



# Centre for e-Learning

**Kerala Agricultural University**

IT-BT Complex, KAU (PO), Thrissur, Kerala – 680656

Website: [www.celkau.in](http://www.celkau.in) Email: [celkau@gmail.com](mailto:celkau@gmail.com)



## PLANT PROPAGATION AND NURSERY MANAGEMENT

(18 credit course)

### Course Content

<p style="text-align: center;"><b><u>1<sup>st</sup> Month</u></b></p> <p><b>Module 1: Basics of Nursery Management</b></p> <ol style="list-style-type: none"> <li>1. Introduction to nursery</li> <li>2. Plant propagation- methods and classification</li> <li>3. Factors affecting plant growth</li> <li>4. Plant growth regulators</li> <li>5. Introduction to landscaping</li> <li>6. Lawn making</li> </ol> <ul style="list-style-type: none"> <li>• Self-Assessment Test</li> </ul>	<p style="text-align: center;"><b><u>4<sup>th</sup> Month</u></b></p> <p><b>Module 4: Vegetative Propagation-II</b></p> <ol style="list-style-type: none"> <li>1. Grafting and budding</li> <li>2. Root stock-scion relationship</li> <li>3. Top working</li> <li>4. Special practices in nursery management</li> <li>5. Micro-propagation (tissue culture/invitro culture)</li> <li>6. Apomixis and Poly embryony</li> </ol> <ul style="list-style-type: none"> <li>• Mid Term exam</li> </ul>
<p style="text-align: center;"><b><u>2<sup>nd</sup> Month</u></b></p> <p><b>Module 2: Seed Propagation</b></p> <ol style="list-style-type: none"> <li>1. Seed as propagule</li> <li>2. Seed Germination</li> <li>3. Seed dormancy and viability</li> </ol> <ul style="list-style-type: none"> <li>• Self-Assessment Test</li> </ul>	<p style="text-align: center;"><b><u>5<sup>th</sup> Month</u></b></p> <p><b>Module 5: Commercial Nursery Management</b></p> <ol style="list-style-type: none"> <li>1. Nursery- site selection, lay out, records</li> <li>2. Nursery structures</li> <li>3. Preparation of media for Nursery Plants</li> <li>4. Selection of Mother Plants &amp; Elite Seedlings</li> <li>5. Pests and disease in nursery plants</li> <li>6. Containers for growing plants</li> <li>7. Nursery as an Enterprise</li> </ol> <ul style="list-style-type: none"> <li>• Assignment submission</li> <li>• Contact Class -2days</li> </ul>
<p style="text-align: center;"><b><u>3<sup>rd</sup> Month</u></b></p> <p><b>Module 3: Vegetative Propagation-I</b></p> <ol style="list-style-type: none"> <li>1. Asexual reproduction-importance, advantages</li> <li>2. Methods of Asexual Propagation through stolons, runners, offsets, bulbs, corms</li> </ol>	<p style="text-align: center;"><b><u>6<sup>th</sup> Month</u></b></p> <p><b>Module 6: Entrepreneurship Development</b></p> <ol style="list-style-type: none"> <li>1. <i>Entrepreneurship – Concept- Need – Traits and stages</i></li> <li>2. <i>Project management and appraisal – Market, technical, social, financial analysis</i></li> <li>3. <i>Market Management – Concept planning for marketing, target marketing and competitive strategy</i></li> </ol> <ul style="list-style-type: none"> <li>• Project submission</li> <li>• Final Examination</li> </ul>