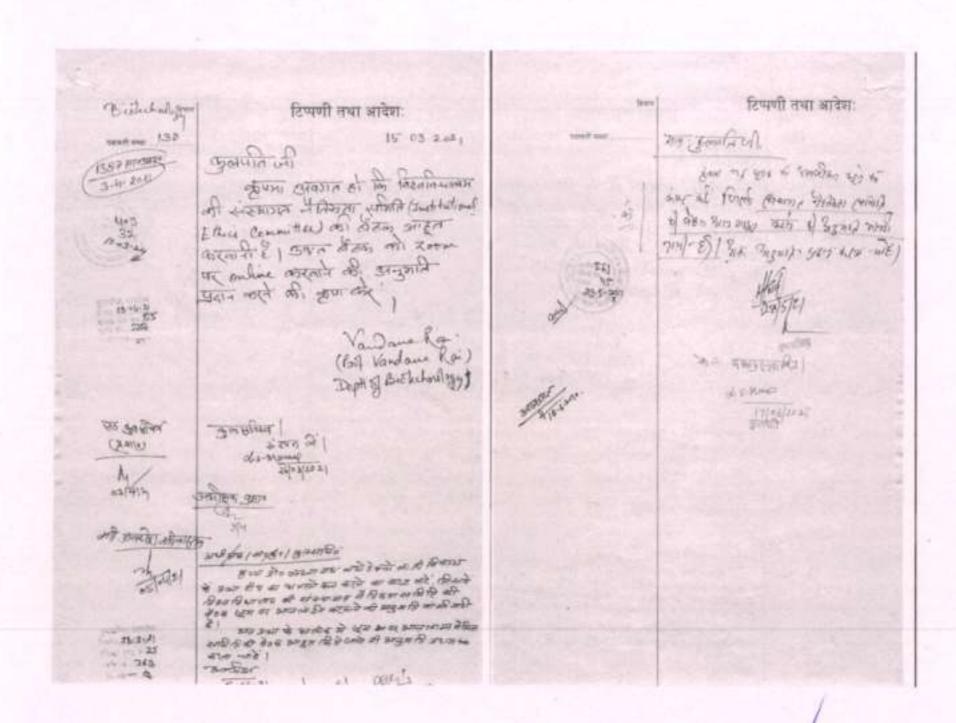
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स्नित (स.कु.) संस्थात्रत नैतिकता समिति (Institutional Ethics Committee)

अवगत है। कि बायोरे ज्ञां विभाग की ह्यूमा मीरिक्यू लेट में सेरिक्स (Human Moletular Genetics) ने बोर्स कर रहे शिक्षको और्धा हानो रूव स्नातको तर हान्नो के श्रोह्म / प्रामेकर संबंधी प्रयोश की संस्थागत मेंतिकता समिति ( Institutional Ethics Committee (TEC) से अनुमति लेमा आवश्यक होता है।

अतः संस्थागत सेतिकता समित (Institutional Ethics Committee (IE)) की बैडक की स आहुत कर्वाने का कहर की।

रिकार अग्रह का की के किया की जी



## Institutional Ethics Committee Meeting VBS Purvanchal University, Jaunpur (UP)

Date: Aug 14-08-2021 Time: 03:00 PM



#### Zoom meeting.

Topic: Institutional Ethics Committee meetingTime: Aug 14, 2021 03:00 PM India. Join Zoom Meeting https://us04web.zoom.us/j/77857460287?pwd=QUxkeUI5bHZqUUVqSWVxZytxNkIwUT09Meeting ID: 778 5746 0287Passcode: EQD1we

## **Institutional Ethics Committee Meeting** VBS PurvanchalUniversity, Jaunpur (UP) Meeting Proceedings Date: Aug 14-08-2021 Time: 03:00 PM

#### Meeting Proceedings

Date: 14-08-21

An online meeting of Institutional Ethics Committee of V B S Purvanchal University, Jaunpur was held at 3.00 pm Zoom platform. The following members were present in the meeting-

- 1. Prof Ram Naraian, Chairperson
- 2. Dr Rajeev Kumar, member
- 3. Dr Vikas Singh, member
- 4. Dr Namita Singh, member
- 5. Shri Mangla Prasad Yadav, member
- 6. Dr Kamlesh Pal, member
- 7. Prof Ajay Pratap Singh, member
- 8. AR-Administration, member secretary

Following projects (research) from Biotechnology and Psychology departments were presented before the committee-

