

DEPARTMENT OF BOTANY				<i>Diploma Programme</i>				
Sem	Course Type	Course Code	Course Title	Credits	Total Contact Hours	CIA	Ext	Total
I	Diploma	21DB1P1	<b>Gardening Basics Practical</b>	2	30	50	50	100

The following practicals will be conducted in the laboratory and botanical garden of our college.

### **Practicals**

1. Description the plant system.
2. Determination of pH of garden soil.
3. Determination of texture of garden soil.
4. Determination of field capacity of garden soil.
5. Determination of soil moisture of garden soil.
6. Determination of carbonate content of garden soil (qualitative analysis).
7. Nitrate content analysis of garden soil (qualitative analysis).
8. Phosphate content analysis of garden soil (qualitative analysis).
9. Sulphate content analysis of garden soil (qualitative analysis).
10. Chloride content analysis of soil (qualitative analysis).
11. Determination of alkalinity of water for gardening purposes.
12. Garden tools explanation.
13. Preparation of compost using vegetable and fruit wastes.
14. Plant propagation.

### Schedule for the practicals

S. No	TOPIC	Staff Name	Hours	Mode
1.	Description of the plant system	Dr. SG	2	Practical, you tube videos
2.	Determination of pH of garden soil.		2	Practical at lab, you tube videos
3.	Determination of texture of garden soil.		2	Practical at lab, you tube videos
4.	Determination of field capacity of garden soil		2	Practical at lab, you tube videos
5.	Determination of garden soil moisture		2	Practical at lab, you tube videos
6.	Determination of carbonate content of garden soil		2	Practical at lab, you tube videos
7.	Determination of nitrate content of garden soil.		2	Practical at lab, you tube videos
8.	Determination of phosphate content of garden soil		2	Practical at lab, you tube videos
9.	Determination of sulphate content of garden soil		2	Practical at lab, you tube videos
10.	Determination of chloride content of garden soil		2	Practical at lab, you tube videos
11.	Determination of alkalinity of water		2	Chalk and talk You tube videos
12.	Garden tools explanation		3	
13.	Compost preparation using vegetable and fruit wastes		3	Practical at garden, You tube videos
14.	Plant propagation.		2	Practical at garden, You tube videos