

# ABHILASHI UNIVERSITY

CHAILCHOWK (CHACHYOT) DIST. MANDI (H.P.) 175028

PH: 01907-250107, 01907-250108, 9118006520, 9816700520, 9816005139

Proceedings of the meeting held with all Deans, HODs and Ph.D. Supervisors of Abhilashi University, Chail-Chowk (Chachyot) Mandi, Himachal Pradesh

A meeting of all Deans, HODs and Ph.D. Supervisors of the Faculties of Abhilashi University with ongoing Ph.D. programme was held on 21.11.2020 at 11:00 AM.

Following members were present:

1. Dr. Amit Chaudhary  
Dean, Faculty of Pharmacy, Abhilashi University
2. Dr. Jyoti Sondhi  
HOD and Ph.D. supervisor, School of Management, Abhilashi University
3. Dr. Reena  
HOD and Ph.D. supervisor, School of Education, Abhilashi University
4. Dr. Jyotika Brari  
HOD and Ph.D. supervisor, School of Basic Sciences, Abhilashi University
5. Dr. Parikshit Sharma  
Dean, Student Welfare, Abhilashi University

In the meeting following points were discussed and decisions taken:

Item No. 1: Implementation of a Paper entitled "Research and Publication Ethics (RPE)" for all Ph.D. students for Pre- registration course work

As per the UGC letter no. D.O. No. F.1-I 2018 (Journal Care) on December 2019, it is mandatory to introduce a course for awareness about publication ethics and misconduct entitled "Research and Publication Ethics (RPE)" for all Ph.D. students during their Pre- registration course work. In view of above, all members agreed to introduce this paper in course work (session 202-21 onwards) for all Ph.D. students enrolled for Ph.D. programme in this university. The syllabus of the course was split unit wise into four units. All members agreed to allot course code number AURPE-04 with four credits. The detailed syllabus of the proposed paper as approved by all members is attached herewith for consideration and to be placed before the Academic Council for approval.

Confirmed

Dr. Amit Chaudhary  
Dean,  
Faculty of Pharmacy

Dr. Jyoti Sondhi  
HOD, School of Management

Dr. Reena  
HOD, School of Education

Dr. Parikshit Sharma  
Dean, Student Welfare

Dr. Jyotika Brari  
HOD, School of Basic Science

Director Research  
Abhilashi University

Encls. No. AC Res. 2020-21 166/167

Copies endorsed to the following:

1. P.Y to AC for the kind information of Hon'ble VC please

Dated: 25.11.2020

Received  
7.12.20

Director Research

## RESEARCH AND PUBLICATION ETHICS

<b>Name of Course</b>	<b>Research and Publication Ethics</b>	
<b>Course Code</b>	<b>AURPE - 04</b>	
<b>Total Credits</b>	<b>04</b>	
<b>Examination</b>	<b>External</b>	<b>Internal</b>
<b>Maximum Marks</b>	<b>60</b>	<b>40</b>

### Theory & Practice

#### Unit-I Philosophy and Ethics

Introduction to philosophy: Definition, nature and scope, concept, branches  
Ethics: definition, moral philosophy, nature of moral judgments and reactions. Publication Misconduct: Group discussions: subject specific ethical issues, FFP, authorship, conflicts of interest, complaints and appeals: example and fraud from India and abroad

#### Unit-II Scientific misconduct

Ethics with respect to science and research; Intellectual honesty and research integrity; scientific misconducts: falsification, fabrication, and plagiarism (FFP); redundant publications: duplicate and overlapping publications, salami slicing; selective reporting and misrepresentation of data. Software tools: Use of plagiarism software like Turnitin, Urkund, and other open access software tools.

#### Unit-III Publication Ethics

Definition, introduction and importance, Best practices/ standards setting initiatives and guidelines: COPE, WAME, etc. Conflicts of interest; publication misconduct: definition, concept, problems that lead to unethical behavior and vice versa, types; violation of publication ethics, authorship and contributorship; identification of publication misconduct, complaints and appeals; Predatory publishers and journals. Databases and Research Metrics: Databases: Indexing databases, Citation databases, web of science, Scopus, etc.

#### Unit-IV Open access publications

Open access publications and initiatives; SHERPA/RoMEO online resources to check to check publisher copyright & self-archiving Policies; Software tool to identify predatory publications developed by SPPU; Journal finder/ journal suggestion tools viz. UGC care listed journal, Elsevier Suggested journal finder, Springer journal suggester, Impact factor of journal as per journal citation report, SNIP, SJR, IPP, Cite Score; Metrics: h-Index, g-Index, i-10 index, Publons, Google Scholar etc.

*Handwritten signatures:*  
Amitan  
Bharna  
R. F.  
Jyotika

## References

- Bird, A. (2006). *Philosophy of Science*. Routledge.
- MacIntyre, Alasdair (1967) *A Short History of Ethics*. London.
- P. Chaddah, (2018) *Ethics in Competitive Research: Do not get scooped; do not get plagiarized*, ISBN:978-9387480865
- National Academy of Sciences, National Academy of Engineering and Institute of Medicine. (2009). *On Being a Scientist: A Guide to Responsible Conduct in Research: Third Edition*. National Academies Press.
- Resnik, D. B. (2011). What is ethics in research & why is it important. *National Institute of Environmental Health Sciences*, 1–10. Retrieved from <https://www.niehs.nih.gov/research/resources/bioethics/whatis/index.cfm>
- Beall, J. (2012). Predatory publishers are corrupting open access. *Nature*, 489(7415), 179–179. <https://doi.org/10.1038/489179a>
- Indian National Science Academy (INSA), *Ethics in Science Education, Research and Governance*(2019), ISBN:978-81-939482-1-7. [http://www.insaindia.res.in/pdf/Ethics\\_Book.pdf](http://www.insaindia.res.in/pdf/Ethics_Book.pdf)

## Useful websites

1. <https://shodhganga.inflibnet.ac.in/handle/10603/203204?mode=full>
2. <https://shodhgangotri.inflibnet.ac.in/>
3. <https://link.springer.com/>
4. <https://link.springer.com/books/a/1>
5. <https://www.elsevier.com/books-and-journals/elsevier>  
<https://www.emeraldgroupublishing.com/our-services/authors/research-publishing-ethics>

# ABHILASHI UNIVERSITY

CHAIL CHOWK, TEHSIL CHACHYOT, DISTT. MANDI (H.P.)

## FACULTY OF EDUCATION



### Structure and Syllabus for Ph.D. Course work under Faculty of Education

With effect from the Academic Session 2017-18

(Subject to Change from time to time)

  
Dean  
Faculty of Humanities, Edu. & B.Sci.  
Abhilashi University, Chail Chowk,  
Tehsil Chachyot, Distt. Mandi (H.P.)

## COURSE-I (AUPHEDU-101)

### PHILOSOPHICAL AND SOCIAL FOUNDATION OF EDUCATION

#### Course Objectives

- After the completion of this course the students will be able to describe the Philosophical Perspectives of Education.
- Understand Education as the discipline and the aims of Education, basic tenants of varying thoughts of Indian Philosophical Schools and their implication for improving the present system of Education in the country.
- To develop depth understanding about contemporary Indian Education system.
- To develop the knowledge about Indian thought and its contribution to educational practices
- To develop the knowledge about social change.
- To enable the students to understand the concept of Educational Sociology and Sociology in Education.

#### Unit 1. Education and Philosophy


Concept, Nature and Scope of Education and Philosophy, Relationship of Education and Philosophy, Indian and Western Concept of Education, Philosophical Analysis/Analytical meaning or salient features of Education, Education in the light of Pillars of Education, Aims of Education in Contemporary Indian Society, Characteristics of Philosophy and Branches of Philosophy: Metaphysics, Epistemology, Axiology, Logic and Aesthetics – their meanings, sub-branches and relevance for education. Education as the Dynamic side of Philosophy.

#### Unit 2. Contribution of Schools of Thought to Educational Practices

Ancient Indian, Buddhist, Medieval and Modern thoughts and its contribution to Education practices. Philosophical Schools of Thought: Idealism, Naturalism, Realism, Pragmatism, Existentialism- meaning, basic postulates/assumptions and educational implications for aims, curriculum, methods of teaching, concept of discipline, the role of teacher and institutional settings.

#### Unit 3. Indian Philosophy and Constitutional Provisions for Education

Systems of Indian Philosophy (Shad Darshan): Sankhya Philosophy, Nyaya Philosophy, Vaisesika Philosophy, Mimansa Philosophy and Vedanta Philosophy- their chief features, Metaphysics, Epistemology, Axiology and Observations. The Constitution of India, Preamble, Educational Provisions in Indian Constitution, Importance of the articles of the constitutions and their bearing on the National System of Education, Equal Opportunities in Education, access and reservation in Education, Meaning, Nature, Purposes and Analysis of Directive Principles of State Policy.

  
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Morris L. Bigge, (1982). Educational Philosophies for Teachers, Charles E. Merrill USA: Publishing Company – A Bell & Howell Company.

Ozmon, Howard, A. and Craver, Samuel, M. (1990). Philosophical Foundations of Education, USA: (Fourth Edition), Columbus, Toronto, London, Melbourne, Merrill Publishing Company.

Ozmon, Howard, A. (2012). Philosophical Foundations of Education (Ninth Edition), USA: Pearson Education, Inc., 501 Boylston Street, Suite 900, Boston, M.A, 02116, USA.

