

एस॰ एम॰ कॉलेज चन्दौसी

टेली फैक्स : 05921-252516

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पत्रांक : SMC 532 2021-22

दिनांक: 03.03,2022

सेवा में,

कुलसचिव महोदय, एम०जे०पी० रुहेलखण्ड, विश्वविद्यालय, बरेली, उ०प्र०।

विषयः नवीन शिक्षा नीति—2020 के अनुपालन में महाविद्यालय द्वारा तैयार किया गया एवं संचालित व्यावसायिक पाठ्यक्रम के सन्दर्भ में।

महोदय,

सूच्य है कि नवीन शिक्षा नीति—2020 के अन्तर्गत सत्र 2021—22 से प्रथम वर्ष में प्रवेश लेने वाले प्रत्येक विद्यार्थी को एक व्यावसायिक कोर्स आवंटित किये जाने हेतु निर्देशित किया गया था।

उक्त के अनुपालन में विद्यार्थियों के आवंटित विषयों के पाठ्यक्रम दिनांक 20.11.2021 को अनुमोदन हेतु विश्वविद्यालय में प्रस्तुत किये गये थे जिस पर विश्वविद्यालय द्वारा मौखिक रूप से कृतिपय संशोधन किये जाने की अपेक्षा की गई थी। आपकी अपेक्षा अनुरूप इन पाठ्यक्रमों में संशोधन कर दिये गये हैं। संशोधित पाठ्यक्रम संलग्न सूची—1 के अनुसार विश्वविद्यालय प्रेषित है।

आपसे विनम्न निवेदन है कि संलग्न व्यावसायिक कोर्स के पाठ्यक्रमों को अनुमोदित कर आवश्यक कार्यवाही पूर्ण कर अवगत कराने की कृपा करें।

धन्यवाद!

संलग्नकः उपरोक्तानुसार।

(डॉ० हॅमन्त कुमार) Principal S. M. College Chandausi And Addition

(डॉ० प्रवीण कुमार) समन्वयक— वोकेशनल / रिकल सेल मो० नं०— 9760480884

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Mahatma Jyotiba Phule Rohilkhand University, Bareilly

महात्मा ज्योतिबा फुले रूहेलखण्ड विश्वविद्यालय, बरेली



A State University - Government of U.P.; NAAC Accredited; ISO 9001:2015 Certified

Syllabus for Course Title: Plant Pathology

Name		Designation		Affiliation
Steering	Committee			
Syl	abus Developed by:			
S. No.	Name	Designation	Department	College/ University
1.	Dr. P.B. Tiwary Subject Expert	Associate Professor	Department of Botany	S.M. College, Chandausi, Sambhal
2	Dr. A.K. Buts Subject Expert	Associate Professor	Department of Botany	D.S. College, Aligarh
3	Dr. D.K. Agnihotri Subject Expert	Assistant Professor	Department of Botany	S.M. College, Chandausi, Sambhal

Programme /Class: * Certificate	Year: First	Semester: First	
Course Code:	Course Title: Plan	ıt Pathology	

Course outcomes:

- Job oriented course
- To study the nature properties and occurrence of local plant diseases.
- · To Protect the crop from loses due to diseases
- To produce disease free certified seed production
- Crop improvement and varietal resistance
- To restrict the spared of plant diseases
- Successful Management of plant diseases
- Post-Harvest diseases Management
- Assisting in breeding of disease resistant varieties
- To train the extension workers and subject matter specialist in order to bridge the gap between pathologist and farmers for better crop-production.

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Syllabus of Plant Pathology Theory and Practical

Sem- I :-

	2	Credit hrs
Fundamentals of Plant Pathology		1/30
i	Practical	2/80
		a ē.
Sem- II:-		•
Principles of Plant Pathology		1/30
	Practical	2/80
Sem- III :-		7 .
Introductory Mycology and fungal disease	*	1/30
	Practical	2/80
Sem- IV :-		*
Introductory Bacteriology and bacterial disease		S. Salara Sa
		1/30
	Practical	2/80

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Principal S. M. College Chandausi Dr. D. K. AgnRotti)

