Estd. 1962
"A++" Accredited by NAAC(2021)
With CGPA 3.52

SHIVAJI UNIVERSITY, KOLHAPUR - 416004,
MAHARASHTRA
PHONE : EPABX – 2609000,
www.unishivaji.ac.in, bos@unishivaji.ac.in
शिवाजी विद्यापीठ, कोल्हापूर - ४१६००४,महाराष्ट्र
दूरध्वनी - ईपीएबीएक्स - २६०९०००, अभ्यासमंडळे विभाग दुरध्वनी विभाग २३१–२६०९०९३/९४

SU/BOS/Science/

Date: 23 - 08- 2022

No 0 0 5 3 3

To,

The.
Head, Department of Botany.
Shivaji University, Kolhapur.

Subject : Regarding syllabi of (Value Added Course) under The Faculty of Science and Technology.

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 Value Added Course under the Faculty of Science and Technology.

Value Added Course			
Sr. No.	**BOS**	**Old Title**	**New Title**
1.	Botany	Plant Taxonomy and Cytogenetics	Synthesis and processing of Data in Sciences

This syllabi and equivalence 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**) (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:

1	The Dean, Faculty of Science & Technology	7	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	12	P.G.Admission Section

Department of Botany, Shivaji University, Kolhapur

CURRICULUM/SYLLABUS OF THE PROPOSED VALUE-ADDED COURSE/WORKSHOP/ TRAINING PROGRAM

17-21 August 2022 (Tentative Schedule)

Synthesis and Processing of Data in Plant Sciences

Unit I:

Plant taxonomy and Cytogenetics

Plant taxonomy: Definition, branches, data collection (morphology, anatomy, cytology, chemistry, molecular biology)

Cell division: Meiosis, Mitosis, Karyotype: Definition, process, types and applications

Microscopy: Concept, types, principle and applications, sample preparation in Scanning electron microscope (SEM)

Unit II:

Biostatistics: Definitions, types of data, methods of data collection, analysis of data (correlation, analysis of variance, principal component analysis

Separation technique: Concept, HPLC: Principles, sample preparation, applications

Academic writing: Defining topic, planning research, resources, outline, writing of research paper, source citation