#### Human Molecular Genetics Laboratory, Department of Biotechnology

- 1. Molecular study of COMT Val158Met and DRD2 Taq1 polymorphisms in Eastern Uttar Pradesh population
- 2. Molecular Study of MTHFR gene C6771 and MTR gene A2756G polymorphisms in Alcoholics and Tobacco Users
- 3. Screening of Vitamin D receptor gene polymorphisms in the osteoporosis patients
- 4. Molecular analysis of COMT, DRD2, DAT1 and SERT genes polymorphisms as a risk factor for alcohol dependence in Uttar Prudesh Population
- 5. Molecular study of VDR Fokl polymorphism in Tuberculosis patients of Eastern Uttar Pradesh
- COVID-19 genomics and surveillance in India
- Study of Glucose 6 phosphate dehydrogenase deficiency in India
- Molecular study of Addiction Candidate Gene Polymorphism Analysis in Eastern UP population

9. Molecular screening of vitamin D receptor polymorphisms (Fok1 And Bsm1) and bone mineral density in rural population of Eastern Uttar Pradesh

Registrar V.B.S. Purvanchal University Jaunput

- Public awareness regarding importance of vitamin D, deficiency and health consequences among women of Eastern Uttar Pradesh Population
- Increase awareness, knowledge of folate, vitamin B12 deficiency consequences and dietdisease association in rural women population of Eastern Uttar Pradesh
- Molecular screening of recurrent pregnancy loss susceptibility genes FVL, PTG, MTHFR, MTRR, TCII And RFC-1 Polymorphism in Eastern UP Population
- Molecular analysis of COMT Val158Met and DRD2 Taq1A, Taq1B and Ser311Cys polymorphisms in eigarette and bidi smokers of Eastern Uttar Pradesh Population
- 14. Study of Schizophrenia Candidate Gene Polymorphism
- Molecular study of IRS-1 and PC-1 gene polymorphisms in Type II diabetes patients of Eastern Uttar Pradesh
- 16. Vitamin D receptor polymorphism and depression risk
- 17. Vitamin D deficiency and infectious diseases
- 18. COVID 19: Role of vitamins and minerals
- 19. Gene polymorphism and COVID 19 severity
- 20. Vitamin D deficiency and cancer susceptibility
- 21. Vitamin D deficiency and COVID 19 susceptibility
- 22. COVID 19 and risk factors
- 23. COVID-19 and Diabetes
- 24. COVID-19 and acute kidney injury
- 25. Post COVID 19 Complications
- 26. COVID-19 and Heart disease
- 27. COVID-19 and Cardiovascular disease
- 28. Association of ABO and Rh blood groups with Fatty Liver Disease
- 29. ABO and Rh blood group typing in Uttar Pradesh population
- 30. Association of ABO and Rh blood groups with malaria
- 31. Association of ABO and Rh blood groups with Cancer
- 32. Association of ABO and Rh blood groups with COVID 19 susceptibility
- 33. Molecular study of NQO1 gene polymorphism in Eastern Uttar Pradesh population
- 34. Molecular study of BDNF gene Val66Met polymorphism in Eastern Uttar Pradesh population

Department of Psychology

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- 35. Assessing the consequences of emotional maturity among adolescent: role of Emotional intelligence and family environment.
- 36. Assessment of the effectiveness of emotional regulation therapy and mindfulness based cognitive therapy in anxiety and depression patients: an intervention based study.

After hearing the above projects (research) from Biotechnology and Psychology departments, and after discussing various ethical issues of the proposed projects, the committee decided to give "No objection Certificate" to these projects.

Shri Mangla Prasad Yadav

Member

Dr Kamlesh Pal Member

Dr Rajeev Kumar

Member

Dr Namita Member

DR-Administration

Member Secretary

V B S Purvanchal University

Prof Ajay Pratap Singh

Member

Dr Vikas Singh

Member

Prof Ram Naraian

Chairperson (IEC)

Dean, Faculty of Sci.

V B S Purvanchal University

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## Research Paper Published of the study conducted after the approval of The Institutional Ethics committee (IECs)Veer Bahadur Singh Purvanchal University



### Cellular and Molecular Biology

E-ISSN: 1165-158X / P-ISSN: 0145-5680

CM B

Original Research

www.cellmolbiol.org

Prevalence of COMT Val158Met polymorphism in Eastern UP population

P. Kumur, U. Yaday, V. Rai\*

Human Molecular Genetics Laboratory, Department of Biotechnology, VBS Parvanchol University, Jumpur-222003, Utar Prodesh, India

Correspondence to: non-industriculational con-

Received Murch 30, 2016: Accepted May 15, 2017. Published July 71, 2017.

