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<tr><td>Course Code</td><td colspan="6">BYU5610</td></tr>
<tr><td>Level</td><td colspan="6">05</td></tr>
<tr><td>Course Title</td><td colspan="6">Research Project in Botany (General)</td></tr>
<tr><td>Credit value</td><td colspan="6">06</td></tr>
<tr><td>Core/Optional</td><td colspan="6">Core for BSc</td></tr>
<tr><td>Prerequisites</td><td colspan="6">A limited number of selected students registered</td></tr>
<tr><td rowspan="2">Hourly breakdown</td><td colspan="2">Theory</td><td>Practical</td><td>Independent Learning</td><td>Assessment</td><td>Total</td></tr>
<tr><td>-</td><td>Face-to-face contact: 110 h (DS4 x 3 h) + (Contact Sessions with Course Coordinator and Supervisor 3.5 h x 28 weeks)<br>110 h</td><td>-</td><td>Research time: 490 h (Experimental work 350 h – 5x2.5x28 + reference time 84 h – 3x1x28 ) + writing time (5x5x2 - 50 h)+ online (6h)<br>490 h</td><td>(2 CAT x 1 h)<br>02 hrs</td><td>601 hours</td></tr>
<tr><td>Course Aim/s.</td><td colspan="6">The specially selected students are guided to carry out a research project on an approved topic under the supervision of a senior academic.<br>This course aims to:<br>1. Provide the opportunity to become familiar with the process of carrying out research in Botany<br>2. Enables to acquire the skill to carry out and plan experimentation for hypothesis testing<br>3. Assist to acquire a critical approach to reading and evaluating existing data and other material based on appropriate and rigorous criteria and interpreting research data<br>4. Enables you to use published material in a productive way in order to improve the quality of research and hence formulate and realize the research objective effectively and come to valid conclusions<br>5. Enable you to appraise the scientific strengths and weaknesses of published material in an accurate and detailed way and thereby to utilize the information more effectively to interpret your results<br>6. Submission of a research proposal and a progress report as continuous assessments and a mini-dissertation followed by a presentation and an oral examination are requirements for the final examination.</td></tr>
<tr><td>PLOs addressed by course</td><td colspan="6">PLO1: Knowledge: Explain the fundamental, principles and broader knowledge pertaining to the chosen science disciplines offered for the degree.<br>PLO2: Practical Knowledge and Application. Demonstrate the competency to use the knowledge and practical skills appropriately.<br>PLO3: Communication: Demonstrate the competency in communicating efficiently and effectively to present information, ideas and concepts to the scientific community as well as to the wider society.<br>PLO4: Individual Work, Team Work and Leadership: Demonstrate the competency in working independently and in groups in addressing issues in multi-disciplinary environments and completing the tasks on time through collaborative learning while exhibiting leadership.<br>PLO5: Creativity and Problem Solving: Identify and analyze problems using quantitative and/or qualitative approaches using scientific methodology to provide valid conclusions.<br>PLO6: Adaptability and Flexibility: Demonstrate the ability to adapt to diverse working environments using flexible approaches and strategies.<br>PLO7: Information and Communication Technology Literate: Demonstrate the competency of using Information and Communication Technology for numerical and statistical analysis, and in day to day applications.<br>PLO8: Vision for Life: Develop the capacity to project for future through identifying self-directed goals and continuously targeting towards them for self-improvement by undertaking further studies.<br>PLO9: Lifelong Learning: Develop the capacity to foresee new trends and their impacts and continuously update knowledge and develop skills willingly to meet those future challenges.</td></tr>
<tr><td>Course Learning Outcomes (CLO)</td><td colspan="6">The students should be able to:<br>CLO1: Attain a high-level research experience in, and ability to conduct independent research in a field of plant science(PLOs1-9)<br>CLO2: Review and assess scientific literature(PLOs1-9)<br>CLO3: Carry out hypothesis testing, and design laboratory and/or field experiments(PLOs1-9)</td></tr>
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<tr><td></td><td colspan="2">CLO4: Carry out advanced scientific techniques, analyse data and make valid interpretations(PLOs1-9)<br><br>CLO6: Acquire the necessary skills for written and oral presentations; and potential to proceed to the PhD degree. (PLOs1-9)</td></tr>
<tr><td>Content<br>(Main topics, sub topics)</td><td colspan="2">Course materials:<br>No course material provided as lesson material.<br>Supplementary material provided for instructions and guidelines.<br>Course delivered through continuous guidance through regular supervision and independent learning.<br>Online component to be included.</td></tr>
<tr><td>Teaching Learning methods</td><td colspan="2">Self-learning/Independent learning of self-study<br>▪ Course material: None<br><br>Compulsory contact sessions<br>▪ Face-to-face contact: 110 h + (Contact Sessions with Course Coordinator and Supervisor 3.5 h x 28 weeks)<br>▪ Research time: 490 h (Experimental work 350 h - 5x2.5x28 + reference time 84 h - 3x1x28 ) + writing time (5x5x2 - 50 h)+online (6h)<br>▪ Assessment: 3 h (CATs 2 x 1 h)</td></tr>
<tr><td rowspan="2">Assessment strategy</td><td>Overall CA Mark (OCAM): 40%</td><td>Final Assessment: 60%</td></tr>
<tr><td>CAT I : Project Proposal; CAT II – Progress Report<br>CA: 20% Project Proposal + 80% Progress Report</td><td>Final Evaluation<br>Mini-dissertation - 75%<br>Viva Voce - 25%</td></tr>
<tr><td>Recommended Readings:</td><td colspan="2">• Oliver, Paul (2008) Writing your theses (2nd Edition) SAGE Publication India Pvt. Ltd., New Delhi.<br>• Partridge, Brian and Starfield, Sue (2007) Thesis and Dissertation Writing in a Second Language – a Handbook for Supervisors. Routledge, London and New York.<br>• Walliman, Nicholas (2005) Your Research Project (2nd Edition) Vistaar Publication, New York.<br>• Wisker, Gina (2009) The Undergraduate Research Handbook - Palgrave Study Skills. Palgrave and Macmillan, New York.</td></tr>
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