Estd. 1962
NAAC 'A' Grade

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शिवाजी वि./अ.मं/ विज्ञान व तंत्रज्ञान/8719 दि.21/08/2019.

प्रति,
वनस्पतीशास्त्र अधिविभागप्रमुख
शिवाजी विद्यापीठ,कोल्हापूर.

विषयः– **(GIAN)** वित्तीय संस्थेअंतर्गत **Deployment of Allelopaty in Sustainable Agriculture** कोर्सच्या अभ्यासक्रमाबाबत.

संदर्भः– आपले दि.14/08/2019 रोजीचे पत्र.

महोदय,

आदेशान्वये आपणास कळविण्यात येते की, वनस्पतीशास्त्र अधिविभागामध्ये **MHRD Scheme on Global Invitiative on Academic Network (GIAN)** या वित्तीय संस्थेने मान्यता दिलेल्या **Deployment of Allelopathy in Sustainable Agriculture** या कोर्सच्या अभ्यासक्रमास विद्यापीठ अधिकार मंडळाने मान्यता दिली आहे.

उपरोक्त बाब सर्व संबंधित शिक्षक व विद्यार्थी यांच्या निदर्शनास आणून दयावी सदरचा अभ्यासक्रम www.unishivaji.ac.in (Online Syllabus) या संकेतस्थळावर उपलब्ध करणेत आलेले आहे.

कळावे,

आपला विश्वासू,

उपकुलसचिव

प्रतः माहितीसाठी .
1. प्रभारी अधिष्ठाता,विज्ञान व तंत्रज्ञान विद्याशाखा
योग्य त्या पुढील कार्यवाहीसाठी
2. परीक्षक नियुक्ती विभाग
3. संलग्नता विभाग
4. संगणक विभाग
5. पात्रता विभाग
6. बी.एस्सी.परीक्षा विभाग
7. वनस्पतीशास्त्र अधिविभागप्रमुख

यांना योग्य त्या पुढील कार्यवाहीसाठी

शिवाजी वि./अ.मं/ विज्ञान व तंत्रज्ञान/8740 दि.22/08/2019.

MHRD Scheme on Global Initiative on Academic Network (GAIN)

Courses Program

Deployment of Allelopathy in Sustainable Agriculture

COURSE 1 : The sustainability? *Understanding and Acting*	
Overview:	The course comprises the following sections: chronology, definitions, sectors concerned with sustainability, responsibilities, conclusion
Objectives :	The course consists of defining sustainability, understanding it perfectly to be able to act. Showing also that the global ecological and social crisis finds its solution in sustainable development
Course details	
Module A:	chronology, definitions,
Module B:	sectors concerned with sustainability, responsibilities, conclusion
Duration:	4 H
COURSE 2 : Allelopathy: history and definition	
Overview:	The course consists of the following parts: chronology, definitions, sectors concerned with allelopathy, conclusion
Objectives :	To realize the history of allelopathy as a natural phenomenon which man has been aware of for centuries, but he has not given a qualifier to this phenomenon. And how scientists began to value it.
Course details	
Module A:	chronology, definitions,
Module B:	sectors concerned with allelopathy, conclusion
Duration:	3 H
COURSE 3 : Research on Allelopathy / Current trends	
Overview:	The course consists of the following parts: Problems arising from the excessive use of pesticides, Weed Management, Fungi management, Insect management, Nematodes management, Soil management
Objectives :	The course highlights the different fields of research where alleopathy could/should be exploited
Course details	
Module A:	Problems arising from the excessive use of pesticides, Weed Management,
Module B:	Fungi management, Insect management, Nematodes management, Soil management
Duration:	3 H
COURSE 4 : Allelopathy and polyploidy	