<u>Course Name: Plant Pathology / SMC</u> <u>Semester - 1</u>

Course Title: Fundamentals of Plant Pathology

1 Credit 1/30 1. Introduction of Plant Pathology 2. Basic knowledge of plant disease, scope and objectives of plant 3 Pathology. 3. History of plant pathology with special reference to Indian work. 3 3 4. Different terms and concepts of plant pathology. 5. Cause and classification of plant diseases. 6. Important plant pathogenic organisms / symptoms of fungi, bacteria, virus, mycoplasma, nematodes. 5 3 7. Mode of infection. 8. Fungicides and antibiotics. Course Name: Plant Pathology/SMC Semester-II Course Title: Principles of Plant Pathology 1 Credit 1/30 1. Importance, definitions and concepts of plant pathology. 2. Biotic and abiotic causes of plant diseases. 3. Role of environment and host nutrition on disease development. 4. 2 4. Host parasite interaction. 5. Disease development, role of enzymes, toxins, growth regulators. 5 6. Genetic resistance, molecular basis of resistance, genetic engineering 4 for disease resistance. 4. 7. Instrumentation. 8. Culture medium- Types, Preparation and Utility

Principal S. M. Colle Chandaus

(Dr. D. K. Agmkota)

Course Name: Plant Pathology/SMC Semester-III

Course Title: Introductory Mycology

		1 Cr	edit
	· ·	1/30)
1.	Introduction, terms and basic concepts.		3
2.	Importance of mycology in agriculture.		3:
3.	History of mycology.		2 .
4.	Fungal diversity and classification of fungi.		3
	Reproduction in fungi.		3
6.	Comparative morphology, characters of different groups upto ge	neric	P
	level - Ascomycota, Basidiomycota, Deuteromycota, Oomycota.		4.
7.	Lichens and mycorrhiza.	*	2
	Morphological and anatomical symptoms of fungal diseases.	5	3.
	Local Significant fungal diseases, including symptoms, etiology,	•	
	disease-cycle and control		7
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Course Name: Plant Pathology/SMC Semester-IV

Course Title: Introductory Plant Bacteriology

	Course Title, introductory Trans Bacterior	~ DJ
		1 Credit
		1/30
1.	History and introduction to prokaryotic organisms.	3
	Bacterial cell structure, shape, size, flagellation.	3
	Bacterial nutrition, survival and dissemination.	3
4.	Classification and nomenclature of phytopathogenic prokaryotes.	. 3
5	Growth, nutritional requirements, reproduction of phytopathoge	enic
٥.	bacteria.	4
6	Preparation and preservation of bacterial culture.	3
7	General biology of bacteriophage, plasmids.	3
0	Prokaryotic inhibitors and their mode action against phytopathog	genic bacteria.
8.	Prokaryotte inimitation and their mode detroit against Party	2
0	Local significant bacterial disease, viral disease including sympto	ms,
7.	Etiology, disease-cycle and control	6
	Ellology, disease-cycle and constant	
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Suggested Readings:-

1. Pathak, V.N. Esse

Essentials of Plant Pathology

Prakash Pub., Jaipur

2. Agrios; G.N.

Plant Pathology

Acad. Press

3. Singh R S

Plant diseases

Oxford & IBH Pub. Co.

4. Singh R S

Introductions to principals of plant

pathology

5. Mehrotra R S & Aggarwal A Plant Pathology

Tata Mc Graw Hill Publ. Co.

6. Kamat, M.N.

Introductory Plant Pathology

Prakash Pub., Jaipur

7. Dhingra O D & Sinclair J B

Basic Plant Pathology Methods

CRC Press

8. Verma J P, Verma A, Kumar D

Detection of plant pathogens and

their management Angkor Publ.,

New Delhi

Dr. P.B. Liboury

Principal

INCHARGE Principal

S. M. College

Chandausi

S. W. College

Dymhotol Dr. D. K. Agmhotol

Name of External Experts

- 1. Prof. Lalit Mohan Dept. of Botany Kumaun University, Nainital
- 2. Prof. J.K. Tiwari Dept. of Microbiology H.N.B. Garhwal Central University, Srinagar Garhwal
- 3. Dr. S.S. Maurya Govt. PG College, Ramnagar
- 4. Dr. A.K. Buts D.S. College, Aligarh
- 5. Dr. V.K. Maurya

Dept. of Microbiology H.N.B. Garhwal Central University, Srinagar Garhwal

Department of Butany

S. M. College, Chandaust

S. M. College Chandausi

De D.K. Agustota)

PRACTICAL/SKILL TRAINING & TEST

1- Practical work will be based on any contents or topic of syllabus of theoretical paper.

2- Content or topic for all components of practical work shall be decided by subject teacher in

consultation with skill partner.

3- Test or evaluation for practical work will be conducted by skill partner in association/consultation with concerned institution/subject teacher.

ALLOCATION OF MARKS

A- Theoretical Part ---

B- Practical/Skill Part --- 50 C- Training Report- 50

C- Training Report-

100 Marks

INCHARGE. Department of Botany

S. M. College, Chandausi

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Dr. D.K. Agmiloti