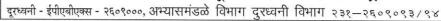


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शिवाजी विद्यापीठ, कोल्हापूर - ४१६००४,महाराष्ट्र





SU/BOS/Science/

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Date: 18/10/2022

To,

The Principal, All Affiliated Concerned Science Colleges/Institutions Shivaji University, Kolhapur.

Subject: Regarding syllabi of B. Sc. Part- I (NEP-2020) degree programme under the Faculty of Science and Technology as per National Education Policy 2020.

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the university authorities have accepted and granted approval to the syllabi and Nature of question paper of B. Sc. Part- I Information Technology under the Faculty of Science and Technology as per National Education Policy 2020.

Sr. No. Faculty of Science and Technology		Programme/ Course B. Sc. Part- I		
1	Zoology	Skill Based Course in Sericlture (Skill Enhancement Courses)		
		Skill Based Course in "Vermicompost" (Skill Enhancement Courses)		
		Skill Based Course in Apiculture(Skill Enhancement Courses)		

This syllabi and nature of question paper shall be implemented from the Academic Year **2022-2023** onwards. A soft copy containing the syllabus is attached herewith and it is also available on university website www.unishivaji.ac.in (students Online Syllabus)

You are, therefore, requested to bring this to the notice of all students and teachers concerned.

Thanking you,

Yours faithfully

Dy Registrar

Copy to:

-	T		
1	The Dean, Faculty of Science & Technology		Appointment Section
2	Director, Board of Examinations and Evaluation	8	P.G.Seminar Section
3	The Chairman, Respective Board of Studies	9	Computer Centre (I.T.)
4	B.Sc. Exam	10	Affiliation Section (U.G.)
5	Eligibility Section	11	Affiliation Section (P.G.)
6	O.E. I Section		P.G.Admission Section

Proposed Syllabus

Skill Based Course in "Vermicompost"

Unit-I 15 hrs

1) General Vermiculture / Vermicompost- Introduction to Vermiculture, Definition, History, Habitat diversity, Ecology, Various species of Earthworms (Endemic and Exotic) suitable for vermicomposting , Economic importance of earthworms , Key to identify Species of Earthworms .

Practical-

- i) Field trip for collection of endemic species of earthworms.
- ii) Scientific classification of Earthworms
- ii) Different types of earthworms species- Demonstration with the help of key.
- **2) Earthworm biology -** Biology of *Pheritima posthuma* (Indigenous or Indian earthworm), Systematic position, Habit and habitat, External features, Locomotion, Digestive system and Physiology of digestion, Reproductive system- Male and Female reproductive system, Copulation, Fertilization and Cocoon formation.

Practical- Demonstration of-

- i) External morphology of earthworm Pheritima posthuma.
- ii) Digestive system.
- iii) Male Reproductive system.
- iv) Female Reproductive system.

v) Demonstration of life cycle and development.

Unit-II 15 hrs

3) Vermicompost technology (Methods and Products)-

Small scale vermicompost unit, Vermicompost from kitchen waste, Large scale commercial vermicompost farming, Preparation of vermiculture bed, Basic requirements for prepation of vermicompost and vermiwash, , Chemical composition of vormicompost and vermiwash.

Practical-

- -Study of small scale vermicompost and vermiwash equipments Pot, Wooden box, Crate etc.
- **4) Applied Vermiculture-** Effect of vermiwash on crop yield and quality of crops, Enemies of Earthworms, Economic Importance of vermicompost and vermiwash.

Practical-

- i)Study of effect of Vermicompost and vermiwash on any two short duration crops
- ii) Study of Enemies of Earthworms- Red ants, Carnivorous birds,
- iii) Demonstration of vermicompost and vermiwash