

Anekant Education Society's
Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati
(Autonomous)
(Affiliated to Savitribai Phule Pune University, Pune)

A REPORT
MEETING OF BOARD OF STUDIES IN BOTANY

The **Third Online Meeting** of Board of Studies in Botany was held on 06th April, 2021 during 12.00 noon to 02.00 pm.

AGENDA

1. To design the syllabi and academic framework of **Semester-V of T.Y.B.Sc. Botany**.
2. Any other matter with the permission of the chair.

The following BoS members were present for the meeting :

1. Dr. Chandrashekhar Murumkar – Hon. Principal
2. Dr. Shashikant Chavan – BoS Chairman
3. Dr. Bhagawan Mali - Member
4. Dr. Mahadev Kanade - Member
5. Dr. Ajit Telave - Member
6. Dr. Rupali Chitale - Member
7. Dr. Smt. Madhuri Patil – Member
8. Dr. V. B. Shimpale - Member (Expert from other university)
9. Dr. M. V. Gokhale - Member (Expert from other university)
10. Dr. V. V. Kedage - Member (Representative from Industry)
11. Dr. B.P. Kalgaonkar - Member (Meritorious Alumni)
12. Dr. G. C. Nikalje - Member (Invitee) (Meritorious Alumni)
13. Dr. H. S. Patil (Invitee)
14. Mr. Juned Bagwan (Invitee)

The following issues were discussed during the meeting :

1. Already syllabi e-copies were sent to BoS members on their personal mail and then Google Meet organized to discuss critical issues regarding the theory and practical syllabi of T.Y.B.Sc. Botany.

2. At the beginning of the meeting welcome speech was delivered by Dr. S. J. Chavan.
3. After welcome speech agenda of the meeting in detail was discussed by Hon. Prin. Dr. C. V. Murumkar.
4. Dr. S. J. Chavan explained the titles of T.Y.B.Sc. and unanimously the titles of T.Y.B.Sc. were finalized (**Please see the Annexure - I**).
5. T.Y.B.Sc., Semester - V, Papers were discussed following faculty :

Paper Code	Title of Paper	Teacher In-charge
BOT3501	Cryptogamic Botany	Dr. M. B. Kanade
BOT3502	Spermatophyta and Palaeobotany	Dr. S. J. Chavan
BOT3503	Cell and Molecular Biology	Dr. R. D. Chitale
BOT3504	Industrial Botany	Dr. M. P. Patil
BOT3505	Biostatistics	Dr. B. S. Mali
BOT3506	Research Methodology	Dr. A. B. Telave
BOT3607	Practical based on BOT3501 to BOT3506	Dr. M. B. Kanade
BOT3608	Practical based on BOT3601 to BOT3606	Dr. R. D. Chitale
BOT3609	Project	Dr. M. P. Patil

6. After discussion the syllabi the following suggestions given by BoS members :

Paper	BoS Member	Suggestions
Cryptogamic Botany	Dr. B. P. Kalgaonkar	<ul style="list-style-type: none"> • Add <i>Plagiochasma</i> in Bryophytes syllabus.
	Dr. M. V. Gokhale	<ul style="list-style-type: none"> • <i>Riccia</i> can be add in Bryophytes syllabus.
Spermatophyta and Palaeobotany	Dr. H. S. Patil	<ul style="list-style-type: none"> • Bentham and Hooker's classification can be added.
	Dr. M. V. Gokhale	<ul style="list-style-type: none"> • Applications - oil exploration can be added
Cell and Molecular Biology	Dr. G. C. Nikalje	<ul style="list-style-type: none"> • More advanced techniques should be added.
Industrial Botany	Dr. V. B. Shimpale	<ul style="list-style-type: none"> • J. C. Bose Botanical Garden can be added.
	Mr. Juned Bagwan	<ul style="list-style-type: none"> • Use of seed dressing techniques can be added in post harvest processing.
	Dr. B. P. Kalgaonkar	<ul style="list-style-type: none"> • Transportation of post harvest product by cold storage can be added.
	Prin. Dr. C.	<ul style="list-style-type: none"> • Scope of gardening can be added

	V. Murumkar	
Biostatistics	Prin. Dr. C. V. Murumkar	<ul style="list-style-type: none"> Syllabus of this paper should be reduced.
	Dr. M. V. Gokhale	<ul style="list-style-type: none"> Carbon sequestration – concept, Use of computer and Examples of softwares can be added.
Research Methodology	Prin. Dr. C. V. Murumkar	<ul style="list-style-type: none"> Students can understand basics of research, preparation of manuscript, review article and project report.
Practical based on BOT3501 to BOT3506	Dr. H. S. Patil	<ul style="list-style-type: none"> Study of <i>Marsilea</i> can be added
	Dr. M. V. Gokhale	<ul style="list-style-type: none"> Field visit number can be reduced.
Practical based on BOT3601 to BOT3606	---	<ul style="list-style-type: none"> No any suggestions
Project	Dr. G. C. Nikalje	<ul style="list-style-type: none"> Research ethics aspect can be added

7. At the end of meeting Dr. M. B. Kanade extended vote of thanks.

Dr. Shashikant J. Chavan
Head, Department of Botany
Chairman, BoS Botany

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SYLLABUS (CBCS) FOR T. Y. B. Sc. BOTANY (w.e. from June, 2020)

Semester - V

Semester	Paper	Title of Paper	Credits
V	BOT3501	Cryptogamic Botany (Algae, Fungi, Bryophytes and Pteridophytes)	03
	BOT3502	Spermatophyta and Palaeobotany	03
	BOT3503	Cell and Molecular Biology	03
	BOT3504	Industrial Botany	03
	BOT3505	Biostatistics	03
	BOT3506	Research Methodology	03
Annual	BOT3607	Practical based on BOT3501 to BOT3505	04
Annual	BOT3608	Practical based on BOT3601 to BOT3606	04
Annual	BOT3609	Project	04

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A REPORT
MEETING OF BOARD OF STUDIES IN BOTANY

The **Fourth Online Meeting** of Board of Studies in Botany was held on 04th December, 2021 during 12.00 noon to 02.00 pm.

