



ANNAMALAI UNIVERSITY
DEPARTMENT OF BOTANY
 (UGC-SAP & DST-FIST sponsored Department)



**Offers Free online Course on
 GYMNOSPERMS, PLANT ANATOMY,
 PLANT PHYSIOLOGY AND MOLECULAR BIOLOGY**

13.05.2020 to 17.05.2020

This online course is planned for the benefit of B.Sc. and M.Sc. (Botany) and Plant Biology students during this unforeseen situation. The students are advised to undergo this course and get acquainted with some of the important topics of Botany to face the forthcoming University Examinations.

No Registration Fee

Course will be conducted through Zoom

E- Certificate will be issued to the participants

Resource Persons:

- 1. Dr. L. Mullainathan** Professor, Dept. of Botany, Annamalai University
- 2. Dr. G.M. Alagu Lakshmanan** Associate Professor, Dept. of Botany, Thiru Kolanjiappar Government Arts College, Vridhachalam
- 3. Dr. M. Gomathinayagam** Associate Professor, Dept. of Botany, Thiru.A.Govindasamy Government Arts College, Tindivanam
- 4. Dr. M. Chandrasekaran** Assistant Professor, Department of Botany, Arignar Anna Government Arts College, Namakkal.

Programme Schedule

Date	Time			
	10.00 am to 11.00 a.m	11.00 am to 12.00 noon	2.00 pm to 3.00 pm	3.00 pm to 4.00 pm
13.05.2020	Gymnosperms	Plant Molecular Biology	Plant Anatomy	Plant Physiology
14.05.2020	Gymnosperms	Plant Molecular Biology	Plant Anatomy	Plant Physiology
15.05.2020	Gymnosperms	Plant Molecular Biology	Plant Anatomy	Plant Physiology
16.05.2020	Gymnosperms	Plant Molecular Biology	Plant Anatomy	Plant Physiology
17.05.2020	Gymnosperms	Plant Molecular Biology	Plant Anatomy	Plant Physiology

Gymnosperms (Dr. L. Mullainathan)

1. Gymnosperms - Resemblances and Differences with Pteridophytes and Angiosperms.
2. Cycadopsida
3. Coniferopsida
 - i. *Cupressus*
 - ii. *Podocarpus*
 - iii. *Araucaria*
4. Coniferopsida : Ginkgoales
5. Gnetopsida : *Gnetum*

Plant Molecular Biology (Dr. G.M. Alagu Lakshmanan)

1. Nucleic acids biochemistry, Nucleic acids are the genetic material
2. Structure and forms of DNA, Replication of DNA - Part I
3. Replication of DNA - Part II, DNA damage and repairing mechanism
4. DNA related proteins and non-proteins, RNA world - An introduction
5. Fundamentals of Genome, Gene Structure

Plant Anatomy (Dr. M. Gomathinayagam)

1. Simple and complex permanent tissues
2. Meristematic tissues and theories of apical organization
3. Vascular cambium and periderm
4. Normal and anomalous secondary growth of plants
5. Properties and defects of wood

Plant Physiology (Dr.M. Chandrasekaran)

1. Photophosphorylation
2. Photosynthetic Carbon Metabolic Pathways
3. Glycolysis, TCA cycle and Electron Transport System
4. Plant growth substances
5. Plant responses to Environmental stresses

REGISTRATION (Click below Link for registration)

https://docs.google.com/forms/d/e/1FAIpQLSciHJcW82Lgj37xNxZRxNlnp40n9xTjAwd0Avxd4dJWXOQO6Q/viewform?usp=sf_link

Last Date : 11.5.2020

Programme Co-ordinator
Dr. L. Mullainathan
Professor,
Department of Botany,
Annamalai University

Programme Director
Dr. P. Sundaramoorthy
Professor and Head
Department of Botany
Annamalai University

Convener
Dr. K.R. Sankaran
Dean
Faculty of Science
Annamalai University