

Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)

Structured Work Plan for Teaching

(Dec- 2021 to Apr 2022)

Details of Classes to be taught

Sr. No.	Class	Name of Assit. Prof.	Subject	Paper
1	M.Sc.-II	Mekle R.K	Botany	B.O .4.4: Plant Pathology-III

Summary of Lesson Plan

Name of Teacher: R.K.Mekle

Class: M.Sc.-II (IV Semester)

Sr. No.	Subject	Unit and Chapter to be covered	Date	No. of Lectures	Academic activities to be organized	No. of Test / Assignment with topic and date
	Credit I: Effect of environment on pathogenesis:(15L)	1. Effect of environment, temperature, moisture, humidity, shade, wind, light, pH, O ₂ and CO ₂ concentration. 2. Role of Toxins in Plant pathogenesis: Pathotoxins, Vivo toxins and Phyto toxins. 3. Effect of toxins on plant tissues: Selective and non-selective toxins. 4. Seed Pathology: Scope and importance; seed health testing; methods and procedures; detection of seed borne-fungi, Bacteria and viruses. Seed bio deterioration: Biochemical changes, Morphological abnormalities, loss in germinability. Mycotoxins, Fusarium toxin and aflatoxin. Control of Post-harvest, spoilage of grains.	17-12-21 To 11-01-22	04 01 03 07	Field Visit	Project Work

	Credit- II:Diseases of crop plants-I:(15L)	<p>Symptomology, causal organism and control measures of:</p> <ol style="list-style-type: none"> 1) Sorghum: Long Smut. 2) Chilly: Die back. 3) Soyabean: Charcoal rot. 4) Potato: Stem canker. 5) Tomato: Fusarium Wilt 6) Wheat: Loose Smut 7) Sugarcane: Red Rot 8) Papaya: Leaf Curl 9) Potato: Black Heart. 10) Potato/Flax: Dodder or Cuscuta. 	12-01-22 To 07-02-22	03 02 03 03 01 01 01 01	Guest Lecture	Unit Test-I
	Credit III:Diseases of crop plants II:(15L)	<p>Symptomology,causal organism and control measures of:</p> <ol style="list-style-type: none"> 1) Crucifers: Black spot. 2) Sorghum: Loose smut. 3) Bean: Rust 4)Wheat: Brown Rust. 5) Cucurbits:Powdery mildew. 6)Grapes: Downy mildew. 7) Potato: Late Blight 8) Wheat: Ear cockles. 9) Sugarcane: Mosaic 10) Sandal: Spike. 	08-02-22 To 08-03-22	05 05 03 02	Student Seminar	Unit Test-II
	Credit IV: Genetic Variability:(15L)	<ol style="list-style-type: none"> 1. Genetic Variability in plant pathogen: <ol style="list-style-type: none"> i) Genetic Variability.in viruses ii) Genetic Variability in Fungi iii) Level of variability in pathogen iv) Loss of virulence 2. Genetics and molecular basis of host parasite interaction: <ol style="list-style-type: none"> i) Evolution of parasitism. ii) Genetics of host parasite interaction. 	09-03-22 To 08-04-22	05 04	Group Discussion	Project Submission

	iii) Gene for gene relationship. iv) Criteria for gene for gene relationship. v) Molecular basis of host parasitic interaction. 3. Physiologic specialization: General accounts		04		
			02		

Mekle
Teacher

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