Pachaury, Girish. (2006): Udayman Bharatiye Samaj main Shikshak. Meerut: International Publishing House.

Pandey, K.P. (1983). Perspectives in Social Foundations of Education, Ghaziabad: Amitash Prakashan.

Pandey, K.P. (2005): Shiksha ke Darshnik Evam Samajik Aadhar (First Edition), Vranasi: Vishwavidhayalaya Prakashan, Chowk.

Pandey, Ramshakal, (2005): Teacher in Developing Indian Society, Agra: Vinod Pustak Mandir Dr. Rangeya Raghava Marg, Agra-2.

Pandey, Ramshakal, (2005). Udayman Bharatiye Samaj main Shikshak, Agra: Vinod Pustak Mandir, Agra-2.

Phillips, R.C. and Stalcup, R. J. (1968). Philosophic Systems and Education, USA: Charles E. Merrill Publishing Company, Columbus, Ohio, A Bell and Howell Company, USA.

Saxena, N.R. Swarup and Dutt, N. K. (2008). Philosophical and Sociological Foundation of Education, Meerut: Lal Book Depot.

Sharma, Santosh, (2006). Constructivist Approaches to Teaching and Learning (Hand Book for Teachers of Secondary Stage). New Delhi: National Council of Educational Research and Training.

Sinha, J.N. (2002). Introduction to Philosophy, Calcutta: New Central Book Agency.

Sri Aurobindo (1924). A System of National Education. Calcutta: Arya Publishing House.

Taneja, Vidya Ratna, (1998). Educational Thought and Practice. New Delhi: Sterling Publishers Pvt. Ltd.

Walia, J.S. (2012). Education in Emerging Indian Society (Edition 2012); Ahim Paul Publishers, Copal Nagar, Jalandhar City (Punjab).

Wingo, Max G. (1974). Philosophies of Education: An Introduction. New Delhi: Sterling Publishers Pvt. Ltd.

### Unit 3. Methods of Research

Historical Research: Meaning, nature, importance and steps involved Primary and Secondary Sources of Data, External and Internal Criticism of the data sources. Descriptive Research Method: Meaning, Importance, Steps and Types of Descriptive Research Studies (Survey Studies, Developmental Studies and Case Study). Experimental Research Method: Meaning, Importance, Steps and Components of Experimental research, Methods of Controlling of Extraneous Variables. Experimental Designs: One group Pre test- Post test design; Factorial Design (2x2); Quantitative Vs Qualitative Research, Ethnographical Research, Mixed Method Research, Interdisciplinary Approach to Educational Research.

### Unit 4. Data Analysis and Preparation of Research Report

Tabulating Data, Ways of Organizing and Presenting Data, Validation and Interpretation of Qualitative Data. Content Analysis, Discourse Analysis, Documentary Analysis, Analysis of Observation Based and Interview based Data. Parametric and non parametric statistics. Concept of degrees of freedom, levels of significance and their use in interpretation of results. Non-parametric statistics such as Chi Square ( $\chi^2$ ). Univariate and Bivariate Analysis – Analysis of variance (One Way and Two Way Analysis of variance). Parameter Estimation, Correlation, Regression. Multivariate Analysis: Multiple Regression – Multiple R; Canonical R, Factorial MANOVA, MANCOVA. Steps in preparation of Research Report. Style of referencing in APA, Academic Paper Writing.

### Suggested Readings:

Aggarwal, L.P. (2007). Modern Educational Research. New Delhi: Dominant Publishers and Distributors.

Best, J.W. & Kahan J.V. (2005). Research in Education. New Delhi: Prentice Hall of India Pvt. Ltd., 9th Edition.

Best, John W. (1995). Research in Education. New Delhi: Prentice Hall.

Bhandarkar, P.L., Wilkinson, T.S. & Laldas, D.K. (2004). Methodology and Techniques of Social Research. Mumbai: Himalayan Publishing House.

Oppen, Louis, Mansion, Lawrence & Morrison, Keith (2011). Research Methods in Education, 7th Edition. India: Cambridge University Press, Private Limited.

## COURSE-III (AUPHEDU-103)

### TEACHER EDUCATION

#### Course Objectives

- After completion of this course the students will be able to understand the concept and scope of Teacher Education in India with the Historical Perspectives.
- Understand the Concept, Development and Agencies of Teacher Education.
- Understand the Aims and Objectives of Teacher Education at Elementary and Secondary Levels.
- Understand the Recommendations of Various Commissions for Teacher Education and Role of NCTE.
- Understand the Different Teacher Education Programmes and their Utility.
- Understand the Current scenario of Teacher Education in India.
- Understand the Problems of Teacher Education in India.
- Understand the Issues, Problems and Innovative Practices in Teacher Education.
- Research and Professionalism in Teacher Education.

#### Unit 1. Teacher Education – Concept, Development, Agencies

Meaning, Nature, Aims, and Scope of Teacher Education; Objectives of Teacher Education at Elementary and Secondary Level. Changing Context of Teacher Education in Indian as well as Global Scenario. Historical development of Teacher Education in India during (Ancient, Medieval and British). Agencies of Teacher Education: BRC, CRC, DIET's, SCERT, UGC, NCTE, NCERT and University Department of Education, their Role and Functions.

#### Unit 2. Teacher Education - System and Structure

Structure of Teacher Education at Various Levels as per NCTE Norms. Salient features of Teacher Education – Relevance, Flexibility, Integration and Inter Disciplinary. Recommendations of various Commissions and Committees on Teacher Education in Post-Independence Era. Critical Appraisal of the present system of Teacher Education in India.

#### Unit 3. Teacher Education Curriculum

National Curriculum Framework for Teacher Education Programme at various levels as Recommended by NCFTE, 2009. Teaching and Training Techniques – Nature, Assumptions, relevance to objectives of the Teacher Training. Various Techniques of Teacher Training— Seminars, Workshops, Brain Storming, ICT, Micro Teaching, Simulation and Duties of Teachers & their Impact in Quality of School Education.

#### Unit 4. Innovations in Teacher Education

Preparing Teachers for Inclusive Classrooms. Preparing Teachers for Special Schools. Integrating ICT in Teachers Education. Problems of Teacher Education in India. Innovations in Teacher Education. Priorities of Research in Teacher Education.



## COURSE-IV

### RESEARCH AND PUBLICATION ETHICS

Name of Course	Research and Publication Ethics	
Course Code	AURPE - 04	
Total Credits	04	
Examination	External	Internal
Maximum Marks	60	40

### Theory & Practice

#### Unit-I Philosophy and Ethics

Introduction to philosophy: Definition, nature and scope, concept, branches  
Ethics: definition, moral philosophy, nature of moral judgments and reactions. Publication Misconduct: Group discussions: subject specific ethical issues, FFP, authorship, conflicts of interest, complaints and appeals: example and fraud from India and abroad

#### Unit-II Scientific misconduct


Ethics with respect to science and research; Intellectual honesty and research integrity; scientific misconducts: falsification, fabrication, and plagiarism (FFP); redundant publications: duplicate and overlapping publications, salami slicing; selective reporting and misrepresentation of data. Software tools: Use of plagiarism software like Turnitin, Urkund, and other open access software tools.

#### Unit-III Publication Ethics

Definition, introduction and importance, Best practices/ standards setting initiatives and guidelines: COPE, WAME, etc. Conflicts of interest; publication misconduct: definition, concept, problems that lead to unethical behavior and vice versa, types; violation of publication ethics, authorship and contributorship; identification of publication misconduct, complaints and appeals; Predatory publishers and journals. Databases and Research Metrics: Databases: Indexing databases, Citation databases, web of science, Scopus, etc.

#### Unit-IV Open access publications

Open access publications and initiatives; SHERPA/RoMEO online resources to check to check publisher copyright & self-archiving Policies; Software tool to identify predatory publications developed by SPPU; Journal finder/ journal suggestion tools viz. UGC care listed journal, Elsevier Suggested journal finder, Springer journal suggester, Impact factor of journal as per journal citation report, SNIP, SJR, IPP, Cite Score; Metrics: h-Index, g-Index, i-10 index, Publons, Google Scholar etc.

  
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## Ph. D Zoology

Eligibility: M.Sc. in Zoology and having 55% marks (50% for SC/ST) in post Graduation.


### Semester- I


Course Code	Name of Course	Internal Assessment Marks	End Semester Marks	Total marks	Credits
AUZooMP 101	Techniques in Biological Research	40	60	100	4
AUZooMP 102	Recent advances in Zoology	40	60	100	4
AUZooMP 103	Specialization paper	40	60	100	4
AUZooMP 104	Research and publication ethics	40	60	100	2
	Total Marks	160	240	400	14

### Note: End Semester Theory Examination

Attempt FIVE questions in all. Question No.1 is compulsory of 20 marks with short - type answers covering the whole syllabus. For others two questions will be set from each unit, one to be attempted. Maximum marks for each theory paper will be 60 and time 3 hours. M.Phil. theory course is same for Ph. D students also who need to undertake theory course as per regulations.

