

<b>Programme</b>	<b>BS Botany</b>	<b>Course Code</b>	<b>BOT-407L</b>	<b>Credit Hours</b>	<b>1</b>
<b>Course Title</b>	<b>Scientific Inquiry and Research Methods (Lab)</b>				
<b>Lab Course Contents</b>					
<ul style="list-style-type: none"> <li>• Hands-on activity using selected Academic databases</li> <li>• Hands-on activity browsing and saving need-based scientific literature</li> <li>• Hands-on activity managing collected information</li> <li>• Hands-on activity reading and drawing notes of scientific literature</li> <li>• Hands-on activity improving scientific writing of thesis chapters</li> <li>• Hands-on activity citing sources of information correctly as bibliography and references manually and by using software</li> <li>• Hands-on activity developing data collection sheet in MS Excel</li> <li>• Hands-on activity recording and entering the observed data in MS Excel</li> <li>• Hands-on activity summarizing data by applying descriptive statistics in MS Excel</li> <li>• Hands-on activity analyzing data by applying selected analytical statistics in MS Excel</li> <li>• Hands on activity writing research proposals</li> </ul>					
<b>Textbooks and Reading Material</b>					
<ol style="list-style-type: none"> <li>1. Youdeowei, A., Stapleton, P., Obubo, R. (2012). Scientific Writing for Agricultural Research Scientists - A Training Resource Manual. Wageningen, The Netherlands: CTA.</li> <li>2. Chasan-Taber, L. (2014). Writing Dissertation and Grant Proposals. CRC Press, USA.</li> <li>3. Oster, S., Cordo, P. (2015). Successful Grant Proposals in Science, Technology, and Medicine A Guide to Writing the Narrative. Cambridge University Press, Cambridge, UK.</li> <li>4. Creswell, J. W. (2018). Research design: Qualitative, Quantitative and Mixed methods approaches. 5th Ed. Thousand Oaks, CA: Sage.</li> <li>5. Leedy, P. (2004). Practical Research: Planning and Design (8th Edition), Jeanne Ellis Ormrod.</li> <li>6. Gomez, K.A., Gomez, A.A. (1984). Statistical Procedures for Agricultural Research. 2nd Ed. A Wiley-Interscience Publication John Wiley &amp; Sons, New Yor, USA.</li> </ol>					
<b>Teaching Learning Strategies</b>					
<ul style="list-style-type: none"> <li>• Lectures</li> <li>• Group Discussion</li> <li>• Laboratory work</li> <li>• Seminar/ Workshop</li> </ul>					
<b>Assignments: Types and Number with Calendar</b>					
<ul style="list-style-type: none"> <li>• Lecture Based Examination (Objective and Subjective)</li> <li>• Assignments</li> <li>• Class discussion</li> <li>• Quiz</li> <li>• Tests</li> </ul>					