AGENDA

3. To design the syllabi and academic framework of **Semester-VI of T.Y. B.Sc. Botany**.
4. Any other matter with the permission of the chair.

The following BoS members were present for the meeting :

15. Dr. Chandrashekar Murumkar – Hon. Principal
16. Dr. Shashikant Chavan – BoS Chairman
17. Dr. Bhagawan Mali - Member
18. Dr. Mahadev Kanade - Member
19. Dr. Ajit Telave - Member
20. Dr. Rupali Chitale - Member
21. Dr. Smt. Madhuri Patil – Member
22. Dr. V. B. Shimpale - Member (Expert from other university)
23. Dr. M. V. Gokhale - Member (Expert from other university)
24. Dr. V. V. Kedage - Member (Representative from Industry)
25. Dr. B.P. Kalgaonkar - Member (Meritorious Alumni)
26. Dr. G. C. Nikalje - Member (Invitee) (Meritorious Alumni)
27. Dr. H. S. Patil (Invitee)
28. Mr. Juned Bagwan (Invitee)

The following issues were discussed during the meeting:

8. Already syllabi e-copies were sent to BoS members on their personal mail and then Google Meet organized to discuss critical issues regarding the theory and practical syllabi of T.Y. B.Sc. Botany.

9. At the beginning of the meeting welcome speech was delivered by Dr. S. J. Chavan.
10. After welcome speech agenda of the meeting in detail was discussed by Hon. Prin. Dr. C. V. Murumkar.
11. Dr. S. J. Chavan explained the titles of T.Y. B.Sc. and unanimously the titles of T.Y. B.Sc. were finalized (**Please see the Annexure - I**).
12. T.Y. B.Sc., Semester - VI, Papers were discussed by following faculty :

Paper Code	Title of Paper	Teacher In-charge
BOT3601	Plant Physiology and Biochemistry	Dr. M. P. Patil
BOT3602	Plant Biotechnology	Dr. B. S. Mali
BOT3603	Genetics and Plant Breeding	Dr. R. D. Chitale
BOT3604	Plant Pathology	Dr. M. B. Kanade
BOT3605	Pharmacognosy	Dr. S. J. Chavan
BOT3606	Botanical Techniques	Dr. A. B. Telave
BOT3607	Practical based on BOT3601 to BOT3603	Dr. M. B. Kanade
BOT3608	Practical based on BOT3604 to BOT3606	Dr. R. D. Chitale
BOT3609	Project	Dr. M. P. Patil

13. After discussion the syllabi the following suggestions given by BoS members :

Paper	BoS Member	Suggestions
Plant Physiology and Biochemistry	Prin. Dr. C. V. Murumkar	<ul style="list-style-type: none"> • Add modern concept of thylakoid membrane, photolysis of water • In Biochemisry, add introduction and role of carbon and water molecule • Add mechanism of germination and senescence
Plant Biotechnology	Dr. V. B. Shimpale	<ul style="list-style-type: none"> • Add In situ and Ex situ conservation of Germplasm
	Dr. M. V. Gokhale	<ul style="list-style-type: none"> • In credit III, sequence of units can be changed
Genetics and Plant Breeding	Mr. Juned Bagwan	<ul style="list-style-type: none"> • Add Breeding for heat tolerance
	Prin. Dr. C. V. Murumkar	<ul style="list-style-type: none"> • Add plastid genome in breeding for stress tolerance
Plant Pathology	Prin. Dr. C. V. Murumkar	<ul style="list-style-type: none"> • Add mechanism of disease development • Rearrange points in credit II

Pharmacognosy	Prin. Dr. C. V. Murumkar	<ul style="list-style-type: none"> Syllabus of this paper should be reduced.
	Dr. H. S. Patil	<ul style="list-style-type: none"> Add naturopathy and aromatherapy Add castor in seed drugs
Botanical Techniques	Prin. Dr. C. V. Murumkar	<ul style="list-style-type: none"> Add preservation techniques in lower and higher plants, acetolysis Add radiation, leaf fluorescence, flame photometer, radioactivity
Practical based on BOT3601 to BOT3603	---	<ul style="list-style-type: none"> No any suggestions
Practical based on BOT3604 to BOT3606	---	<ul style="list-style-type: none"> No any suggestions
Project	Dr. G. C. Nikalje	<ul style="list-style-type: none"> Research ethics aspect can be added

14. At the end of meeting Dr. B. S. Mali extended vote of thanks.

Dr. Shashikant J. Chavan
Head, Department of Botany
Chairman, BoS Botany

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SYLLABUS (CBCS) FOR T. Y. B. Sc. BOTANY (w.e. from 2021- 22)

Semester - VI

Semester	Paper	Title of Paper	Credits
VI	BOT3601	Plant Physiology and Biochemistry	03
	BOT3602	Plant Biotechnology	03
	BOT3603	Genetics and Plant Breeding	03
	BOT3604	Plant Pathology	03
	BOT3605	Pharmacognosy	03
	BOT3606	Botanical Techniques	03
	BOT3607	Practical based on BOT3601 to BOT3603	02
	BOT3608	Practical based on BOT3604 to BOT3606	02
	BOT3609	Project	02