  
  
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- Kelly, R. A. (1971), the use of English for technical students, second edition. ELBS, London.
  - Skoog, D. A. (1985), Principles of Instrumental Analysis, 3rd Edition, Saunders College Publishing, New York.
  - Kuby, Immunology. W.H. Freeman, USA.
  - Paul, W. Fundamentals of Immunology.
  - Roitt, I.M. Essensial Immunology. ELBS edition



Team  
Faculty of Humanities, Edu. & B.Sci.  
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## AUZooMP 103 - ADVANCED TOPICS IN PARASITOLOGY

### UNIT-I

Pathogenesis due to protozoan and helminth parasites  
*In vitro culture*

### UNIT-II

Physiology of helminth parasites (a) feeding, nutrition (b) carbohydrate, lipid and protein metabolism (c) electron transport  
Biology of egg and hatching mechanisms in helminth parasites

### UNIT-III

Infective stages and variation in life cycles of helminths  
Exsheathing mechanism in parasites

### UNIT-IV

Identification of helminth parasites  
(a) Characters of taxonomic importance  
(b) Problems in speciation in dioecious parasites  
(c) Rules of zoological nomenclature  
Adaptations of parasitism

### Suggested Reading Materials:

- Cheng, T.C., General Parasitology, 2<sup>nd</sup> ed. Academic Press, College Division, London (1986).
- Noble, E.R. and Noble, G.A., Parasitology : The Biology of Animal Parasites V-  
edition, Lea & Febiger, Philadelphia (1982).
- Chatterjee, K. D., Parasitology: Protozoology and Helminthology, 13<sup>th</sup> ed., CBS publishers  
and distributors Pvt Ltd (2009)
- James, M.T. and Harwood, R.F., Herins's Medical Entomology, 6<sup>th</sup> ed., Collier  
Macmillan Canada Ltd., Don Mills, Qutario, (1969).

  
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Jhansi Chachyot, Distt. Mandi (H.P.)

## AUZooMP 103- ADVANCED TOPICS IN ENTOMOLOGY

### UNIT I

Insect sociobiology:

Forms of social life, the organization of higher social communities of insects, mutual communication in search of food

### UNIT II

Role of taxonomy, role of dichotomous keys, new frontiers in insect taxonomy

Insect toxicology: classification and mode of action of pesticides, Physiology of insecticidal resistance.

### Unit III

Behavioral control: Principles of behavioural control, pheromones, allomones, kairomones. Pest management with pheromones. Hormonal control and chemosterilants.

### UNIT IV

Diapause: Endocrine mediation of diapauses, significance of diapauses. Pests of stored products: internal feeders, external feeders, secondary pests and scavengers.

### Suggested Reading Materials:

- Kapoor, V.C., Theory and Practice of Animal Taxonomy, 7<sup>th</sup> ed., Oxford and IBH Publishing Co. Pvt. Ltd., New Delhi (2012).
- Peterson P.G., Elements of Insect Ecology, 1st ed., MEDTECH (2018).
- Chapman R. F., The Insects: Structure and function, 5<sup>th</sup> ed. Cambridge University Press (2013).
- Gour T.B. and Sriramulu, M., Insect Physiology: Principles and Concepts. 3<sup>rd</sup> revised ed., Kalyani publishers, New Delhi (2017).
- Prakash A., Laboratory Manual of Entomology, 1st ed. New Age International Publishers (2001).
- Bland R.G. and Jaques H.E., How to know the Insects, 3<sup>rd</sup> ed., MEDTECH (2018)
- Abrol D.P., Bees and Beekeeping in India, 2<sup>nd</sup> revised ed., Kalyani Publishers, New Delhi (2009).
- Ambrose D.P., The Insects: Beneficial and Harmful Aspects, Kalyani Publishers (2007).
- Atwal, A.S. and Dhaliwal G. S., Agricultural Pests of South Asia and Their Management, 5<sup>th</sup> ed. Kalyani Publishers, New Delhi (2005).
- Kumar and Nigam, Economic and Applied Entomology, Emkay Publications (1991).
- Matheson, R., Medical Entomology, Comstock Publishing Company, Inc. (1950).
- Metcalf and Metcalf, Destructive and Useful Insects, McGraw Hill Book Company, Inc. New York, Toronto, London (1951).

Dean  
Faculty of Humanities, K. J. Somaiya  
Vashi University, Chhatrapati  
Chachyot, Distt. Thane (H.P.)

*[Handwritten signature]*

## COURSE-IV

### RESEARCH AND PUBLICATION ETHICS

<b>Name of Course</b>	<b>Research and Publication Ethics</b>	
<b>Course Code</b>	<b>AURPE - 04</b>	
<b>Total Credits</b>	<b>04</b>	
<b>Examination</b>	<b>External</b>	<b>Internal</b>
<b>Maximum Marks</b>	<b>60</b>	<b>40</b>

### Theory & Practice

#### Unit-I Philosophy and Ethics

Introduction to philosophy: Definition, nature and scope, concept, branches  
Ethics: definition, moral philosophy, nature of moral judgments and reactions. Publication Misconduct: Group discussions: subject specific ethical issues, FFP, authorship, conflicts of interest, complaints and appeals: example and fraud from India and abroad

#### Unit-II Scientific misconduct

Ethics with respect to science and research; Intellectual honesty and research integrity; scientific misconducts: falsification, fabrication, and plagiarism (FFP); redundant publications: duplicate and overlapping publications, salami slicing; selective reporting and misrepresentation of data. Software tools: Use of plagiarism software like Turnitin, Urkund, and other open access software tools.

#### Unit-III Publication Ethics

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#### Unit-IV Open access publications

Open access publications and initiatives; SHERPA/RoMEO online resources to check to check publisher copyright & self-archiving Policies; Software tool to identify predatory publications developed by SPPU; Journal finder/ journal suggestion tools viz. UGC care listed journal, Elsevier Suggested journal finder, Springer journal suggester, Impact factor of journal as per journal citation report, SNIP, SJR, IPP, Cite Score; Metrics: h-Index, g-Index, i10 index, Publons, Google Scholar etc.

  
Dean  
Faculty of Humanities, Chaitanya  
Mahilashi University, Chaitanya  
Mahilashi, Chachyot, Distt. Mahilashi (M.P.)



**ABHILASHI UNIVERSITY**  
**CURRICULUM FOR Ph.D. MANAGEMENT (HR/FINANCE/MARKETING)**  
**SEMESTER SYSTEM**  
**SCHEME OF EXAMINATION**

**FIRST SEMESTER**

Sr No.	Course No.	Course Code	Title	Periods/Week	Maximum Marks			Credits
					External Exam	Internal Exam	Total Marks	
1	I	AUPHDMGT-01	Research Methodology	4	60	40	100	4
2	II	AUPHDMGT-02	Management Thought and Theory	4	60	40	100	4
Opt any one of the following courses								
3	III	AUPHDMGT-03	Contemporary Issues in HRM	4	60	40	100	4
4	IV	AUPHDMGT-03	Contemporary Issues in Finance	4	60	40	100	4
5	V	AUPHDMGT-03	Contemporary Issues in Marketing	4	60	40	100	4
6	VI	AUPHDMGT-04 AURPE-04	Research and publication Ethics	4	60	40	100	4

**SECOND SEMESTER**

Sr No.	Course No.	Course Code	Title	Periods/Week	Maximum Marks			Credits	Remarks
					External Exam	Internal Exam	Total Marks		
6	VI	AUPHDMGT-04	Thesis (Seminar)	2	-	-	-	-	Completed
7	VII	AUPHDMGT-05	Thesis Work	32	-	-	-	-	Completed

**THIRD SEMESTER**

Sr No.	Course No.	Course Code	Title	Periods/Week	Maximum Marks			Credits	Remarks
					External Exam	Internal Exam	Total Marks		
6	VI	AUPHDMGT-04	Thesis (Seminar)	2	-	-	-	-	Completed



Dean  
Faculty of Engineering & Technology  
Abhilashi University, Chail Chowk,  
Tehsil Chachyot, Distt. Mandi (H.P.)

## INSTRUCTIONS

**1. Instruction for paper setters:** The questions are to be fairly distributed within the syllabus for maximum marks of 60. The question paper shall comprise five sections A, B, C, D and E. Section A, B, C and D shall contain two questions carrying 12 marks each. These questions shall be selected from the respective units of the syllabus. Section E shall contain four small compulsory questions selected from the entire syllabus carrying 3 marks each.

**2. Candidates:** The candidates are required to answer one question from every section (A, B, C and D) carrying 12 marks each and all four questions which are compulsory from Section E carrying 3 marks each.

  
Dean  
Faculty of Engineering & Technology  
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Tehsil Chachyot, Distt. Mandi (H.P.)



6. Kothari CR, "Research Methodology," VishwasPrakshan.

<b>Subject</b>	<b>Management Thought and Theory</b>	
<b>Subject code</b>	<b>AUPHDMGT-02</b>	
<b>Credits</b>	<b>04</b>	
<b>Examination</b>	<b>Theory</b>	
	<b>External</b>	<b>Internal Assessment</b>
<b>Maximum Marks</b>	<b>60</b>	<b>40</b>

## MANAGEMENT THOUGHT AND THEORY

### UNIT I

**Early Writing in Management, Classical theories:** Scientific Management, Administrative management, Bureaucratic Management.

### UNIT II

**Neo - Classical Theories:** Behavioural Approach, Management Science Approach, System theory and Contingency Approach

### UNIT III

MBO and TQM, Creativity and Innovation in Management, Change Management, Organizational Transformation, Technology Management, Knowledge management and Learning Organizations.