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Abstract: Catechel-O-methylitemeferase (COMT) is an abundant S-ademosylmethousing (SAM-)-dependent methyltemeferase that methylates entechel compounds, including extechalaments and catechelestrogens COMT graw located at chromosome 22q11.2 contains a functional polymorphism at codes 128(Val-185Met), which has been related to psychiatric discusses and different types of concer. COMT might affect filely levels because as a by-gradual it converts SAM to S-ademosylhomosystemic (SAM), which is recentledy span until as homocystemic. The size of the present study was to determine the inspectory of COMT Val15Met polymorphism in scheduled costs (9C) population of Jampus district. Total 100 healthy marked subjects belonging to SC, between the age group of 18 to 76 years were transformly selected for the present study. 3 and blood samples were collected from each subject. The inclinion criteria of subjects for present study are that they should be democile of Utter Prodesh, and healthy without my individual family history of genetic or metabolic disorders. COMT Val156Met polymorphism study is was done by PCR-RFLP method. The Val Val generape was found at 48 subjects. Val Val allele non-frond to be 0.68 and Met allele frequencies of Val Val, Val Val, Val Met and Met Met allele frequency of Val allele non-frond to be 0.68 and Met allele frequency was 0.32.

Key words: Catechol-O-methyltransforms; COMT, Val155 Met, Genotype; Allele: Enstern UP.

#### Introduction

Catechol-O-methyltransferase (COMT) is an intracellular methylation enzyme that catalyzes the first step of the dopumine degradation pathway and inactivates catecholamines, which include dopamine, epinephrine, and norepinephrine. It is accepted widely that COMT plays a crucial role in modulating nerve function and physiology, due to its broad distribution throughout the brain and various peripheral tissues. COMT enzyme occurs in two distinct isoforms: a smaller soluble protein in the cytoplasm (S-COMT: 221 aa) and a longer membrane-bound isoform (MB-COMT 271 aa) (1). The MB-COMT is predominantly expressed in brain neurous, while the S-COMT is predominantly expressed in blood cells and tissues like liver and kidney (1).

The COMT gene is located on chromosome 22q11.1-q11.2 and contains six exons. A single base pair change (G471 A) in exon 4 of the COMT gene, at position 472 in the long mRNA, and 322 in the short mRNA, results in an amino acid change (Val--> Met), at codon 158 of MB-COMT and codon 108 of S-COMT. which decreases the activity level of the COMT enzyme 3 to 4 fold (2,3). In addition to being a functional polymorphism, this SNP also creates a polymorphic NIaIII restriction site in the DNA. The two alleles are referred to as Val or COMT\*H, or the NlaIII site-absent (G; Val) allele that encodes the thermostable, high activity enzyme and Met or COMT\*L, or the NlallI site-present (A; Met) allele that encodes the thermolabile, low activity enzyme (3,4,5). Presence of a methionine at position 158 decreases the thermostability of COMT

and reduces the activity of the enzyme to 25% of that of the COMT 158-Val enzyme, which leads to diverse changes in cognitive function and human physiology (6). Both the alleles are co-dominant, individuals having Val/Met genotype have an intermediate level of COMT activity in comparison to homozygous (Val/Val) individuals (3). Very limited data about COMT Val158Met mutation frequency are available from Indian population, and no data are available about Uttar Pradesh population; hence, the aim of the present study is to estimate frequency of COMTVal158Met polymorphism in healthy individuals of Eastern Uttar Pradesh.

#### Materials and Methods

3 ml blood samples were collected from randomly selected 100 unrelated healthy individuals belonging to scheduled easte (SC) population of Eastern Uttar Pradesh belonging to both the genders (50 males and 50 females). All subjects were between the age group of 18-70 years. All subjects gave their informed written consent and the study was approved by the Institutional Ethics Committee of VBS Purvanchal University, Jaunpur. A questionnaire was used to collect demograhistory. The inclusion criteria of subjects were- (i) subjects should be domicile of Eastern Uttar Pradesh, (ii) subjects shoul be belong to scheduled caste, (ii) subjects should be healthy, without any individual/ family history of genetic disorder and (iv) subjects should be unrelated and randomly selected from the Eastern UP population.

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