

**B. K. Birla College of Arts, Science and Commerce (Autonomous),
Kalyan**

Board of Studies (Department of Botany)

Date: 17th May, 2021

The Board of Studies online meeting of Botany held on Monday, the 17th May, 2021 at 03.00 pm on Microsoft Teams Platform.

Following members were present for the meeting.

Dr. Meeta Bhot Head, Dept. of Botany, B. K. Birla College (Autonomous), Kalyan	Chairperson, BoS
Dr. Naresh Chandra Director, Education B. K. Birla College (Autonomous), Kalyan	
Dr. Avinash Patil Principal, B. K. Birla College (Autonomous), Kalyan	Member BoS
Dr. G. T. Paratkar R&D Advisor, Neutrahelix Biotech, Turbhe and Former Principal, KET's Vaze College, Mumbai	Subject Expert from outside the parent university
Dr. Rajendra Shinde Principal, St. Xavier's College (Autonomous), Mumbai	Subject Expert (Vice Chancellor's nominee)
Dr. Ramakant Harlalka Director Nishant Aroma, Palghar	Representative from industry
Dr. Anil Avhad Associate Professor, R. J. College (Autonomous), Ghatkopar, Mumbai	Alumni Representative



The leave of the absence was granted to:-

- a) **Prof. K. S. Laddha**, Professor, Pharmaceutical Science and Technology, ICT, Mumbai.
- b) **Dr. Usha Mukundan**, Director HVPS and former Principal, R. J. College (Autonomous), Ghatkopar, Mumbai

The agenda for the meeting was as follows:

1. Item No.1

To approve the syllabus of UG and PG Botany and recommend to academic council, University of Mumbai.

2. Item no.2

To approve the proposed syllabus of MSc in Nutraceuticals and B.Sc. Hons. (Integrative Nutrition & Dietetics)

3. Item No.3

Appreciation of Board of Studies members for their contribution in preparation of syllabus.

4. Item No. 4

Any other item with the permission of the Chair.

Dr. Meeta Bhot gave the welcome address and Dr. Naresh Chandra sir also addressed the meeting at the beginning.

Dr. Meeta Bhot, Head of Botany gave the detailed presentation of UG and PG Botany and also the new course to be introduced of M.Sc. in Food Science and Nutraceuticals proposed for the Academic year 2021-22 were discussed.

The following points were suggested at UG and PG level in Botany Syllabus:

Dr. G.T. Paratkar Sir suggested

- Include various factors for enzyme Kinetics, Lineweaver–Burk plot, etc in T.Y.B.Sc (Sem VI) Paper III Unit I (Plant Biochemistry).
- Add details about Aromatic plants and essential oil in T.Y.B.Sc (Sem VI) Paper IV Unit IV (Plant Resource Management and Utilization).

- Introduction to Algal Biotechnology, Pigmentation (Algal Pigmentation) in M.Sc Part, I (Sem I) Applied Algae. Suggested name of Dr Deodhar from Vaze college, and to hv discussion with NIO Goa
- To keep continuation of Molecular Biology from B.Sc to M.Sc
- To include RT-PCR in Instrumentation in M.Sc Part II (Sem IV) Paper I Unit III (Tracer techniques & PCR).
- To ensure that all the references for the topics added are available and also suggested register for Research journals that are available online.

Dr. Ramakant Harlalka Sir suggested

Give few small projects or assignments to UG and PG students related to plants used in cosmetics , fragrances ,flavors *Ocimum*, *Mentha* etc

Dr. Rajendra Shinde Sir suggested

- Maintain continuity in Units from F.Y, S.Y and T.Y.B.Sc
- Include introduction of Bioremediation, Role of microbes in Bioremediation in T.Y.B.Sc (Sem V) Paper III Unit III (Environmental Botany).
- Comparative study of Asclepiadaceae and Orchidaceae, Role of pollinia in T.Y.B.Sc (Sem VI) Paper II Unit I (Angiosperms II).
- Include Scitaminae along with Orchidaceae in practicals

Dr. Anil Avhad Sir suggested

- Specify the Secondary metabolites to be added in F.Y.B.Sc (Sem II) Paper II Unit III (Medicinal Botany).
- Add Funaria topic in Theory or Practical
- To mention the complete name of seeds in syllabus in T.Y.B.Sc (Sem V) Paper IV Unit IV (Pharmacognosy and Medicinal Botany).

The following points were suggested for M.Sc Food Science and Nutraceuticals syllabus

Dr. G.T. Paratkar Sir suggested

- To include functional food practicals
- To add Reverse Transcriptase in Genetics
- Include Nutritional analysis parameters, Methods to calculate Calories, Shelf-life study of food products, Polysaccharide extraction from plant source in practicals
- Include Gluten in protein unit

Syllabus for B.Sc. Hons. (Integrative Nutrition & Dietetics) was also presented to the members for their recommendation.

Dr Naresh Chandra, Director, B. K. Birla College gave concluding remarks and appreciated all members for their contribution to the preparation of the syllabus.

There being no other matter the meeting was concluded with vote of thanks by chairperson Dr. Meeta Bhot.



MABhot

Dr. Meeta Bhot