Overview:	The course includes the following sections: definition of polyploidy, advantages and disadvantages of polyploidy, polyploidy and allelopathy, conclusion
Objectives :	The course shows how to increase the allelopathic potential of plants by polyploidy
Course details	
Module A:	definition of polyploidy, advantages and disadvantages of polyploidy,
Module B:	polyploidy and allelopathy, conclusion
Duration:	3 H
COURSE 5 : Allelopathy and seed priming	
Overview:	The course includes the following parts: definition of priming, different techniques used, advantages and disadvantages, use of plant extracts and allochemicals in seed priming, conclusion
Objectives :	Extend the use of allochemicals in all agriculture aspects
Course details	
Module A:	Definition of priming, different techniques used, advantages and disadvantages,
Module B:	Use of plant extracts and allochemicals in seed priming, conclusion
Duration:	3 H
COURSE 6 : Allelopathy and sustainable agriculture	
Overview:	The course includes the following parts: definition of sustainable agriculture, principles of sustainable agriculture, producer and consumer responsibility, exploitation of allelopathy in sustainable agriculture
Objectives :	Exploiting allelopathy in sustainable agriculture
Course details	
Module A:	definition of sustainable agriculture, principles of sustainable agriculture, producer and consumer responsibility,
Module B:	exploitation of allelopathy in sustainable agriculture
Duration:	2 H
COURSE 7 : Allelopathy and organic agriculture	
Overview:	The course includes the following parts: definition of organic agriculture, principles of organic agriculture, producer and consumer responsibility, exploitation of allelopathy in organic agriculture
Objectives :	Exploiting allelopathy in organic agriculture
Course details	
Module A:	definition of organic agriculture, principles of organic agriculture, producer and consumer responsibility
Module B:	exploitation of allelopathy in organic agriculture
Duration:	2 H
COURSE 8 : Allelopathy and crop mixture	

Overview:	The course includes the following parts: definition of crop mixture, exploitation of allelopathy in crop mixture, exemples
Objectives :	How to use the allelopathic potential of plants in crop mixture
Course details	
Module A:	definition of crop mixture, exploitation of allelopathy in crop mixture, exemples
Module B:	
Duration:	2 H
COURSE 9 : Allelopathy and crop rotation	
Overview:	The course includes the following parts: definition of crop rotation, exploitation of allelopathy in crop rotation, exemples
Objectives :	How to use the allelopathic potential of plants in crop rotation
Course details	
Module A:	definition of crop rotation, exploitation of allelopathy in crop rotation, exemples
Module B:	
Duration:	2 H
COURSE 10 : Allelopathy and crop production	
Overview:	The course includes the following parts: definition of crop production, exploitation of allelopathy in crop production, exemples
Objectives :	How to use the allelopathic potential of plants in crop production
Course details	
Module A:	definition of crop rotation, exploitation of allelopathy in crop production, exemples
Module B:	
Duration:	2 H
COURSE 11 : Allelopathy and soil sickness	
Overview:	The course includes the following parts: definition of the soil sickness, history, effect on microorganisms, effect on crop production, causes of soil sickness, allelochemicals in soil sickness,
Objectives :	Relationship between soil sickness and allelopathy
Course details	
Module A:	definition of the soil sickness, history, effect on microorganisms, effect on crop production,
Module B:	causes of soil sickness, allelochemicals in soil sickness,
Duration:	2 H
COURSE 12 : Allelopathy of aquatic plants	
Overview:	The course includes the following parts: Characteristics of aquatic plants,

	allelopathy of these plants, exemples
Objectives :	Exploitation of aquatic bioresources
Course details	
Module A:	Characteristics of aquatic plants, allelopathy of these plants, exemples
Module B:	
Duration:	2 H
COURSE 13 : Methodology in allelopathy research 1	
Overview:	The course includes the following parts: bioassays for plant-plant interactions, plant-microorganisms interactions, plant-phytophagous interactions
Objectives :	Description of bioassays to evaluate phytotoxicity of plant extracts
Course details	
Module A:	bioassays for plant-plant interactions, plant-microorganisms interactions,
Module B:	plant-phytophagous interactions
Duration:	3 H
COURSE 14 : Methodology in allelopathy research 2	
Overview:	The course includes the following parts: description of methods to extract, purify and identify allelochemicals, dtermination of allelochemicals mode of action
Objectives :	
Course details	
Module A:	description of methods to extract, purify and identify allelochemicals
Module B:	dtermination of allelochemicals mode of action
Duration:	3 H