Programme: M.Sc. Botany

Semester II			
Core V	**Horticulture , Plant breeding and Evolution**		
19PBOC21	**Hrs/week:5**	**Hrs/Semester : 75**	**Credits : 4**

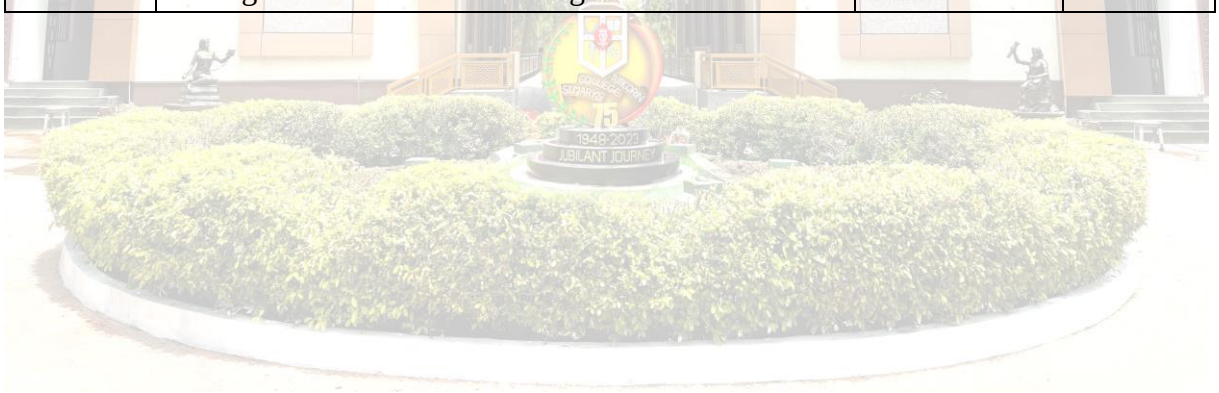
Course Outcome:

CO. No	Upon completion of this course, students will be able to	PSO addressed	CL
CO-1	use the garden implements using in horticultural techniques	4	An
CO-2	identify good and healthy plants and seeds for propagation and develop skill in propagation of useful vegetable, fruit and garden plants.	4	Ap
CO-3	understand basic concepts of gardening and able to layout different types of gardens and suggest plant choices	4	Un
CO-4	understand the use of modern technologies on raising horticultural plants for economic benefits and adapt modern methods of irrigation system in order to conserve water	4, 7	Un
CO-5	equip knowledge on disease management, improved production, storage strategies and business practices.	7	An
CO-6	describe various selection techniques and methods that can be used in genetic improvement of self and cross pollinated crops	6	Ap
CO-7	describe various molecular breeding technique and method that could be used for genetic improvements of crops	2	Ap
CO-8	understand the genetic basis of evolution and evolutionary process	1	Ap

SEMESTER - III			
Core XII	**Ecology and Conservation Biology**		
Course Code: 21PBOC34	**Hrs / Week:5**	**Hrs / Semester: 75**	**Credits:4**

Course Outcome

CO. No	Upon completion of this course, students will be able to	PSO addressed	CL
CO-1	reveal the range of plant diversity in terms of structure, function and their environmental relationships.	3	Un
CO-2	describe the climatic and edaphic factors and ecological succession	2	Un
CO-3	address the global environment crisis and the strategies applicable for environmental problem mitigation	7	Ev
CO-4	learn the global level environmental summit organized that focused for sustainable future	7	Ev
CO-5	know the importance of remote sensing in finding the current status of global health	7	Ev
CO-6	recognize the causes of environmental problems manage and conserve the biological resources	2	Un



SEMESTER IV			
Core XIV	**Horticulture and Seed Technology**		
Course Code: 21PBOC42	**Hrs/week:4**	**Hrs/Semester: 60**	**Credits: 4**

Course Outcome:

CO. No	Upon completion of this course, students will be able to	PSO addressed	CL
CO-1	define the term horticulture, pomology and olericulture and explain about integrated nutrient management	1	Re, Un
CO-2	illustrate different systems of planting in orchard and suggest plant choices	4	Ap
CO-3	demonstrate the methods and types of pruning and explain the basics of soil science and justify the role of soil as a medium for plant growth	4, 7	Un
CO-4	identify the diseases and pest of crops and their management	6	Ap
CO-5	acquire skills & handling operations of different equipment's inseed science laboratory	2	Ap
CO-6	learn the techniques of seed processing for quality up gradation and of storage for maintenance of seed quality.	1	Un

Principal
St. Mary's College (Autonomous)
Thoothukudi-628 001.