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**Department of Biology**

**College of Education-Shaqlawa**

**University of Salahaddin-Erbil**

**Subject: Research Method**

**Course Book – Year 2**

**Lecturer's name: Mr. Hiwa Hussein Hasan**

**Academic Year: 2022/2023**

**First Semester**

**Course Book**

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| **1. Course name** | Theoretical Plant Taxonomy | |
| **2. Lecturer in charge** | Hiwa Hussein Hasan | |
| **3. Department/ College** | Biology/Education-Shaqlawa | |
| **4. Contact** | e-mail: [hiwa.h.hasan@su.edu.krd](mailto:hiwa.h.hasan@su.edu.krd)  Tel: 009647507805992 | |
| **5. Time (in hours) per week** | Theoretical: 3 | |
| **6. Office hours** | hours | |
| **7. Course code** | EdB2407 | |
| **8. Teacher's academic profile** | There is no doubt that the teacher as a main factor of the teaching process, has a very good and important role in performance the teaching program and preparing the students, he is the follower of the results of teaching process and try to progress this process. The teacher is an affected factor among the teaching factors, and has effect on the student’s characters and their future, therefor; the teacher must beware in his treatment with the students and the teaching staff. For all the progress that take place in the world, in all the fields, such as cultural, social, scientific, technology, etc. … , the teacher must suit himself with all these changes and benefit from them in order he can finally to reach these benefits to all peoples that he treat with them. | |
| **9. Keywords** |  | |
| **10. Course overview:**  Research Methodology is a hands‐on course designed to impart education in the foundational methods and techniques of academic research in social sciences and business management context. Research scholars would examine and be practically exposed to the main components of a research framework i.e., problem definition, research design, data collection, ethical issues in research, report writing, and presentation. Once equipped with this knowledge, participants would be well‐placed to conduct disciplined research under supervision in an area of their choosing. In addition to their application in an academic setting, many of the methodologies discussed in this course would be similar to those deployed in professional research environments. | | |
| **11. Course objective:**  The primary objective of this course is to develop a research orientation among the scholars and to acquaint them with fundamentals of research methods. Specifically, the course aims at introducing them to the basic concepts used in research and to scientific social research methods and their approach. It includes discussions on sampling techniques, research designs and techniques of analysis. | | |
| **12. Student's obligation**  The role of students and their obligations throughout the academic year involve their attendance in the lectures, drawing all the plates and plant specimens concerning to the lecture, and completion of all daily (quizzes) and monthly tests, exams, and preparing some herbarial plant specimens, as well as collecting fresh plant specimens within the field trips during spring and summer seasons. | | |
| **13. Forms of teaching**  Teaching methods include readings, lectures, group discussions, exercises, and assignments. Lectures are designed such that ensure greater scholar participation. | | |
| **14. Assessment scheme**   * Assignments * Presentation * End-Term Paper ‌ | | |
| **15. Student learning outcome:**   * To develop understanding of the basic framework of research process. * To develop an understanding of various research designs and techniques. * To identify various sources of information for literature review and data collection. * To develop an understanding of the ethical dimensions of conducting applied research. * Appreciate the components of scholarly writing and evaluate its quality. | | |
| **16. Course Reading List and References‌:**  Bryman, Alan & Bell, Emma (2011). Business Research Methods (Third Edition), Oxford University Press.  Kerlinger, F.N., & Lee, H.B. (2000). Foundations of Behavioural Research (Fourth Edition), Harcourt Inc.  Rubin, Allen & Babbie, Earl (2009). Essential Research Methods for Social Work, Cengage Learning Inc., USA.  Anantasi, A. & Urbina, S. (2004). Psychological Testing, Pearson Education, Inc.  Chawla, Deepak & Sondhi, Neena (2011). Research methodology: Concepts and cases, Vikas Publishing House Pvt. Ltd. Delhi.  Pawar, B.S. (2009). Theory building for hypothesis specification in organizational studies, Response Books, New Delhi.  Neuman, W.L. (2008). Social research methods: Qualitative and quantitative approaches, Pearson Education. | | |
| **17. The Topics:** | | **Lecturer's name** |
| 1. Introduction to research – The role of research, research   process overview   1. Philosophies and the language of research theory building – Science and its functions, what is theory? and the meaning of methodology. 2. Thinking like a researcher – Understanding Concepts,   Constructs, Variables, and Definitions   1. Problems and Hypotheses – Defining the research problem,   Formulation of the research hypotheses, The importance of problems and hypotheses   1. Research design – Experimental and Nonexperimental   research design, Field research, and Survey research   1. Methods of data collection – Secondary data collection   methods, qualitative methods of data collection, and Survey  methods of data collection   1. Attitude measurement and scaling – Types of measurement   scales; Questionnaire designing – Reliability and Validity   1. Sampling techniques – The nature of sampling, Probability   sampling design, Non- probability sampling design, Determination of sample size   1. Processing and analysis of data 2. Ethical issues in conducting research 3. Report generation, report writing, and Harvard format   Title page, Abstract, Introduction, Methodology, Results,  Discussion, References, and Appendices.   1. Finally, some programs used for referencing such as, EndNote, Mendeley, etc. | | Mr. Hiwa Hussein Hasan  Every lecture takes 3 hrs. |
| **18. Examinations:**(Compositional)  **Q1**/  What is the composition of Research article?  **Q2**/  Difference between review and research? **Q3**/ Define the research ethic? **Q4**/ what is the condition of hypothesis? | | |
| **19. Extra notes:** | | |
| **20. Peer review**  I reviewed this course book and I approve its contents.  Signature:  Name: Asst. Prof. Dr. Srwat Alqasab | | |