**e-Learning Material to be uploaded on Virtual C4**

Course / Programme: M.Sc. (Botany)

Course: M.Sc. I, Semester-II, Paper-VII, Plant Physiology

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| **Name of topic** | **e-content Link \*** |
| **Reading material PDF and PPT, Semester-II, Paper-VII** | [**https://drive.google.com/drive/folders/1YKs4b1rrFzb-nWx731SLYNxKsK5A1Kqz**](https://drive.google.com/drive/folders/1YKs4b1rrFzb-nWx731SLYNxKsK5A1Kqz) |
| **Video lectures – Semester-II, Paper-VII, Plant Physiology**  |
| Ethylene | <https://www.youtube.com/watch?v=QMltypyW0tE> |
| Ethylene Biosynthesis And Functions | <https://www.youtube.com/watch?v=C0JmpP28VtI&t=136s> |
| Ethylene its physiological role and its signaling | <https://www.youtube.com/watch?v=QMltypyW0tE> |
| Ethylene and its introduction and Biosynthesis | <https://www.youtube.com/watch?v=PYjQ912QGVE&t=8s> |
| Brassinosteroids Introduction, Discovery, Chemical Nature, Bioassay And Physiological Role | <https://www.youtube.com/watch?v=AXrdqvuQQEI> |
| Jasmonic Acid And Its Signaling Pathway  | <https://www.youtube.com/watch?v=03cduXJddnM> |
| Auxins | <https://www.youtube.com/watch?v=jzYC209kjE0> |
| Auxin Signaling Pathway | <https://www.youtube.com/watch?v=TOx9yTJ4b5c> |
| Abscisic acid | <https://www.youtube.com/watch?v=sVccjrdLj1Y> |
| Gibberellins | <https://www.youtube.com/watch?v=aG1QxzEMY68> |
| Photoperiodism |  <https://www.youtube.com/watch?v=YHH3BHs9vfQ> |
| Plant movements | <https://www.youtube.com/watch?v=vjkDo8GELgM> |
| Photoinhibition-I | <https://www.youtube.com/watch?v=t3u0AUMVjSo> |
| Photoinhibition-II | <https://www.youtube.com/watch?v=Rztffk3ZjCQ> |
| Photosynthesis and Photorespiration | <https://www.youtube.com/watch?v=zBkN-rRleho> |
| Mechanism of Photosynthesis | <https://www.youtube.com/watch?v=huUlyflidto> |
| Photosystem I and photosystem ll in cleavage of water | <https://www.youtube.com/watch?v=xjtXpAUd_9A> |
| Plant Senescence | <https://www.youtube.com/watch?v=n1DagYrouBk> |
| Stoichiometry of Glycolysis | <https://www.youtube.com/watch?v=jClS8LFGqhM&list=PL_a1TI5CC9REW2T_S0uCacCQB_jM6iBlV> |
| Oxidative Phosphorylation | <https://www.youtube.com/watch?v=M_JqOHhh71I&list=PL_a1TI5CC9REW2T_S0uCacCQB_jM6iBlV&index=2> |
| Citric Acid Cycle as Source of Biosynthetic Precursor | <https://www.youtube.com/watch?v=8hQmuyGIpw4&list=PL_a1TI5CC9REW2T_S0uCacCQB_jM6iBlV&index=4> |
| Enzyme region and stereospecificity | <https://www.youtube.com/watch?v=pQaOOVDsjlE&list=PL_a1TI5CC9REW2T_S0uCacCQB_jM6iBlV&index=36> |
| Models for Enzyme Action | <https://www.youtube.com/watch?v=Fu1NqTtkL-o&list=PL_a1TI5CC9REW2T_S0uCacCQB_jM6iBlV&index=37> |
| Models for Enzyme Action | <https://www.youtube.com/watch?v=rCe57X4cE-8&list=PL_a1TI5CC9REW2T_S0uCacCQB_jM6iBlV&index=38> |
| High temperature stress | <https://www.youtube.com/watch?v=l_-FYhu1n9A> |
| Low temperature stress | <https://www.youtube.com/watch?v=THG1gmnLSRI> |
| Passive and active transport | <https://www.youtube.com/watch?v=U2Sb9cvluSQ&list=RDCMUCCUr096WDp86n62CXBeHlQw&index=21> |

\* e-content:

* e-content (PPT, pdf) prepared by the faculty (shared as a Google Drive link).
* e-content : Available as a **free learning resources preferably** offered by MHRD or similar government organizations/institutions. viz. NPTEL You tube channel, SWAYAM, SWAYAMPRABHA, e-PG Pathshala, NDL, etc. OR

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**Designation:** Assistant Professor

**Department:** Botany

 **Department of Botany**

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