### UNIT IV

Contemporary Management Viewpoints, Macknisey 7s Framework , 21st Century Approaches to Management - Theory Z Approach. Micheal Potter's Industry and Competitive Analysis. Contribution of C K Prahalad, Hamel, Peter Ducker, Henry Mintzberg and HarwardSimen.

#### **Recommended Books: -**

1. Dr. R N Singh, "Management Thought and Thinkers", Sultan Chand & Sons, New-Delhi.
2. Dr. Prabhudutta Sharma, "management Thought & Thinkers", Vishwabharti, Publication, New-Delhi.
3. N K Sharma & Kapil Sharma, "Recent Management Theory", RBSA Publishers, SMS Highway, Jaipur
4. Navin Mathur, "Management Thought", National Publishing House, Choura Rasta, jaipur-302003.

Dean  
Faculty of Engineering & Technology  
Abnashi University, Chail Chowk,  
Tehsil Chachyot, Dist. Mandi (H.P.)

2. Garry Desseler, Human Resource Management, Prentice-Hall India Pvt. Ltd., New Delhi, 10<sup>th</sup> Edition.
3. Edwin B. Flippo, Personnel Management, McGraw-Hill Book Company, 6<sup>th</sup> Edition.
4. Raymond Noe, Wright, Gerhart & Hollenbeck, Human Resource Management - Gaining A Competitive Advantage, Tata McGraw - Hill Publishing Company Ltd., New Delhi, 5<sup>th</sup> Edition.
5. Regis Richard; Strategic HRM & Development, Excel Books, New Delhi.
6. Kaushal SL; Business Ethics, Deep & Deep Publications, New Delhi.
7. Sen Ratna; Industrial Relations in India, Mac Millan, New Delhi.
8. Werener J M & Desimone RL: Human Resource Development, Cenage Learning India Pvt. Ltd., New Delhi.




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3. SharanVyuptakesh, "Fundamentals of Financial Management" Pearson.
4. James C Van harne, " Financial Management & Policy" Pearson
5. Bhalla VK & S Shiva ramu, "International Business Environment & Management"  
Anmol publication.
6. Mike. W. Peng, "International Business" Cengoye Learning.
7. M. Y. Khan " Indian Financial System" Tata McGraw-HiLL Publishing Company Ltd.,  
New Delhi



  
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**Competing through E-Marketing** –Components of e-marketing, Impact of e-Marketing onmarketing Strategy.

**Recommended Books: -**

1. Kotler Philip & Armstrong, G., Principles of Marketing, Prentice-Hall of India, 2008.
2. SaxenaRajan, Marketing Management, Tata McGraw-Hill Publishing Co. Ltd., 3<sup>rd</sup> Edition.
3. Kotler Philip & Keller, Principles of Marketing, Prentice-Hall of India, 2007.
4. Kotler Philip, Marketing Management, Prentice-Hall of India, 2007.

**Research and publication Ethics**

<b>Subject</b>	<b>Research and publication Ethics</b>	
<b>Subject code</b>	<b>AUPHDMGT-04</b>	
<b>credit</b>	<b>04</b>	
<b>Examination</b>	<b>Theory</b>	
	<b>External</b>	<b>Internal Assessment</b>
<b>Maximum marks</b>	<b>60</b>	<b>40</b>

**Unit-I**

**PHILOSOPHY AND ETHICS:** Introduction to philosophy: Definition, nature and scope, concept, branches

Ethics: definition, moral philosophy, nature of moral judgments and reactions.

**Unit-II**

**Publication ethics:** definition, introduction and importance, Best practices / standards setting initiatives and guidelines: COPE, WAME, etc. Conflicts of interest.

**Unit-III**

**Publication misconduct:** Definition, concept, problems that lead to unethical behavior and vice versa, types, Violation of publication ethics, authorship and contributor ship, Identification of publication misconduct, complaints and appeals, Predatory publishers and journals.

**Unit-IV**

  
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## COURSE-IV

### RESEARCH AND PUBLICATION ETHICS

Name of Course	Research and Publication Ethics	
Course Code	AURPE - 04	
Total Credits	04	
Examination	External	Internal
Maximum Marks	60	40

### Theory & Practice

#### Unit-I Philosophy and Ethics

Introduction to philosophy: Definition, nature and scope, concept, branches  
Ethics: definition, moral philosophy, nature of moral judgments and reactions. Publication Misconduct: Group discussions: subject specific ethical issues, FFP, authorship, conflicts of interest, complaints and appeals: example and fraud from India and abroad

#### Unit-II Scientific misconduct

Ethics with respect to science and research; Intellectual honesty and research integrity; scientific misconducts: falsification, fabrication, and plagiarism (FFP); redundant publications: duplicate and overlapping publications, salami slicing; selective reporting and misrepresentation of data. Software tools: Use of plagiarism software like Turnitin, Urkund, and other open access software tools.

#### Unit-III Publication Ethics

Definition, introduction and importance, Best practices/ standards setting initiatives and guidelines: COPE, WAME, etc. Conflicts of interest; publication misconduct: definition, concept, problems that lead to unethical behavior and vice versa, types; violation of publication ethics, authorship and contributorship; identification of publication misconduct, complaints and appeals; Predatory publishers and journals. Databases and Research Metrics: Databases: Indexing databases, Citation databases, web of science, Scopus, etc.

#### Unit-IV Open access publications

Open access publications and initiatives; SHERPA/RoMEO online resources to check to check publisher copyright & self-archiving Policies; Software tool to identify predatory publications developed by SPPU; Journal finder/ journal suggestion tools viz. UGC care listed journal, Elsevier Suggested journal finder, Springer journal suggester, Impact factor of journal as per journal citation report, SNIP, SJR, IPP, Cite Score; Metrics: h-Index, g-Index, i-10 index, Publons, Google Scholar etc.

  
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**ABHILASHI UNIVERSITY**  
**CHAILCHOWK, MANDI (H.P.)**

**SYLLABUS**

**Doctor of Philosophy in**  
**Mechanical Engineering**  
**PhD Course Work Scheme**



**TEACHING AND EXAMINATION SCHEME**

  
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## Research Methodology

### PHD MECHANICAL ENGINEERING COURSE WORK

Name of Course	Research Methodology	
Course Code	(AUPHDRM- 101)	
Total Credits	04	
Examination	External	Internal
Maximum Marks	60	40

#### Contents

#### Unit-1 Overview of Research 10 Hrs

Research and its type, identifying and defining research problems, introduction to different types of research designs. Essential constituents of literature review. Basic principles of experimental design, completely randomized, randomized block, Latin square, factorial

Methods of Data Collection 04 Hrs  
 Primary and secondary data, methods of primary data collection, classification of secondary data

#### Unit-2 Sampling Methods 10 Hrs

Probability sampling: simple random sample, systematic sampling, stratified sampling, cluster sampling and multistage sampling; Non-probability sampling: convenience sampling, judgment sampling, quota sampling; sampling distribution

#### Unit-3 Processing and Data Analysis 15 Hrs

Statistical measures and their significance: central tendencies, measures of variability, skewness, kurtosis, correlation and regression; hypothesis testing: parametric test (z, t, F), Chi square, ANOVA and non-parametric test


#### Unit-4 Reliability and Validity 03Hrs

Test- retest reliability, alternative form reliability, internal-comparison reliability, and scorer reliability; content validity, criterion- related validity and construct validity

#### Essentials of Report Writing 05 Hrs

#### Suggested Readings/Recommended Books (Latest Editions)

1. Geoffrey R. Norman, David L. Streiner, Biostatistics: The Bare Essentials, PMPH USA
2. Beth Dawson, Robert G. Trapp, Basic & Clinical Biostatistics, McGraw-Hill
3. Marcello Pagano, Kimberlee Gauvreau, Principles of Biostatistics, CRC Press
4. Antonella Bacchieri, Giovanni Della Cioppa, Fundamentals of Clinical Research, Springer

  
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 University of Jalandhar, Jhal Chowk,  
 Jalandhar, Distt. Jalandhar (H.P.)

## PHD MECHANICAL ENGINEERING COURSE WORK

Name of Course	Fluid Mechanics and Thermal Sciences	
Course Code	(AUPHDME-103-B)	
Total Credits	04	
Examination	External	Internal
Maximum Marks	60	40

**Fluid Mechanics:** Fluid properties; fluid statics, manometer, buoyancy, forces on submerged bodies, stability of floating bodies; control-volume analysis of mass, momentum and energy; fluid acceleration; differential equations of continuity and momentum; Bernoulli's equation; dimensional analysis; viscous flow of incompressible fluids, boundary layer, elementary turbulent flow, flow through pipes, head losses in pipes, bends and fittings. 10 hrs

**Heat-Transfer:** Modes of heat transfer; one dimensional heat conduction, resistance concept and electrical analogy, heat transfer through fins; unsteady heat conduction, lumped parameter system, Heisler's charts; thermal boundary layer, dimensionless parameters in free and forced convective heat transfer, heat transfer correlations for flow over flat plates and through pipes, effect of turbulence; heat exchanger performance, LMTD and NTU methods; radiative heat transfer, Stefan Boltzmann law, Wien's displacement law, black and grey surfaces, view factors, radiation network analysis. 10 hrs

**Thermodynamics:** Thermodynamic systems and processes; properties of pure substances, behavior of ideal and real gases; zeroth and first laws of thermodynamics, calculation of work and heat in various processes; second law of thermodynamics; thermodynamic property charts and tables, availability and irreversibility; thermodynamic relations. Applications: 10 hrs

**Power Engineering:** Air and gas compressors; vapour and gas power cycles, concepts of regeneration and reheat. I.C. Engines: Air-standard Otto, Diesel and dual cycles. Refrigeration and air-conditioning: Vapour and gas refrigeration and heat pump cycles; properties of moist air, psychometric chart, basic psychometric processes. Turbo Machinery: Impulse and reaction principles, velocity diagrams, Pelton-wheel, Francis and Kaplan turbines. 10 hrs

### **Suggested Readings/Recommended Books (Latest Editions)**

1. Modi and Seth, Fluid Mechanics and Hydraulic Machines, CBS Publishers.
2. Rajput, R.K., A Text Book of Hydraulics, S. Chand and Sons, New Delhi.
3. Heat and Mass Transfer: Yunus A. Cengel, Tata McGraw Hill.
4. Heat Mass Transfer: Domkundwar
5. Rajput, R.K., "Thermal Engineering", Laxmi Publications.
6. Power Plant Technology – M.M. EL -Wakil, McGraw Hill Book Co.
7. Power Plant Engineering – P.C. Sharma, S.K. Kataria and Sons.

