

Mapping of the courses to Employability



Hindi Vidya Prachar Samiti's
Ramniranjan Jhunjhunwala College
Of Arts, Science & Commerce
(Autonomous College)

Affiliated to
UNIVERSITY OF MUMBAI

Mapping of the courses to Employability

Program: B.Sc. BOTANY

Program Code: RJSUBOT

(CBCS 2020-2021)

Mapping of the courses to Employability

Mapping of the courses to Employability / Entrepreneurship / Skill Development

Name of the Program **B.Sc Botany**

Class	Course Name	Course Code	Topics focusing on Employability / Entrepreneurship / Skill development	Employability / Entrepreneurship / Skill development
FYB Sc S Y B Sc T Y B Sc	Botany	RJSUBOT101, 201, 301, 401,501,502,601,602	Plant Diversity I,II, III,IV focuses on identification of plants ranging from microbes, algae, fungi to Angiosperms each of this helps in proper identification and strain selection this finds employability opportunities in industries involved in production of single cell proteins, industrial enzymes, antimicrobial agents, phytochemicals and natural products	1. Employability skills in sourcing proper plant material for product development
FYB Sc S Y B Sc T Y B Sc	Botany	Forms and Functions I, II, III RJSUBOT102, 202, 302, 402,503, 603	Concepts in anatomy, physiology, genetics, ecology are essential to teach the subject they are the building blocks for research in the subject	1. Employability in field of teaching, research. 2. Writing Skills 3. Analytical Skills 4. Interpretation Skills
S Y B Sc T Y B Sc	Botany	Current trends in Plant Sciences I, II: RJSUBOT303,403, 504,604	Instrumentation, Economic Botany, Biotechnology, Horticulture, Biostatistics, Bioinformatics, postharvest technology, plant tissue culture,	1. Analytical Skills 2. Interpretation Skills 3. Aesthetic Skills

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FYB Sc S Y B Sc T Y B Sc	Botany	Practical's Plant Diversity I, II, III and IV RJSUBOTP101, RJSUBOTP201, RJSUBOTP301, P401, P501, P601, P602	Microscopical identification of organisms ranging from microbes, algae, fungi, identification of higher forms using morphological studies, field studies,	1.Organisational skills, record keeping 2. Analytical Skills 3. Interpretation Skills 3. Aesthetic Skills
FYB Sc S Y B Sc T Y B Sc	Botany	Practical's Forms and Functions I, II, III and IV RJSUBOTP102, RJSUBOTP202, RJSUBOTP301, P302, P401, P503, P603	Skills in sectioning, sampling, use of instruments, calibration, preparation of standard solutions, stocks.	1Skill enhancement 2 Employability as technician in laboratories
S Y B Sc T Y B Sc	Botany	Practical's Current Trends in Plant Sciences: I RJSUBOTP303, P403, P504, P604	Gardening, plant tissue culture, mushroom cultivation, medicinal botany, pharmacognosy, postharvest technology, extraction of essential oils, handling various analytical instruments	Entrepreneurship in the field of horticulture, nursery management, analysis of crude drugs, natural products development
T Y B Sc	Botany	Applied Component Environmental Science RJSUEVS505, RJSUEV605	Indian Ecological issues, environmental pollution, sustainable energy resources and green chemistry. Ecological restoration, conservation, ecotourism, climate change and disaster management	Employability skills in areas of Environmental impact assessment, teaching skills for environmental science in school, to work with NGO imparting environment education Skills to develop concern for environment in every action
T Y BSc		Applied component Environmental Science	Estimation of parameters of soil and water, use of instruments for measuring environmental factors like	Analytical skills Interpretation skills

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Practicals RJSUEVSP505, RJSUEVSP605	light, sound, temperature, relative humidity etc. Project and dissertation for teamwork, application, and interpretation	Technical skills for employability in research laboratory, environment projects. NGO, testing laboratories, Entrepreneurship to start own laboratory, consultancy
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