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 Tehsil Chachyot, Distt. Mandi (H.P.)



## COURSE-IV

### RESEARCH AND PUBLICATION ETHICS

<b>Name of Course</b>	<b>Research and Publication Ethics</b>	
<b>Course Code</b>	<b>AURPE - 04</b>	
<b>Total Credits</b>	<b>04</b>	
<b>Examination</b>	<b>External</b>	<b>Internal</b>
<b>Maximum Marks</b>	<b>60</b>	<b>40</b>

### Theory & Practice

#### Unit-I Philosophy and Ethics

Introduction to philosophy: Definition, nature and scope, concept, branches  
Ethics: definition, moral philosophy, nature of moral judgments and reactions. Publication Misconduct: Group discussions: subject specific ethical issues, FFP/ authorship, conflicts of interest, complaints and appeals: example and fraud from India and abroad

#### Unit-II Scientific misconduct

Ethics with respect to science and research; Intellectual honesty and research integrity; scientific misconducts: falsification, fabrication, and plagiarism (FFP); redundant publications: duplicate and overlapping publications, salami slicing; selective reporting and misrepresentation of data. Software tools: Use of plagiarism software like Turnitin, Urkund, and other open access software tools.

#### Unit-III Publication Ethics


Definition, introduction and importance, Best practices/ standards setting initiatives and guidelines: COPE, WAME, etc. Conflicts of interest; publication misconduct: definition, concept, problems that lead to unethical behavior and vice versa, types; violation of publication ethics, authorship and contributorship; identification of publication misconduct, complaints and appeals; Predatory publishers and journals. Databases and Research Metrics: Databases: Indexing databases, Citation databases, web of science, Scopus, etc.

#### Unit-IV Open access publications

Open access publications and initiatives; SHERPA/RoMEO online resources to check to check publisher copyright & self-archiving Policies; Software tool to identify predatory publications developed by SPPU; Journal finder/ journal suggestion tools viz. UGC care listed journal, Elsevier Suggested journal finder, Springer journal suggester, Impact factor of journal as per journal citation report, SNIP, SJR, IPP, Cite Score; Metrics: h-Index, g-Index, i-10 index, Publons, Google Scholar etc.

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Tehsil Chachyot, Distt. Mandi (H.P.)

**Abhilashi University**  
**Structure and Syllabus**  
**for**  
**Ph.D Course Work**  
**Under**  
**FACULTY OF PHARMACY**

for  
  
18/11/2016

Dean  
School of Pharmacy,  
Abhilashi University Chail-Chowk,  
Teh. Chachyat, Distt. Mandi (H.P.)

<b>Subject</b>	<b>Research Methodology</b>	
<b>Subject code</b>	<b>AUPH-101</b>	
<b>Credits</b>	<b>04</b>	
<b>Examination</b>	<b>Theory</b>	
	<b>University</b>	<b>Internal Assessment</b>
<b>Maximum Marks</b>	<b>60</b>	<b>40</b>

## INSTRUCTIONS

**1. Instruction for paper setters:** The questions are to be fairly distributed within the syllabus for maximum marks of 60. The question paper shall comprise five sections A, B, C, D and E. Section A, B, C and D shall contain two questions carrying 12 marks each. These questions shall be selected from the respective units of the syllabus. Section E shall contain four small compulsory questions selected from the entire syllabus carrying 3 marks each.

**2. Candidates:** The candidates are required to answer one question from every section (A, B, C and D) carrying 12 marks each and all four questions which are compulsory from Section E carrying 3 marks each.

### Section – A

Literature Survey: Accessing required information in a systematic manner from abstracts, books, journals, Proceedings of conferences, theses and dissertations, CD ROMs, internet and such other sources

### Section - B

Scientific Writing: Writing of papers, articles and thesis, preparation of title, abstracts, introduction, methodology, results and discussion, summary-conclusion, preparation of tables and figures using software like MS Office, Open Office, etc; organization of dissertations and thesis; conventions adopted in writing; citing references; preparation of oral presentations and posters

### Section - C

Data collection and statistical estimation: measures of describing the center of data distributions, measurement of spread of data, binomial and normal distributions; confidence intervals, tests for statistical significance, T-test, F-test, analysis of variance (ANOVA), Chi-square test, linear regression and correlation

### Section – D

Statistical software: Introduction to statistical software such as SPSS, Graph Pad, Sigma Stat, MS Excel, open source software for statistical analysis

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School of Pharmacy  
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Chail-Chowk, Distt. Mandi (H.P.)

Subject	Advanced Pharmacology	
Subject code	AUPH-103	
Credits	04	
Examination	Theory	
	University	Internal Assessment
Maximum Marks	60	40

## INSTRUCTIONS

**1. Instruction for paper setters:** The questions are to be fairly distributed within the syllabus for maximum marks of 60. The question paper shall comprise five sections A, B, C, D and E. Section A, B, C and D shall contain two questions carrying 12 marks each. These questions shall be selected from the respective units of the syllabus. Section E shall contain four small compulsory questions selected from the entire syllabus carrying 3 marks each.

**2. Candidates:** The candidates are required to answer one question from every section (A, B, C and D) carrying 12 marks each and all four questions which are compulsory from Section E carrying 3 marks each.

### Section - A

Detailed study of guidelines for maintenance, breeding techniques and experimentation using laboratory animals: CPCSEA, ICH, GLP; Techniques for the study of Molecular Pharmacology Western Blotting, Immunostaining, RT-PCR, Cell Cultures etc

### Section - B

Organization of screening: Pharmacological activity of new substances, Toxicity studies: acute, sub acute (Repeated dose), subchronic and chronic toxicity

### Section - C

Receptor occupancy and cellular signaling systems such as G-proteins, cyclic nucleotides, calcium and calcium binding proteins, phosphatidyl inositol, Ion channels and their modulators (calcium, potassium sodium and chloride channels)

### Section - D

Endogenous bioactive molecules: Cytokines, neuropeptides and their modulators, neurosteroids, nitric oxide, phosphodiesterase enzyme and protein kinase C, arachidonic acid metabolites, COX-2 regulator and their role in inflammation, endothelium derived vascular substances (NO, endothelins) and their modulators. Pharmacology of atrial peptides, reactive oxygen intermediates, antioxidants and their therapeutic implications

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Subject	Herbal Drug Formulation and Evaluation	
Subject code	AUPH-103	
Credits	04	
Examination	Theory	
	University	Internal Assessment
Maximum Marks	60	40

## INSTRUCTIONS

1. **Instruction for paper setters:** The questions are to be fairly distributed within the syllabus for maximum marks of 60. The question paper shall comprise five sections A, B, C, D and E. Section A, B, C and D shall contain two questions carrying 12 marks each. These questions shall be selected from the respective units of the syllabus. Section E shall contain four small compulsory questions selected from the entire syllabus carrying 3 marks each.

2. **Candidates:** The candidates are required to answer one question from every section (A, B, C and D) carrying 12 marks each and all four questions which are compulsory from Section E carrying 3 marks each.

### Section – A

Overview of novel herbal formulations: Phytosomes, liposomes, microspheres, novel vesicular herbal formulations etc

### Section – B

Standardization of herbal drugs/ formulations: Conventional and modern techniques, sources and uses of natural products in traditional medicines, potential of natural products, natural products in drug discovery and development

### Section – C

WHO Guidelines for assessment of crude drugs:

- Evaluation of identity, purity and quality of crude drugs
- Determination of pesticide residue
- Determination of Micro-organisms
- Determination of arsenic and heavy metals

### Section – D

Herbal Drug Regulatory affairs: Role and importance of national and international regulatory bodies in assessment of quality of herbal drugs and formulations

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*All stream*

Subject	Research Methodology	
Subject code	AUPH-101	
Credits	04	
Examination	Theory	
	University	Internal Assessment
Maximum Marks	60	40

### INSTRUCTIONS

1. **Instruction for paper setters:** The questions are to be fairly distributed within the syllabus for maximum marks of 60. The question paper shall comprise five sections A, B, C, D and E. Section A, B, C and D shall contain two questions carrying 12 marks each. These questions shall be selected from the respective units of the syllabus. Section E shall contain four small compulsory questions selected from the entire syllabus carrying 3 marks each.

2. **Candidates:** The candidates are required to answer one question from every section (A, B, C and D) carrying 12 marks each and all four questions which are compulsory from Section E carrying 3 marks each.

#### Section - A

Literature Survey: Accessing required information in a systematic manner from abstracts, books, journals, Proceedings of conferences, theses and dissertations, CD ROMs, internet and such other sources

#### Section - B

Scientific Writing: Writing of papers, articles and thesis, preparation of title, abstracts, introduction, methodology, results and discussion, summary-conclusion, preparation of tables and figures using software like MS Office, Open Office, etc; organization of dissertations and thesis; conventions adopted in writing; citing references; preparation of oral presentations and posters

#### Section - C

Data collection and statistical estimation: measures of describing the center of data distributions, measurement of spread of data, binomial and normal distributions; confidence intervals, tests for statistical significance, T-test, F-test, analysis of variance (ANOVA), Chi-square test, linear regression and correlation

#### Section - D

Statistical software: Introduction to statistical software such as SPSS, Graph Pad, Sigma Stat, MS Excel, open source software for statistical analysis

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Chandigarh, India - 151001 (H.P.)

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Subject	Advances in Pharmaceutical Sciences	
Subject code	AUPH-102	
Credits	04	
Examination	Theory	
	University	Internal Assessment
Maximum Marks	60	40

## INSTRUCTIONS

1. **Instruction for paper setters:** The questions are to be fairly distributed within the syllabus for maximum marks of 60. The question paper shall comprise five sections A, B, C, D and E. Section A, B, C and D shall contain two questions carrying 12 marks each. These questions shall be selected from the respective units of the syllabus. Section E shall contain four small compulsory questions selected from the entire syllabus carrying 3 marks each.

2. **Candidates:** The candidates are required to answer one question from every section (A, B, C and D) carrying 12 marks each and all four questions which are compulsory from Section E carrying 3 marks each.

### Section - A

Principles, methods, interpretation of data and pharmaceutical applications of various analytical techniques: UV-Visible, IR, NMR spectroscopy, Mass spectrometry, GC, HPLC

### Section - B

ADME pharmacokinetic characterization of drugs: Absorption kinetics, absorption rate constants, distribution kinetics, metabolic kinetics, dose and time dependencies, volume of distribution, renal clearance, mechanism of clearance, clearance ratio, determination of clearance, intrinsic clearance and hepatic clearance, plasma/serum concentrations

### Section - C

Extraction and Isolation techniques: Principle and applications of different extraction & isolation methods viz Soxhlet extraction, microwave extraction, supercritical fluid extraction, solid phase extraction, column chromatography, flash chromatography, isolation and characterization studies of different class of phytoconstituents (Alkaloids, Glycosides, Steroids, Saponins etc)

### Section - D

Intellectual property concepts and fundamentals: Intellectual property protection (IPP) and intellectual property right (IPR), copy right and trade mark protection, criteria for patentability, Indian patent act

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Chali-Chowk, Dist. Mandi (H.P.)

for Pharmaceutical <sup>canalic</sup> ~~Pharmacology~~

Subject	Pharmaceutical Product Development (Pharmaceutics)	
Subject code	AUPH-103	
Credits	04	
Examination	Theory	
	University	Internal Assessment
Maximum Marks	60	40

## INSTRUCTIONS

1. **Instruction for paper setters:** The questions are to be fairly distributed within the syllabus for maximum marks of 60. The question paper shall comprise five sections A, B, C, D and E. Section A, B, C and D shall contain two questions carrying 12 marks each. These questions shall be selected from the respective units of the syllabus. Section E shall contain four small compulsory questions selected from the entire syllabus carrying 3 marks each.

2. **Candidates:** The candidates are required to answer one question from every section (A, B, C and D) carrying 12 marks each and all four questions which are compulsory from Section E carrying 3 marks each.

### Section - A

Pre-formulation studies: Pre-formulation studies of drug substances, proteins and peptides. Pre-formulation work sheet

### Section - B

Solubilization: Solubility and solubilization of non electrolyte, drug solubilization in surfactant systems, use of co-solvents, solid-state manipulations and drug derivitization

### Section - C

Optimization and stability study: Statistical methods and factorial design, Quality by Design, Stability of dosage forms as per ICH guidelines

### Section - D

Physicochemical characterization of pharmaceuticals: Molecular level: Crystallinity, crystal habit, polymorphism, amorphous state, solvates, hydrates, analytical techniques for characterization (DSC, PXRD, SEM, FTIR); Particle level: Particle size, particle shape, porosity, surface area, compaction; Bulk level: Bulk density, compressibility, flow properties, compaction and consolidation cohesivity, electrostatics, aggregation, agglomeration, role in formulation development and processing

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## COURSE-IV

### RESEARCH AND PUBLICATION ETHICS

<b>Name of Course</b>	<b>Research and Publication Ethics</b>	
<b>Course Code</b>	<b>AURPE - 04</b>	
<b>Total Credits</b>	<b>04</b>	
<b>Examination</b>	<b>External</b>	<b>Internal</b>
<b>Maximum Marks</b>	<b>60</b>	<b>40</b>

### Theory & Practice

#### Unit-I Philosophy and Ethics

Introduction to philosophy: Definition, nature and scope, concept, branches  
Ethics: definition, moral philosophy, nature of moral judgments and reactions. Publication Misconduct: Group discussions: subject specific ethical issues, FFP/ authorship, conflicts of interest, complaints and appeals: example and fraud from India and abroad

#### Unit-II Scientific misconduct

Ethics with respect to science and research; Intellectual honesty and research integrity; scientific misconducts: falsification, fabrication, and plagiarism (FFP); redundant publications: duplicate and overlapping publications, salami slicing; selective reporting and misrepresentation of data. Software tools: Use of plagiarism software like Turnitin, Urkund, and other open access software tools.

#### Unit-III Publication Ethics

Definition, introduction and importance, Best practices/ standards setting initiatives and guidelines: COPE, WAME, etc. Conflicts of interest; publication misconduct: definition, concept, problems that lead to unethical behavior and vice versa, types; violation of publication ethics, authorship and contributorship; identification of publication misconduct, complaints and appeals; Predatory publishers and journals. Databases and Research Metrics: Databases: Indexing databases, Citation databases, web of science, Scopus, etc.

#### Unit-IV Open access publications

Open access publications and initiatives; SHERPA/RoMEO online resources to check to check publisher copyright & self-archiving Policies; Software tool to identify predatory publications developed by SPPU; Journal finder/ journal suggestion tools viz. UGC care listed journal, Elsevier Suggested journal finder, Springer journal suggester, Impact factor of journal as per journal citation report, SNIP, SJR, IPP, Cite Score; Metrics: h-Index, g-Index, i-10 index, Publons, Google Scholar etc.

  
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Abhilashi University  
Chail-Chawk, Distt. Mandi (H.P.)



# ABHILASHI UNIVERSITY

Chail Chowk, Tehsil Chachyot, Distt. Mandi (H.P.)

Ph: 01907-292607,292611,292615

Email: [regabhilashi@gmail.com](mailto:regabhilashi@gmail.com) [registrar.au@abhilashi.in](mailto:registrar.au@abhilashi.in)

website: [www.abhilashiuniversity.in](http://www.abhilashiuniversity.in)

Ref. No.: AU/RAC/2016-17/2127

Date: 25.07.2016

## NOTIFICATION

The Hon' ble Vice Chancellor is pleased to constitute **Research Advisory Committee** of Abhilashi University as per the following:

Sr. No.	Name of Faculty	Designation
1.	Director Research	Chairman
2.	Dean, Faculty of Science	Member
3.	Dean, Faculty of Ayurveda	Member
4.	Dean, Faculty of Pharmacy	Member
5.	Dean, Faculty of Engineering & Management	Member

### External Members:

1. **Dr. G.D. Gupta**  
Director,  
ISF Moga, Punjab, India
2. **Dr. Desh Raj Thakur**  
Professor,  
Department of Biosciences  
Himachal Pradesh University Shimla  
Himachal Pradesh, India

Registrar

### Copy to:-

1. All Deans of concerned faculty
2. Director Research
3. PA to Vice - Chancellor for information



# ABHILASHI UNIVERSITY

ChailChowk, Tehsil Chachyot, Distt. Mandi (H.P.)

Ph: 01907-292607,292611,292615

Email: [regabhilashi@gmail.com](mailto:regabhilashi@gmail.com) [registrar.au@abhilashi.in](mailto:registrar.au@abhilashi.in)

website: [www.abhilashiuniversity.in](http://www.abhilashiuniversity.in)

Dated: 12.05.2017

## Proceedings of the meeting of Research Advisory committee, Abhilashi University, Chail-Chowk (Chachyot) Mandi, Himachal Pradesh

A meeting of Research Advisory Committee of Abhilashi University, Chail-Chowk (Chachyot) Mandi was held on 10.05.2017 at 11:00 AM.

Following members were present:

1. **Dr. Sachin Goyal,**  
Director Research cum HOD, Faculty of Pharmacy Abhilashi University
2. **Dr. S.S. Masand**  
Dean, Faculty of Science, Abhilashi University
3. **Dr. D.K. Mishra**  
Dean, Faculty of Ayurveda, Abhilashi University
4. **Ms. S.C. Chauhan**  
Dean, Faculty of Engineering & Technology, Abhilashi University

In the starting of the meeting, Chairman of the committee welcomed of all the members. Thereafter, the agendas of the meeting were put before the committee members. After detailed discussion following decisions were taken.

### 1. To conduct Research Degree Committee meeting twice a year

It was proposed that the meeting of Research Degree Committee of each faculty should be organized twice in a year i.e. in the month of May –June and November –December. All the members agreed to implement this process of to conduct RDC meeting.

### 2. Submission of Progress report in every six month

It was decided that the progress report of the research work carried out by research scholars admitted to various Ph.D. programmes run by this university will be submitted in every six months through proper channel.

### 3. Any other item

Nil.

Meeting ended with vote of thanks.

**Dr. Sachin Goyal**  
Director Research  
Abhilashi University Chail Chowk  
Teh. Chachyot Distt. Mandi H.P.-175020

### Copy to

1. PA to Vice Chancellor for the kind information of Hon'ble VC.
2. Registrar, Abhilashi University



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ChailChowk, Tehsil Chachyot, Distt. Mandi (H.P.)

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website: [www.abhilashiuniversity.in](http://www.abhilashiuniversity.in)

Dated: 17.12.2021

## Proceedings of the meeting of Research Advisory Committee, Abhilashi University, Chail-Chowk (Chachyot) Mandi, Himachal Pradesh

A meeting of Research Advisory Committee of Abhilashi University, Chail-Chowk (Chachyot) Mandi was held on 16.12.2021 at 11:00 AM.

Following members were present:

- 1. Dr. Ajay Kumar Gautam,**  
Director Research, Abhilashi University
- 2. Dr. S.S. Masand**  
Dean, Faculty of Science, Abhilashi University
- 3. Dr. D.K. Mishra**  
Dean, Faculty of Ayurveda, Abhilashi University
- 4. Dr. Parikshit Sharma**  
Dean, Faculty of Engineering & Technology, Abhilashi University

Chairman of the committee welcomed all the members of the committee. In the meeting, following agendas were discussed and decision taken.

### 1. Inclusion of Research and Publication Ethics paper in course work

As per the letter received from University Grant Commission (UGC) to include Research and Publication Ethics paper in course work, it was decided that this paper (Course Code AU RPE- 04) will be included in all Ph.D. programmes being run by Abhilashi University.

Proceeding of the meeting of all Deans, HOD's and Ph.D. Supervisors of Abhilashi University held on 24.11.2020 for implementation of paper entitled "Research and Publication Ethics (RPE)" for all students for pre- registration course work is also attached with this proceeding.

### 2. Any other item

Nil.

Meeting ended with vote of thanks.

  
17/12/2021  
**Dr. Ajay K. Gautam**  
Director  
Abhilashi University Chail Chowk  
Teh. Chachyot Distt. Mandi H.P.-175028

### Copy to

1. PA to Vice Chancellor for the kind information of Hon'ble VC.
2. Registrar, Abhilashi University



# ABHILASHI UNIVERSITY

Chail Chowk, Tehsil Chachyot, Distt. Mandi (H.P.)

Ph: 01907-250408, 9418006520, 9816700520, 9816005139

Email: [abhilashigroup@gmail.com](mailto:abhilashigroup@gmail.com), website: [www.abhilashiuniversity.in](http://www.abhilashiuniversity.in)

Ref. No. AU/Acad-100/2018-19/2490-95

Dated: 31/12/2018

## Notification

In exercising powers vested in him vide Section 13 of the Abhilashi University (Establishment & Regulation) Act 2014. In supersession to this office notification no. AU/Acad-100/2017-18/3043-3048 Dated:-04/12/2017; and accordance with dean Pharmacy letter no. AU/SOPH/2018-19/045 dated: 03/12/2018 the Hon'ble Vice-Chancellor is pleased to re-constitute the committee for **Institutional Animal Ethics Committee (IAEC)** in the faculty of Pharmacy.

Sr. No.	Name	Academic Designation	Designation in IAEC
1.	Dr. Amit Chaudhary	Professor & Dean	Scientist form different biological disciplines
2.	Dr. Neetu Sharma	Assistant Professor	Scientist from different biological disciplines
3.	Dr. M. R. Masand	HOD School of Veterinary Sciences	Veterinarian involved in the care of animals
4.	Dr. Neha Rana	Assistant Professor	Scientist in-charge of Animal House Facility
5.	Ms. Shalini Jamwal	Assistant Professor	Biological Scientist

*[Handwritten Signature]*  
Registrar  
31/12/18

Copy to:-

1. All above for information and necessary action.
2. P.A. to Hon'ble Chancellor, Pro-Chancellor & Vice-Chancellor for information.

*[Handwritten Signature]*  
Registrar  
31/12/18



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website: [www.abhilashiuniversity.in](http://www.abhilashiuniversity.in)

Ref. No.:

Dated: 13/06/2019

**Proceedings of the meeting of Animal ethical committee, Abhilashi University, Chail-Chowk (Chachyot) Mandi, H.P.**

A meeting of Animal ethical committee of Abhilashi University, Chail-Chowk (Chachyot) Mandi was held on 12.06.2019 at 11:00 AM.

Following members were present:

- 1. Dr. Amit Chaudhary,**  
Dean, Faculty of Pharmacy, Abhilashi University
- 2. Dr. Neetu Sharma**  
Assistant Professor, School of Basic Sciences, Abhilashi University
- 3. Dr. M.R. Masand**  
HOD, School of Veterinary Sc., Abhilashi University
- 4. Dr. Neha Rana**  
Assistant Professor, School of Veterinary Sc., Abhilashi University
- 5. Ms. Shalini Jamwal**  
Assistant Professor, School of Pharmacy, Abhilashi University

Meeting started with welcome of all the members by Dr. Amit Chaudhary. In the meeting, Following agendas were discussed and decision taken.

**1. Set up of an animal house**

It was proposed to set up an animal house in the university campus in order to facilitate the research related to clinical studies. All members agreed to frame and submit a detailed proposal regarding the setting up of animal house.

**2. Permission of animal ethical committee**

**3.** It was decided that prior approval of animal ethical committee will be mandatory for carrying out clinical research based on animal trials.

**4. Any other item**

Nil.

Meeting ended with vote of thanks.

**Dr. Amit Chaudhary**

**Copy to**

1. PA to Vice Chancellor for the kind information of Hon'ble VC.
2. Registrar, Abhilashi University



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website: [www.abhilashiuniversity.in](http://www.abhilashiuniversity.in)


Ref. No.: AU/Acad./BEC/2020-2021/963

Date: 16/09/2021

## NOTIFICATION

The Hon' ble Vice Chancellor is pleased to constitute **Chemical Ethical Committee** of Abhilashi University as per the following:

Sr. No.	Name of Faculty	Designation
1.	Dr. Amit Chaurdhary Dean, Faculty of Pharmacy	Chairman
2.	Dr. Ajay Sharma Associate Professor, School of Basic Sciences	Member
3.	Dr. Ravinder, Assistant Professor, School of Agriculture	Member
4.	Dr. Aakriti Guleria, Assistant Professor, School of Agriculture	Member
5.	Dr. Abhinav Rathore, Assistant Professor, Abhilashi Ayurvedic College and Research Center	Member

  
Registrar

### Copy to:-

1. All Deans of concerned faculty
2. Director Research
3. PA to Vice – Chancellor for information



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website: [www.abhilashiuniversity.in](http://www.abhilashiuniversity.in)

Ref. No.:

Dated: 5/10/2021

**Proceedings of the meeting of Chemical Ethical Committee, Abhilashi University, Chail-Chowk (Chachyot) Mandi, H.P.**

A meeting of Chemical Ethical Committee of Abhilashi University, Chail-Chowk (Chachyot) Mandi was held on 04.10.2021 at 11:00 AM.

Following members were present:

- |  |          |
|--|----------|
| 1. <b>Dr. Amit Chaudhary,</b><br>Dean, Faculty of Pharmacy, Abhilashi University                       | Chairman |
| 2. <b>Dr. Ajay Sharma</b><br>Associate Professor, School of Basic Sciences                             | Member   |
| 3. <b>Dr. Ravinder,</b><br>Assistant Professor, School of Agriculture                                  | Member   |
| 4. <b>Aakriti Guleria,</b><br>Assistant Professor, School of Agriculture                               | Member   |
| 5. <b>Dr. Abhinav Rathore,</b><br>Assistant Professor, Abhilashi Ayurvedic College and Research Center | Member   |

Chairman of the committee welcomed all the members of the committee. In the meeting, following agendas were discussed and decision taken.

**1. Safe use of Chemicals in Abhilashi University**

The agenda was discussed by all faculty members and it was decided to frame and paste all necessary instruction related to safe use of chemical in various laboratories of different faculties of Abhilashi University. It was also decided that symbols indicating the nature of different chemicals and their safe use should also be pasted in all laboratories.

**2. Any other item**

Nil.

Meeting ended with vote of thanks.

**Dr. Amit Chaudhary**

**Copy to**

1. PA to Vice Chancellor for the kind information of Hon'ble VC.
2. Registrar, Abhilashi University



## CONTRACTUAL AGREEMENT

This contractual agreement is entered on 7<sup>th</sup> Oct 2020 at Chail Chowk.

BY AND BETWEEN

**Enviro Engineers**, CBWTF Sandli Solan (H.P.) here in after, called as 1<sup>st</sup> party duly authorized by the H.P. State Pollution Control Board, Paryavaran Bhawan, New Shimla 171009 for the compliance of Bio-Medical Waste (Management & handling) Rules, 2016 through Mr. H. R. Thakur, Proprietor, Enviro Engineers, who has been duly authorized to execute and sign this agreement for and on behalf of Enviro Engineers, on the one part.

AND

**Abhilashi University Chailchowk**, Tehsil-Chachyot, District-Mandi (H.P.) 175028 hereinafter as 2<sup>nd</sup> Party, on the other part and is also referred to as **Health Care Unit**.

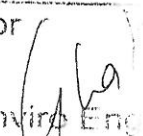
Now the following terms of reference have been agreed upon by both the parties.

### Responsibilities of Health Care Unit

- ❖ Will take all steps to ensure that the waste is handled without adverse effect to human health and environment before collection by taking the steps to segregate the waste at the point of generation in accordance with schedule 1 & 2 of Bio-Medical Waste (Management & handling) Rule, 2016 in compliance with the standard prescribed.
- ❖ Will maintain the record of Bio-Medical Waste Generated/Handed over.
- ❖ Will fix a Bio-Medical Waste lifting point (collection and point) and will also authorize a person, whose name designation will be submitted to 1<sup>st</sup> Party in writing to interact with Enviro Engineers/collection van staff and will sign the Enviro Engineers daily report chart as acknowledgement of the visit/BMW handed over.
- ❖ Will intimate the absentee, if any, very next day to Enviro Engineers office.
- ❖ Will destroy, disinfect sharps and mutilate them in puncture proof containers before collection.
- ❖ Will provide color coded bags for BMW collection to avoid any violation.
- ❖ Will renew their contractual agreement one month before the date of expiry.
- ❖ Will provide BMW by weight/electronic weighing machine.

### Responsibilities of Enviro Engineers

- ❖ Will receive, collect and transport the BMW handed over by **Health Care Unit** in color coded bags.
- ❖ Will hand over the incinerable waste to Bio Medical Waste Treatment plant site at Sandli for final disposal.
- ❖ Will submit the monthly report of the waste collected/continuation of the services of related **Health Care Unit** to the prescribed authority and also submit the annual report to the prescribed authority.

For  
  
Enviro Engineers

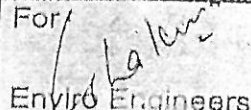
## GENERAL TERMS AND CONDITIONS

- ❖ The terms of this agreement shall be from 1<sup>st</sup> April 2020 to 31<sup>st</sup> March 2025.
  - ❖ Registration No. of this agreement is EE/753/20-21 on dated 7<sup>th</sup> Oct 2020.
  - ❖ Enviro Engineers will charge minimum Rs.10450/Month up to 150Kgs waste for handling, collection, transportation & disposal of Bio Medical Waste. Rs.50/kg will be charged for extra waste.
  - ❖ Enviro-Engineers will transport the BMW on alternative days. If vehicle is required on daily basis Rs 25/km will have to be borne by the second party as a transportation & Rs.1000/-as a handling charges (for Covid-19 waste/extra vehicle)
  - ❖ COVID-19 waste will be accepted in triple layer bag and only after sanitization.
  - ❖ 10% will be increased per year automatically.
  - ❖ These service charges are initially up to 31<sup>st</sup> March 2021 which can be revised by mutual understanding, if at any stage. Govt. of HP or any other competent agency approves the charges, it will come into force with immediate effect.
  - ❖ Taxes such as GST or any tax as and when applicable shall be to the waste generator's account.
  - ❖ Enviro-Engineers will transport the Bio Medical Waste (Management & handling) Rule, 2016 and can discontinue the services of the waste generator in the event the waste generator is at default in responsibilities/payments with seven days prior notice.
  - ❖ Bio Medical Waste should be segregated, leveled, tagged and tied in proper color & bar coded bags i.e.:-
    - Yellow Bags: (a) Human Anatomical (b) Human Anatomical Waste (c) Soiled waste: Items contaminated with blood, body fluids like dressings, plasters casts, cotton swabs and bags containing residual or discarded blood and blood components.(d)Expired or Discarded Medicines: Pharmaceutical waste like antibiotics, cytotoxic drugs including all items contaminated with cytotoxic drugs along with glass or plastic ampoules, vials etc.
    - Red bags: Contaminated Waste (Recyclable)(a) Waste generated from disposable items such as tubing, bottles, intravenous tubes and sets, catheters, urine bags ,syringes(without needles and fixed needle syringes) and vacuolators with their needles cut and gloves.
    - Blue Bags: (a) Glassware: Broken or discarded and contaminated glass including medicine vials and ampoules except those contaminated with cytotoxic wastes.(b) Metallic Body Implants
    - White Bags: Waste sharps including Metals: Needles, syringes with fixed needles, needles from needle tip cutter or burner, scalpels, blades, or any other contaminated sharp object that may cause puncture and cuts. This includes used, discarded and contaminated metal sharps.
    - The 1st party will not stop the services of collection without written intimation of HPSPCB Sundernagar/Parwanoo/ New Shimla/Poanta Sahib in case of temporary closure/holidays of unit.
    - As per NGT/ office order HPSPCB/BMW/02 notification/-27395-99 Dated 19/12/2019 no waste will be lifted without barcode.
    - Before handing over the Bio Medical waste the lab certificate of non chlorinated & thickness of micron must be given by 2nd party to 1st party.
    - The service of collection & transportation will be started from 8:00 am to onward.
    - The duplicate copy of agreement will be provided after written request along with Rs. 200/- in the shape of draft/cheque.
    - Cheque bounce charges (in any shape) will be recovered from 2nd party i.e Rs.300/-.
  - ❖ No change or modification or waiver of any of the terms and conditions of this agreement shall be effective, unless agreed to in writing and shall be in force as agreed upon by the both parties here to.
  - ❖ Neither party shall transfer and nor assign the rights granted under the contract agreement without the prior assignee/transferee agreeing to assume all the said parties obligations and covenants contained herein.
  - ❖ This agreement shall be governed by the law of India and shall be interpreted and construed in accordance with the laws of India and shall be in writing and delivered by hand against receipt or sent by registered post to the address of any of the parties.
  - ❖ Any such notice or communication shall be deemed to have been duly given and served at the date and time of (1) delivery or of first refusal of delivery, if sent by registered mail or delivered by hand or (2) either the date sent (if sent during the receiving party's normal business hours) or next succeeding day, if sent by telefax.
  - ❖ Enviro Engineers will not pick up the Bio-medical Waste from Health Care Unit if it is not segregated, packed and tied in proper color coded bags marked with Bar code No. or mixed with other general waste as per the Bio-Medical (M&H) Rules, 2016.
- IN WITNESS WHEREOF THE PARTIES HERETO HAVE SET THEIR HAND AND SEAL, THE DAY OF MONTH AND YEAR FIRST ABOVE WRITTEN

On behalf of Health Care Unit  
Abhilashi University Chaitehokw

Authorized Signatory  
Abhilashi Ayurvedic College &  
Research Institute  
Chail-Chowk, Distt. Mandi (H.P.)

On behalf of Enviro Engineers,









For  
  
Enviro Engineers

Authorized Signatory

Document Information

Analyzed document	KAPIL KUMAR VERMA FINAL PhD THESIS.doc (D70609863)
Submitted	5/9/2020 7:22:00 PM
Submitted by	Dr. Sachin Goyal
Submitter email	goyalsachin14@gmail.com
Similarity	2%
Analysis address	goyalsachin14.abhi@analysis.orkund.com

Sources included in the report

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<b>J</b>	<b>BMC Complementary and Alternative Medicine</b> URL: <a href="https://doi.org/10.1186/s12916-019-14355-7">aff95c9b-33f8-4153-84c3-bdb18bd34511</a> Fetched: 10/19/2019 4:01:49 AM		2
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<b>J</b>	<b>Hepatoprotective and antioxidant effects of Bridelia retusa against carbon tetrachloride-induced hepatotoxicity</b> URL: <a href="https://doi.org/10.1186/s12916-019-14355-7">c9ffe78a-33ef-4cb9-969b-9a3d7fbfcd5f</a> Fetched: 3/12/2019 7:44:13 PM		6
<b>W</b>	URL: <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5757324/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5757324/</a> Fetched: 5/9/2020 7:24:00 PM		2
<b>W</b>	URL: <a href="https://www.researchgate.net/publication/270592585_Effect_of_Petroleum_Products_on...">https://www.researchgate.net/publication/270592585_Effect_of_Petroleum_Products_on ...</a> Fetched: 5/9/2020 7:24:00 PM		1

## Urkund Analysis Result

Analysed Document: Abhishek Soni, Ph.D Thesis, Abhilashi University, Mandi, H.P.docx (D65287003)  
Submitted: 3/12/2020 8:29:00 AM  
Submitted By: goyalsachin14@gmail.com  
Significance: 3 %

### Sources included in the report:

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[https://www.researchgate.net/publication/5653076\\_Evaluation\\_of\\_Mechanical\\_and\\_Mucoadhesive\\_Properties\\_of\\_Clomiphene\\_Citrate\\_Gel\\_Formulations\\_Containing\\_Carbomers\\_and\\_Their\\_Thiolated\\_Derivatives](https://www.researchgate.net/publication/5653076_Evaluation_of_Mechanical_and_Mucoadhesive_Properties_of_Clomiphene_Citrate_Gel_Formulations_Containing_Carbomers_and_Their_Thiolated_Derivatives)  
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Instances where selected sources appear: