

B.L.D.E Association's

S.B. Arts and K.C.P. Science College, Vijayapur,

DEPARTMENT OF BOTANY

“TUTORIALS”

2015-2016

B.L.D.E Association's

S.B. Arts and K.C.P. Science College, Vijayapur,

Department of BOTANY

NOTICE

Date :09/07/2015

It is hereby informed that the Tutorial classes will be held to the BSc I,III and V semester students from 12/07/2015. The timetable will be displayed on the notice board . All the students must attend the classes .



HEAD

Department of Botany
SB Arts & KCP Science College
VIJAYAPUR-586103.



Principal,

S.B.Arts & K.C.P. Science College,
VIJAYAPUR.



IQAC, Co-ordinator

S.B.Arts & K.C.P.Science College,
Vijayapur.

TIME-TABLE FOR TUTORIALS

2015-2016

TIME	SUNDAY		
11:30- 12:30 PM	BSc I semester	BSc III semester	BSc V semester
1:00-2:00 PM	BSc I semester	BSc III semester	BSc V semester


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RE – ACCREDITED AT THE 'A' LEVEL, IN 3rd CYCLE

Phone: (08352) – 261766, (08352) 262770 Extn. 2223, 2224

Fax: 08352 – 261766 E-mail: bldeasbkcp@gmail.com



DEPARTMENT OF BOTANY

ATTENDANCE LIST FOR TUTORIALS (2015-2016)

CLASS : BSC I SEMESTER

FACULTY NAME : *prof. L.L. Madhwar*
Dr M.B. Mulla

Sl.No.	Name of the Student	12/7/15	19/7/15	26/7/15	2/8/15	9/8/15	16/8/15	23/8/15
1	Rajkumar Shivanna Bhairashetti	P	P	P	P	P	P	P
2	Mahesh Gangaram pawar	P	P	P	P	P	A	P
3	Sheetalkumar Padmanabha Gongadi	A	P	P	P	P	P	P
4	Vishal Vittal Biradar	P	P	P	P	A	P	P
5	Lalasaheb Davalaso Nadaf	P	P	P	P	P	A	P
6	Vilas Abhimanya Kamble	P	A	A	P	P	P	P
7	Rohini Murughendra vastrad	P	P	P	P	P	P	P
8	Mohammadjuber Shahajahan Dhundasi	A	P	P	A	P	P	P
9	Awashankh Janakaraj Iranna Awashankh	P	A	A	P	P	P	P
10	Poornima Sahebgouda Gouri	P	P	P	P	P	P	A
11	Hanamant Ashok Dhumale	A	P	P	P	P	P	P
12	Sandya Motilal Rathod	P	P	P	A	P	P	P
13	Kavya Motilal Rathod	P	P	P	P	P	P	P
14	Mushtaq Abdul Saleem	P	P	P	P	P	P	P
15	Priya Vijayakumar Kaladagi	P	P	P	P	P	P	P
16	Sunilkumar Amasidda Tambe	A	P	P	P	P	P	A
17	Chanabasayya Shambhulingayya Hiremath	P	P	P	P	P	P	P
18	Basayya Mallikarjun Hiremath	A	P	P	P	P	P	P
19	Mahesh Dhareppa Umadi	P	P	P	P	P	A	P
20	Bibizahera Gousemohadin Bevanur	P	P	P	P	P	P	P
21	Vijayalaxmi Gopal Kumber	P	P	P	P	P	P	P
22	Bhuvaneshwari Ramesh kotin	A	P	P	A	P	P	P
23	Savitri Suresh Mudalagi	A	P	P	P	P	P	P
24	Shruti Basavaraj Masali	P	P	P	P	P	P	A
25	Tanuja Danesh Vagoli	A	P	P	P	P	P	P
26	Laxmi Sadashiv Junjarawad	P	P	P	P	P	P	P
27	Deepa Mukund Kamble	P	P	P	P	P	P	P
28	Sneha Arjun Pangdwale	A	P	P	P	P	P	P
29	Prabhakar Shivanand Bhandarakavte	P	P	A	P	P	P	P
30	Siddharam Chandrashekhkar Kottalagi	P	A	P	P	P	P	P

M.B. Mulla
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W
Principal,

S.B. Arts and KCP Science College
 VIJAYAPUR

31	Rahul Gangadhar Kolli	D	P	P	P	P	P	P
32	Rohan Dundappa Bellundagi	A	P	A	P	A	P	P
33	Laxmi Appasaheb Modi	P	P	P	P	P	P	P
34	Bheemanagouda Gurulingappagouda Patil	A	P	P	P	P	P	P
35	Roopa Madiwalappa Awati	P	P	P	P	P	P	P
36	Dhareppa Nagappa Manami	A	P	P	A	A	P	A
37	Manjunath Arjun Jarale	P	P	P	P	P	P	P
38	Harsha Dattatreya Belagali	P	P	P	P	P	P	P
39	Ravi Arjun Gaded	P	A	P	P	P	P	P
40	Ramya Ramachandra Badiger	P	P	P	P	P	P	P
41	Priyanka Rajendra Ratnakar	P	P	P	A	P	P	P
42	Megha Ashok Kanavi	P	P	P	P	P	P	P
43	Santosh Savayi Chavan	P	A	P	P	A	P	P
44	Vijeeta Laxman Thoravi	P	P	P	P	P	P	P
45	Laxmeekant Doddappa Hunachyal	A	P	P	A	P	P	P
46	Sandhya Shankar Naik	P	P	P	P	P	P	P
47	Rahul VijayKumar Rathod	P	P	P	P	P	P	P
48	Pooja Krisnamurti Khamitkar	A	P	P	P	P	A	P
49	Sushmita A T Amresh B T	A	A	P	P	P	P	P
50	Iramma Siddanagouda Hiregoudra	A	P	P	P	P	P	A


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DEPARTMENT OF BOTANY
ATTENDANCE LIST FOR TUTORIALS (2015-2016)

CLASS : BSC III SEMESTER

FACULTY NAME : Dr M.B. Mulgani
 Dr Geetha Kulakarni

Sl.No.	Name of the Student	12/7/15	19/7/15	26/7/15	2/8/15	9/8/15	16/8/15	23/8/15
1	SAHANA . SANJEEV . PUROHIT	P	A	P	P	P	P	A
2	SHREYA . UDAY . PATIL	P	P	P	P	P	P	P
3	REVATI . BHUPAL . KANDIBAL	A	P	P	A	P	P	P
4	ASHWINI . S.HARIWAL . HARIWAL	P	P	P	P	P	P	A
5	ANAND . BHIMARAYA . HALLI	P	P	A	P	A	P	P
6	RICHA . RAMCHANDRA . PAWAR	P	P	P	P	P	P	P
7	SMEETA . RAYAGOND . BIRADAR	P	A	P	P	P	P	P
8	SHILPA . SHIVARADDY . HACHARADDY	A	P	P	A	P	A	P
9	LAXMI . KANTANAGOUDA . PATIL	P	P	P	P	P	P	P
10	GOUTAMI . GURURAJ . KULAKARNI	P	P	P	P	P	A	P
11	JYOTHI . GOURISHANKAR . KAMBLE	P	P	P	P	P	P	P
12	SUSHMITA . REVANASIDDA . PATIL	P	P	A	P	P	P	P
13	RAJASHREE . RAGHAVENDRACHAR . JOSHI	P	P	P	P	P	P	P
14	BHAGAMMA . GADDEPPA . RODAGI	A	P	P	A	P	P	P
15	KAJOL . PRAKASH . KAMBALE	P	P	P	P	P	P	P
16	SHWETA . SHRESAIL . PATIL	P	A	P	P	A	P	A
17	NAVEEN . GURUNINGAPPA . BIRADAR	P	P	P	P	P	P	P
18	DEVENDRA . BHIMASHANKAR . KHOJANATTI	P	P	P	P	P	P	P
19	ASIF . MAQBOOL . SOUDAGAR	P	P	P	P	P	P	P
20	SARVAMANGALA . SHIVANAND . KOULAGI	A	P	A	P	P	P	A
21	SNEHA . BHIMANNA . BAGALKOT	P	P	P	P	P	P	P
22	ANUPAMA . ANAND . BARADOL	P	P	P	P	P	A	P
23	SANGAWA . YAMANAPPA . GANI	A	P	A	P	P	P	P
24	DANESHWARI . SHANKER . BAGALI	P	P	P	P	P	A	P
25	LAXMI . SHIVAPPA . GODEKAR	P	P	P	P	P	P	A
26	HANAMANTA . KULAPPA . SHIVOOOR	P	A	P	P	P	P	P
27	OMKAR . VIJAYAKUMAR . BHUSANUR	A	P	P	A	P	P	P
28	BASAVARAJA . SIDDAPPA . KATHARE	P	P	P	P	P	P	P
29	AMBARISH . SHRESAIL . BHAI RAMADI	P	P	P	A	P	A	P
30	MAHENDRA . YELLAPPA . HOSAMANI	P	P	P	P	P	P	P
31	ARPITA URF PALLAVI . ASHOK . PATIL	A	P	P	A	P	P	P
32	PRATIBHA . BASAVARAJ . STHAVARMATH	P	P	P	P	P	P	A

M.B. Mulgani
 HEAD

Department of Botany
 SB Arts & KCP Science College
 VIJAYAPUR-586103.

Geetha Kulakarni

Co-ordinator
 S.B.Arts & K.C.P.Science College,
 Vijayapur.

Geetha Kulakarni
 Principal,
 S.B. Arts and KCP Science College
 VIJAYAPUR

33	POOJA . JAYAKUMAR . WALIKAR	P	P	A	P	P	A	P
34	ASHWINI . ANIL . KULKARNI	A	P	P	P	A	P	P
35	RAJKUMAR . SHIVAJI . JADHAV	P	P	P	A	P	P	A
36	SHOBHA . SUBBANAGOUDA . PATIL	A	P	P	P	P	P	P
37	ROHINI . RAVUTAPPA . MASALI	P	A	P	P	P	P	P
38	RANJITA . HANAMANTH . SUDHAKAR	P	P	P	P	P	P	P
39	ASHWINI . SHRISHAIL . WALIKAR	P	P	P	P	A	P	P
40	ASHA . ARJUN . JIDDI	P	P	P	P	P	P	P
41	DHANAMMA . BHIMARAY . BIJARAGI	A	P	A	P	P	P	A
42	PRIYANK . SIDDAPPA . BADIGER	P	P	P	P	P	P	P
43	SACHITA . MALLAPPA . HONAKAMBLE	A	P	P	A	P	P	P
44	SWATI . SHASHIDHAR . MATH	P	P	P	P	P	P	P
45	MUSTAQ . SHABBIR . ATTAR	P	A	P	P	P	P	A
46	SHIVAJI . RAMESH . KARBARI	P	P	P	P	P	P	P
47	TRIVENI . APPASAHEB . .	A	P	P	A	A	P	P
48	REVATI . CHANNAPPA . DALAWAI	P	P	P	P	P	P	P
49	ESUBAI . SHAMARYA . DARAGOND	A	P	P	P	A	P	A
50	PRIYANKA . SIDDHAROOD . CHINCHOLI	P	P	P	P	P	P	P
51	SOURAB . .NARAYAN . HOSUR	A	P	A	P	A	P	A
52	GUNJANKUMARI . P . MOURYA	P	P	P	P	P	P	P
53	AKSHAY . SHRISHAIL . HIREMATH	A	P	P	P	P	P	P
54	MANINGAPPA . SHIVANINGAPPA . KARJOL	P	A	P	P	P	P	P
55	PRAVEENKUMAR . TIPPANNAPPA . DUDDAGI	P	P	A	A	P	P	P
56	SIDDALING . BHAIRAPPA . GIRANIWADDAR	A	P	P	P	P	P	P
57	PRIYADARSHINI . CHANDRAKANTH . PATTAR	P	P	P	P	P	P	P
58	GAYATRI . CHANDRASHEKHAR . BADIGER	P	P	P	P	P	P	P
59	LAXMI . RAJASHEKHAR . KAPASE	A	P	P	P	P	P	P
60	SHREEDEVI . SIDDAMALLAYYA . MATH	P	P	P	A	P	A	A
61	SALEEM . ALLASAB . JAMAKHANDI	P	P	P	P	P	P	P
62	PRIYANKA . SUBHASH . NAVADAGI	P	P	P	A	P	A	P
63	ANITA . JAGADEVAPPA . BIRADAR	P	P	P	P	A	P	P
64	RAGHVENDRA . SHARANABASAPPA . PALLAPUR	A	P	P	A	P	P	A
65	SANTOSH . ASHOK . DHADUTI	P	P	A	P	P	P	P
66	SHITAL . SANGANAGOUDA . PATIL	P	A	P	P	P	A	A
67	BONAKKA . SHANKAREPPA . SALOTAGI	A	P	P	A	P	P	P
68	PRATIBHA . GOLLALAPPA . BIRADAR	P	A	P	P	A	P	P


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DEPARTMENT OF BOTANY
ATTENDANCE LIST FOR TUTORIALS (2015-2016)

CLASS : BSC V SEMESTER

FACULTY NAME: Prof. L.L. Mulghan
Dr. Geetha Kulakarni

Sl.No.	Name of the Student	12/7/15	19/7/15	26/7/15	2/8/15	9/8/15	16/8/15	23/8/15
1	ASHWINI RAMGOND RAMPUR	P	P	P	A	A	P	A
2	VAISHALI MAHANTAGOUD PATIL	A	A	P	P	P	A	A
3	MANAND IRANNA NAVI	P	P	P	A	P	A	P
4	SANDEEP HARISHCHANDRA RATHOD	A	P	P	A	A	P	A
5	SANYOGITA SHREESHAIL HIREMAL	P	A	A	A	P	P	P
6	SHILPA MOTILAL SASABAL	A	P	P	P	P	P	A
7	KAVITA BASAVARAJ BIRADAR	P	A	P	P	P	A	P
8	PRAGATI HANAMANTRAY BALUNDAGI	P	P	P	A	P	P	A
9	KAVITA YAMANAPPA GORAGUNDAGI	P	P	A	P	P	P	P
10	SHRUTI PARAGOND BIRADAR	A	A	A	A	P	P	P
11	SAVITA BASAVARAJ JAVALI	P	P	P	A	P	P	P
12	SUSHMITA SIDRAMAPPA GADDANAKERI	A	P	P	P	P	P	A
13	POOJA SHANTAPPA SANKANAL	P	P	A	P	P	A	P
14	ASHWINI SHARANAGOUDA MULIMANI	P	P	P	P	A	P	P
15	ASHWINI MALLAPPA GASTI	A	P	P	P	P	P	A
16	AKSHATA ASHOK PATTAR	P	P	A	P	P	P	P
17	PAVITRA VEERATAPPA SATIHAL	P	P	P	A	A	P	P
18	SHRUTI PARASHURAM RATHOD	A	P	P	P	A	P	A
19	SOUMYA BASAVARAJ HIREMATH	P	A	P	P	P	A	P
20	SMITA SUBHASCHANDRA SANGOGI	A	P	P	P	P	P	P
21	SHREEDEVI MALLANNA RAKARADDI	P	A	P	P	P	A	A
22	CHARVI PANKAJKUMAR SHAH	A	P	P	P	P	P	P
23	GURURAJ VASUDEV TOLABANDI	P	A	A	A	P	A	A
24	NAGESH SURESH MYALESI	P	P	P	P	A	P	P
25	PRAVEEN MALLAPPA KEMPAWAD	P	A	A	P	A	A	A
26	SHAMASODDIN KHAJESAB SHEKH	A	P	P	A	P	P	A
27	SHRUTI SHANKAR KADAM	P	P	A	P	P	P	P
28	SHWETA NARAYAN PAWAR	P	P	A	P	A	P	A
29	MEGHA ANIL MAIDARGI	A	P	P	P	A	A	A
30	ANUPAMA DHANASING RATHOD	P	A	P	A	P	P	P
31	AKSHATA MOUNESHWAR PATTAR	A	P	A	P	P	P	A
32	RESHMA VASANT NAIK	A	P	P	P	P	P	A

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33	VIDYA RUKMANGAD KALE	P	P	A	P	P	A	P
34	GIRIJA SIDDAPPA HIPPARAGI	A	P	P	P	P	A	A
35	SOMALING BANDEPPA BEDAR	P	A	P	P	P	P	P
36	DANAMMA VIKAS MANGALWEDHE	P	A	P	P	A	P	P
37	KARISHMA FIROZ SHAIKH	P	P	P	A	P	P	A
38	LAXMI PARAPPA SAJJAN	P	A	P	P	P	A	P
39	VARSHA SURESH HADAGALI	P	P	P	A	P	P	A
40	SANJAY BABASAHEB KHOT	A	P	P	P	P	P	A
41	ANIL NINGAPPA GUNNAPUR	P	A	P	P	P	A	P
42	SAGAR TUKARAM VAMBASHE	A	P	P	A	P	P	P
43	MAHESHKUMAR P JAMBAGI	P	P	P	P	P	P	A
44	RAMESH PAVADEPPA HARIJAN	P	P	P	A	P	A	P
45	KIRAN DHARMENDRA JADHAV	A	A	P	P	A	A	P
46	MANJUNATH KUDALSANGAPPA HUGAR	P	P	A	P	A	P	A
47	DEVARAJ SHIVAPPA ICHHUR	P	P	A	P	P	P	A
48	VIJAYTA ASHOK BELLANKI	A	P	P	P	P	P	P
49	KASHINATH MADEV LAMANI	P	A	P	A	P	P	P
50	MANOJ RAMU RATHOD	P	A	P	A	P	P	P
51	KAVITA BASAVARAJ ALAGOND	P	P	A	P	P	A	P
52	JYOTI SIDDU BAGEWADI	A	A	P	A	A	P	A
53	MANJULA SADASHIVA DHASYAL	P	P	A	P	P	A	P
54	JEEVITHA K KUMARAVEL K A	A	A	P	P	A	P	A
55	RANI SHEKHUGOUD BIRADAR	A	P	P	P	A	P	P
56	MAHANTESH PARASAPPA SASANUR	P	A	P	P	P	A	A
57	SHRUTI BASAVARAJ PATIL	P	P	A	P	P	A	P
58	REKHA ANNAPPA CHOUGULE	P	P	A	P	P	A	P
59	SAVITA SHIVAYYA JANGAM	P	A	P	A	P	P	A
60	KRUTIKA SHRIKANT CHOUHAN	P	A	P	A	P	P	A
61	ANITA BASANGOUDA BIRADAR	A	P	P	A	P	P	A
62	ASHWINI MAHADEV CHANAGOND	A	P	A	P	A	A	P
63	YOGINEE SURYKANT TONSHAL	P	A	P	P	P	P	P
64	MAHESH SADASHIV CHORAGI	A	P	P	P	A	P	P
65	ASHWINI ARAVIND BIRADAR	P	P	P	A	P	P	A
66	SULOCHANA LAXMAN MADDEPPAGOL	P	P	P	A	P	P	A
67	PRIYANKA SANGAPPA CHANAGOND	P	P	P	A	P	P	P
68	SHIVANAND BASALINGAPPA MASALI	A	P	A	P	P	A	P
69	VIRESH KALLAPPA ALLAPUR	P	P	P	P	A	P	P
70	HANAMANT LAXMAN HALLI	P	A	P	P	A	P	A
71	VANISHRI RAMESH METRI	P	A	P	P	A	P	A
72	VINAY CHANDRASHEKHAR PATIL	A	P	P	A	P	A	P


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Organic Farming

1. Advantages of organic farming
2. Nutrient management in organic farming
3. Weed management in organic farming
4. Insect pest management
5. Diseases management in organic farming
6. Limitations and implications of Organic farming

Organic farming is a production system which avoids or largely excludes the use of synthetically compounded fertilizers, pesticides, growth regulators, genetically modified organisms and livestock food additives. To the maximum extent possible organic farming system rely upon crop rotations, use of crop residues, animal manures, legumes, green manures, off farm organic wastes, biofertilizers, mechanical cultivation, mineral bearing rocks and aspects of biological control to maintain soil productivity and till to supply plant nutrients and to control insect, weeds and other pests.

Organic methods can increase farm productivity, repair decades of environmental damage and knit small farm families into more sustainable distribution networks leading to improved food security if they organize themselves in production, certification and marketing. During last few years an increasing number of farmers have shown lack of interest in farming and the people who used to cultivate are migrating to other areas. Organic farming is one way to promote either self-sufficiency or food security. Use of massive inputs of chemical fertilizers and toxic pesticides poisons the land and water heavily. The after-effects of this are severe environmental consequences, including loss of topsoil, decrease in soil fertility, surface and ground water contamination and loss of genetic diversity.

Organic farming which is a holistic production management system that promotes and enhances agro-ecosystem health, including biodiversity, biological cycles, and soil biological activity is hence important. Many studies have shown that organic farming methods can produce even higher yields than conventional methods. Significant difference in soil health indicators such as nitrogen mineralization potential and microbial abundance and diversity, which were higher in the organic farms can also be seen. The increased soil health in organic farms also resulted in considerably lower insect and disease incidence. The emphasis on small-scale integrated farming systems has the potential to revitalize rural areas and their economies.

Advantages of organic farming

1. It helps to maintain environment health by reducing the level of pollution.
2. It reduces human and animal health hazards by reducing the level of residues in the product.
3. It helps in keeping agricultural production at a sustainable level.
4. It reduces the cost of agricultural production and also improves the soil health.
5. It ensures optimum utilization of natural resources for short-term benefit and helps in conserving them for future generation.
6. It not only saves energy for both animal and machine, but also reduces risk of crop failure.

Continued.

7. It improves the soil physical properties such as granulation, good tilt, good aeration, easy root penetration and improves water-holding capacity and reduces erosion.
8. It improves the soil's chemical properties such as supply and retention of soil nutrients, reduces nutrient loss into water bodies and environment and promotes favorable chemical reactions.

Nutrient management in organic farming

In organic farming, it is important to constantly work to build a healthy soil that is rich in organic matter and has all the nutrients that the plants need. Several methods viz. green manuring, addition of manures and biofertilizers etc can be used to build up soil fertility. These organic sources not only add different nutrients to the soil but also help to prevent weeds and increase soil organic matter to feed soil microorganisms. Soil with high organic matter resists soil erosion, holds water better and thus requires less irrigation. Some natural minerals that are needed by the plants to grow and to improve the soil's consistency can also be added. Soil amendments like lime are added to adjust the soil's pH balance. However soil amendment and water should contain minimum heavy metals. Most of the organic fertilizers used are recycled by-products from other industries that would otherwise go to waste. Farmers also make compost from animal manures and mushroom compost. Before compost can be applied to the fields, it is heated and aged for at least two months, reaching and maintaining an internal temperature of 130°-140°F to kill unwanted bacteria and weed seeds. A number of organic fertilizers / amendments and bacterial and fungal biofertilizers can be used in organic farming depending upon availability and their suitability to crop. Different available organic inputs are described below:

1. Organic manures

Commonly available and applied farm yard manure (FYM) and vermicompost etc. are generally low in nutrient content, so high application rates are needed to meet crop nutrient requirements. However, in many developing countries including India, the availability of organic manures is not sufficient for crop requirements; partly due to its extensive use of cattle dung in energy production. Green manuring with Sesbania, cowpea, green gram etc are quite effective to improve the organic matter content of soil. However, use of green manuring has declined in last few decades due to intensive cropping and socioeconomic reasons. Considering these constraints International Federation of Organic Agriculture Movement (IFOAM) and Codex Alimentarius have approved the use of some inorganic sources of plant nutrients like rock phosphate, basic slag, rock potash etc. in organic farming systems. These substances can supply essential nutrients and may be from plant, animal, microbial or mineral origin and may undergo physical, enzymatic or microbial processes and their use does not result in unacceptable effects on produce and the environment including soil organisms.

2. Bacterial and fungal biofertilizers

Contribution of biological fixation of nitrogen on surface of earth is the highest (67.3%) among all the sources of N fixation. Following bacterial and fungal biofertilizers can be used as a component of organic farming in different crops.

Continued.

- **Rhizobium** : The effectiveness of symbiotic N₂ fixing bacteria viz. Rhizobia for legume crops eg. *Rhizobium*, *Bradyrhizobium*, *Sinorhizobium*, *Azorhizobium*, and *Mesorhizobium* etc have been well recognized. These bacteria infecting legumes have a global distribution. These rhizobia have a N₂-fixing capability up to 450 kg N ha⁻¹ depending on host- plant species and bacterial strains. Carrier based inoculants can be coated on seeds for the introduction of bacterial strains into soil.
- **Azotobacter**: N₂ fixing free-living bacteria can fix atmospheric nitrogen in cereal crops without any symbiosis. Such free living bacterias are: *Azotobacter* sp. for different cereal crops; *Acetobacter diazotrophicus* and *Herbaspirillum* spp. for sugarcane, sorghum and maize crop. Beside fixing nitrogen, they also increase germination and vigour in young plants leading to an improved crop stand. They can fix 15-20 kg/ha nitrogen per year. *Azotobacter* sp. also has ability to produce anti fungal compounds against many plant pathogens. *Azotobacter* can biologically control the nematode diseases of plants also.
- **Azospirillum**: The genus *Azospirillum* colonizes in a variety of annual and perennial plants. Studies indicate that *Azospirillum* can increase the growth of crops like sunflower, carrot, oak, sugarbeet, tomato, pepper, cotton, wheat and rice. The crop yield can increase from 5-30%. Inoculum of *Azotobacter* and *Azospirillum* can be produced and applied as in peat formulation through seed coating. The peat formulation can also be directly utilized in field applications.
- **Plant growth promoting rhizobacteria** : Various bacteria that promote plant growth are collectively called plant growth promoting rhizobacteria (PGPR). PGPR are thought to improve plant growth by colonizing the root system and pre-empting the establishment of suppressing deleterious rhizosphere microorganisms on the roots. Large populations of bacteria established in planting material and roots become a partial sink for nutrients in the rhizosphere thus reducing the amount of C and N available to stimulate spores of fungal pathogens or for subsequent colonization of the root. PGPR belong to several genera viz. *Actinoplanes*, *Azotobacter*, *Bacillus*, *Pseudomonas*, *Rhizobium*, *Bradyrhizobium*, *Streptomyces*, *Xanthomonas* etc. *Bacillus* spp. act as biocontrol agent because their endospores are tolerant to heat and desiccation. Seed treatment with *B. subtilis* is reported to increase yield of carrot by 48%, oats by 33% and groundnut upto 37%.
- **Phosphorus-solubilizing bacteria (PSB)**: Phosphorus is the vital nutrient next to nitrogen for plants and microorganisms. This element is necessary for the nodulation by *Rhizobium* and even to nitrogen fixers, *Azolla* and BGA. The phospho microorganism mainly bacteria and fungi make available insoluble phosphorus to the plants. It can increase crop yield up to 200-500 kg/ha and thus 30 to 50 kg Super Phosphate can be saved. Most predominant phosphorus-solubilizing bacteria (PSB) belong to the genera *Bacillus* and *Pseudomonas*. At present PSB is most widely used biofertilizer in India. PSB can reduce the P requirement of crop up to 25%.
- **Mycorrhizal fungi**: Root-colonizing mycorrhizal fungi increase tolerance of heavy metal contamination and drought. Mycorrhizal fungi improve soil quality also by having a direct influence on soil aggregation and therefore aeration and water dynamics. An interesting potential of this fungi is its ability to allow plant access

Continued.

determined by the National Organic Standards.

Diseases management in organic farming

Plant diseases are major constraints for reductions in crop yield and quality in organic and low input production systems. Proper fertility management to crops through balanced supply of macro and micronutrients and adoption of crop rotation have shown to improve the resistance of crops to certain diseases. Thus one of the biggest rewards of organic farming is healthy soil that is alive with beneficial organisms. These healthy microbes, fungi and bacteria keep the harmful bacteria and fungi that cause disease in check.

Limitations and implications of Organic farming

There are a few limitations with organic farming such as

1. Organic manure is not abundantly available and on plant nutrient basis it may be more expensive than chemical fertilizers if organic inputs are purchased.
2. Production in organic farming declines especially during first few years, so the farmer should be given premium prices for organic produce.
3. The guidelines for organic production, processing, transportation and certification etc are beyond the understanding of ordinary Indian farmer.
4. Marketing of organic produce is also not properly streamlined. There are a number of farms in India which have either never been chemically managed / cultivated or have converted back to organic farming because of farmers' beliefs or purely for reason of economics. These thousands of farmers cultivating million acres of land are not classified as organic though they are. Their produce either sells in the open market along with conventionally grown produce at the same price or sells purely on goodwill and trust as organic through select outlets and regular specialized markets. These farmers may never opt for certification because of the costs involved as well as the extensive documentation that is required by certifiers.

In dry lands, covering over 65% cultivated area in India, application of chemical fertilizers and pesticides is always low. So these areas are at least "relatively organic" or "organic by default" and a portion of these lands can be converted easily to an organic one to provide better yields/returns. India can greatly benefit from the export of organic foods, but needs to seriously devote attention to market intelligence regarding which product to grow, where to sell, distribution channels, competition, marketing access etc. Presently, good awareness exists among farmers, researchers and policy makers about organic production but a lot more need to be done to streamline production, certification and marketing of organic produce. Uttaranchal and some other state governments have already

Continued.

declared their states as "Organic" state and created special Export Zones like Basmati Export Zone. A large area of North eastern states and other states may be developed as commodity based "organic" production areas. With greater political will and investment in research, extension and marketing infrastructure more of this potential could be realized. Therefore to feed the world's hungry and poor and to ensure present and future food security right policies, increased public and private investments and technologies, knowledge and capacity building, grounded in sound ecosystem management and harmony between organic farming and food security goals are required.



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REPORT

Prof.L.L.Malghan, Dr.M.B.Mulimani ,Dr Geeetha kulkarni faculty of Botany department conducted the tutorials for the BSc I, III and V semester students in the academic year 2015-16. The student attended the classes as per the prior set timetable .

These tutorials posed to enhance the additional knowledge to the existing curricular study the students became more study oriented. The students here studied about maintenance of botanical garden and organic farming.



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Department of BOTANY

NOTICE

Date :22/01/2016

It is hereby informed that the Tutorial classes will be held to the BSc II,IV and VI semester students from 24/01/2016. The timetable will be displayed on the notice board . All the students must attend the classes .


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TIME-TABLE FOR TUTORIALS

2015-2016

TIME	SUNDAY		
11:30- 12:30 PM	BSc II semester	BSc IV semester	BSc VI semester
1:00-2:00 PM	BSc II semester	BSc IV semester	BSc VI semester


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CLASS : BSC II SEMESTER

FACULTY NAME : prof L. L. Malghan
Dr. M. B. Mallmani.

Sl.No.	Name of the Student	24/1/16	7/2/16	22/2/16	28/2/16	6/3/16	13/3/16	20/3/16
1	Rajkumar Shivanna Bhairashetti	P	P	P	P	P	P	A
2	Mahesh Gangaram pawar	P	A	P	P	A	A	P
3	Sheetalkumar Padmanabha Gongadi	P	A	P	A	P	A	A
4	Vishal Vittal Biradar	P	A	P	A	P	A	P
5	Lalasaheb Davalaso Nadaf	P	A	A	A	P	A	P
6	Vilas Abhimanya Kamble	P	A	P	A	A	A	P
7	Rohini Murughendra vastrad	P	A	P	A	P	P	P
8	Mohammadjuber Shahajahan Dhundasi	P	P	P	A	P	A	P
9	Awashankh Janakaraj Irranna Awashankh	P	P	A	P	A	A	P
10	Poornima Sahebgouda Gouri	P	P	A	P	A	P	A
11	Hanamant Ashok Dhumale	P	A	P	A	P	A	P
12	Sandya Motilal Rathod	P	P	P	A	A	P	A
13	Kavya Motilal Rathod	P	P	P	A	A	P	A
14	Mushtaq Abdul Saleem	P	A	P	A	P	A	A
15	Priya Vijayakumar Kaladagi	A	P	A	A	P	A	P
16	Sunilkumar Amasidda Tambe	A	A	P	A	P	A	A
17	Chanabasayya Shambhulingayya Hiremath	A	P	A	P	A	A	P
18	Basayya Mallikarjun Hiremath	A	P	P	A	A	A	A
19	Mahesh Dhareppa Umadi	P	A	P	P	P	A	P
20	Bibizahera Gousemohadin Bevanur	P	A	P	A	P	P	A
21	Vijayalaxmi Gopal Kumbar	P	A	P	A	P	A	P
22	Bhuvaneshwari Ramesh kotin	P	P	A	P	A	P	A
23	Savitri Suresh Mudalagi	P	A	P	P	A	P	P
24	Shruti Basavaraj Masali	P	P	P	P	A	A	P
25	Tanuja Danesh Vagoli	P	P	P	A	A	P	A
26	Laxmi Sadashiv Junjarawad	P	P	A	P	A	P	A
27	Deepa Mukund Kamble	P	P	A	A	P	A	P
28	Sneha Arjun Pangdwale	P	A	P	A	P	A	P
29	Prabhakar Shivanand Bhandarakavte	P	P	P	A	P	A	
30	Siddharam Chandrashekhar Kottalagi	P	A	P	A	P	A	P


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31	Rahul Gangadhar Kolli	P	A	P	A	P	P	A
32	Rohan Dundappa Bellundagi	P	A	P	P	A	P	P
33	Laxmi Appasaheb Modi	P	P	P	P	P	A	P
34	Bheemanagouda Gurulingappagouda Patil	P	P	P	A	P	A	P
35	Roopa Madiwalappa Awati	A	P	A	P	A	P	P
36	Dhareppa Nagappa Manami	A	P	P	P	P	A	P
37	Manjunath Arjun Jarale	A	P	A	P	A	P	A
38	Harsha Dattatreya Belagali	P	P	A	P	A	P	P
39	Ravi Arjun Gaded	P	P	P	A	P	A	A
40	Ramya Ramachandra Badiger	P	A	P	P	A	P	P
41	Priyanka Rajendra Ratnakar	P	P	P	A	P	P	A
42	Megha Ashok Kanavi	P	P	A	P	P	A	P
43	Santosh Savayi Chavan	P	P	A	P	P	A	P
44	Vijeeta Laxman Thoravi	P	A	P		P	A	P
45	Laxmeekant Doddappa Hunachyal	A	P	P	P	A	A	P
46	Sandhya Shankar Naik	P	A	P	A	P	A	A
47	Rahul VijayKumar Rathod	P	A	P	A	A	A	P
48	Pooja Krisnamurti Khamitkar	P	A	A	P	P	A	P
49	Sushmita A T Amresh B T	P	A	P	A	P	A	P
50	Iramma Siddanagouda Hiregoudra	A	P	A	P	A	P	A


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DEPARTMENT OF BOTANY

ATTENDANCE LIST FOR TUTORIALS (2015-2016)

CLASS : BSC IV SEMESTER

FACULTY NAME: *Dr. M. B. Mulkani*
Dr. Geetha Kulkarni

Sl.No.	Name of the Student	24/1/16	7/2/16	2/2/16	28/2/16	6/3/16	13/3/16	20/3/16
1	SAHANA . SANJEEV . PUROHIT	P	P	A	P	A	P	P
2	SHREYA . UDAY . PATIL	P	P	A	P	A	P	A
3	REVATI . BHUPAL . KANDIBAL	P	A	P	A	P	A	P
4	ASHWINI . S.HARIWAL . HARIWAL	P	A	P	A	P	A	P
5	ANAND . BHIMARAYA . HALLI	P	A	A	P	A	A	P
6	RICHA . RAMCHANDRA . PAWAR	A	P	A	P	A	P	A
7	SMEETA . RAYAGOND . BIRADAR	P	A	A	P	A	A	P
8	SHILPA . SHIVARADDY . HACHARADDY	A	P	A	P	A	P	P
9	LAXMI . KANTANAGOUDA . PATIL	P	A	P	A	P	A	P
10	GOUTAMI . GURURAJ . KULAKARNI	P	A	P	A	A	P	A
11	JYOTHI . GOURISHANKAR . KAMBLE	A	P	A	P	A	A	P
12	SUSHMITA . REVANASIDDA . PATIL	P	A	P	A	P	A	P
13	RAJASHREE . RAGHAVENDRACHAR . JOSHI	P	A	P	A	P	A	P
14	BHAGAMMA . GADDEPPA . RODAGI	P	A	P	A	P	A	P
15	KAJOL . PRAKASH . KAMBALE	P	A	P	A	P	A	A
16	SHWETA . SHRESAIL . PATIL	P	A	P	P	A	A	P
17	NAVEEN . GURUNINGAPPA . BIRADAR	A	P	A	P	A	P	P
18	DEVENDRA . BHIMASHANKAR . KHOJANATTI	P	P	A	A	P	A	P
19	ASIF . MAQBOOL . SOUDAGAR	A	P	A	P	A	P	P
20	SARVAMANGALA . SHIVANAND . KOULAGI	P	A	P	A	P	A	P
21	SNEHA . BHIMANNA . BAGALKOT	A	P	A	P	P	P	A
22	ANUPAMA . ANAND . BARADOL	A	A	P	P	P	A	P
23	SANGAWA . YAMANAPPA . GANI	P	A	P	A	P	A	P
24	DANESHWARI . SHANKER . BAGALI	A	P	P	A	P	P	A
25	LAXMI . SHIVAPPA . GODEKAR	P	P	P	P	P	P	P
26	HANAMANTA . KULAPPA . SHIVOOOR	A	P	A	P	P	A	P
27	OMKAR . VIJAYAKUMAR . BHUSANUR	P	A	P	A	P	P	P
28	BASAVARAJA . SIDDAPPA . KATHARE	A	P	A	P	P	P	P
29	AMBARISH . SHRESAIL . BHAIRAMADI	P	P	A	P	P	A	P
30	MAHENDRA . YELLAPPA . HOSAMANI	A		P		P	A	P
31	ARPITA URF PALLAVI . ASHOK . PATIL	A	P	A	P	P		P
32	PRATIBHA . BASAVARAJ . STHAVARMATH	A	P	A	P	P	P	A

M. B. Mulkani
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33	POOJA . JAYAKUMAR . WALIKAR	P	P	P	P	P	P	P
34	ASHWINI . ANIL . KULKARNI	A	P	A	P	P	P	A
35	RAJKUMAR . SHIVAJI . JADHAV	P	A	P	A	P	A	P
36	SHOBHA . SUBBANAGOUDA . PATIL	A	P	A	P	A	P	A
37	ROHINI . RAVUTAPPA . MASALI	P	A	P	A	P	A	P
38	RANJITA . HANAMANTH . SUDHAKAR	P	A	P	A	P	P	P
39	ASHWINI . SHRISHAIL . WALIKAR	A	P	A	P	A	P	P
40	ASHA . ARJUN . JIDDI	P	P	A	P	P	A	P
41	DHANAMMA . BHIMARAY . BIJJARAGI	P	A	P	A	P	A	P
42	PRIYANK . SIDDAPPA . BADIGER	P	A	P	A	P	A	P
43	SACHITA . MALLAPPA . HONAKAMBLE	P	A	P	A	P	A	P
44	SWATI . SHASHIDHAR . MATH	A	P	P	P	A	A	P
45	MUSTAQ . SHABBIR . ATTAR	P	P	A	P	A	P	P
46	SHIVAJI . RAMESH . KARBARI	P	A	P	A	P	A	P
47	TRIVENI . APPASAHEB . .	P	P	A	P	A	P	A
48	REVATI . CHANNAPPA . DALAWAI	A	P	A	P	A	P	A
49	ESUBAI . SHAMARYA . DARAGOND	P	A	P	A	P	A	P
50	PRIYANKA . SIDDHAROOD . CHINCHOLI	P	A	P	A	P	A	P
51	SOURAB . NARAYAN . HOSUR	A	P	A	P	A	P	P
52	GUNJANKUMARI . P . MOURYA	P	P	P	A	P	A	P
53	AKSHAY . SHRISHAIL . HIREMATH	A	P	A	P	A	P	A
54	MANINGAPPA . SHIVANINGAPPA . KARJOL	P	A	P	A	P	A	P
55	PRAVEENKUMAR . TIPPANNAPPA . DUDDAGI	A	P	P	P	P	P	A
56	SIDDALING . BHAIRAPPA . GIRANIWADDAR	P	P	P	A	P	A	P
57	PRIYADARSHINI . CHANDRAKANTH . PATTAR	P	P	P	P	P	P	A
58	GAYATRI . CHANDRASHEKHAR . BADIGER	A	P	P	P	P	P	A
59	LAXMI . RAJASHEKHAR . KAPASE	P	A	P	P	A	P	A
60	SHREEDEVI . SIDDAMALLAYYA . MATH	P	A	P	A	P	A	P
61	SALEEM . ALLASAB . JAMAKHANDI	P	A	P	A	P	A	P
62	PRIYANKA . SUBHASH . NAVADAGI	P	A	P	A	P	A	P
63	ANITA . JAGADEVAPPA . BIRADAR	A	P	A	P	P	A	P
64	RAGHVENDRA . SHARANABASAPPA . PALLAPUR	A	P	A	P	A	P	P
65	SANTOSH . ASHOK . DHADUTI	P	P	P	P	P	P	P
66	SHITAL . SANGANAGOUDA . PATIL	P	P	P	A	P	A	P
67	BONAKKA . SHANKAREPPA . SALOTAGI	P	A	P	A	P	A	P
68	PRATIBHA . GOLLALAPPA . BIRADAR	A	P	A	P	A	P	P


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CLASS : BSC VI SEMESTER

FACULTY NAME : Prof. L.L. Malghan
Dr. Geetha Kulakurni

Sl.No.	Name of the Student	29/1/16	7/2/16	21/2/16	28/2/16	6/3/16	13/3/16	20/3/16
1	ASHWINI RAMGOND RAMPUR	P	P	P	P	A	P	P
2	VAISHALI MAHANTAGUOD PATIL	P	A	P	P	A	P	A
3	MANAND IRANNA NAVI	A	P	A	P	A	P	A
4	SANDEEP HARISHCHANDRA RATHOD	P	A	P	P	P	A	P
5	SANYOGITA SHREESHAIL HIREMAL	P	A	P	P	A	P	A
6	SHILPA MOTILAL SASABAL	A	P	A	P	A	P	A
7	KAVITA BASAVARAJ BIRADAR	P	A	P	A	P	A	P
8	PRAGATI HANAMANTRAY BALUNDAGI	A	P	A	P	A	P	A
9	KAVITA YAMANAPPA GORAGUNDAGI	A	P	A	P	A	P	A
10	SHRUTI PARAGOND BIRADAR	A	A	P	A	P	A	P
11	SAVITA BASAVARAJ JAVALI	P	A	P	A	P	A	P
12	SUSHMITA SIDRAMAPPA GADDANAKERI	A	P	A	P	A	P	A
13	POOJA SHANTAPPA SANKANAL	A	P	A	P	A	A	P
14	ASHWINI SHARANAGOUUDA MULIMANI	P	A	P	A	P	A	P
15	ASHWINI MALLAPPA GASTI	A	P	P	P		P	A
16	AKSHATA ASHOK PATTAR	A	A	P	A	P	A	P
17	PAVITRA VEERATAPPA SATIHAL	P	A	P	P	P	A	P
18	SHRUTI PARASHURAM RATHOD	A	P	P	A	P	P	P
19	SOUMYA BASAVARAJ HIREMATH	A	P	P	P	P	A	P
20	SMITA SUBHASCHANDRA SANGOGI	P	A	P	A	P	A	P
21	SHREEDEVI MALLANNA RAKARADDI	A	P	A	P	A	P	P
22	CHARVI PANKAJKUMAR SHAH	P	A	P	A	P	A	P
23	GURURAJ VASUDEV TOLABANDI	A	P	P	P	A	P	A
24	NAGESH SURESH MYALESI	P	A	A	P	A	P	P
25	PRAVEEN MALLAPPA KEMPAWAD		P	A	P	A	P	A
26	SHAMASODDIN KHAJESAB SHEKH	P	A	A	P	A	A	P
27	SHRUTI SHANKAR KADAM	A	P	A	A	P	A	P
28	SHWETA NARAYAN PAWAR	P	A	P	P	P	A	A
29	MEGHA ANIL MAIDARGI	P	P	P	P	A	P	A
30	ANUPAMA DHANASING RATHOD	P	A	P	P	P	A	A
31	AKSHATA MOUNESHWAR PATTAR	P	A	A	A	A	A	A
32	RESHMA VASANT NAIK	P	A	A	P	P	A	P

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33	VIDYA RUKMANGAD KALE	P	P	P	P	P	P	P
34	GIRIJA SIDDAPPA HIPPARAGI	P	P	P	P	P	P	P
35	SOMALING BANDEPPA BEDAR	P	P	P	P	P	P	P
36	DANAMMA VIKAS MANGALWEDHE	P	P	P	P	P	P	P
37	KARISHMA FIROZ SHAIKH	P	P	P	P	P	P	P
38	LAXMI PARAPPA SAJJAN	P	P	P	P	P	P	P
39	VARSHA SURESH HADAGALI	P	P	P	P	P	P	P
40	SANJAY BABASAHEB KHOT	P	P	P	P	P	P	P
41	ANIL NINGAPPA GUNNAPUR	P	P	P	P	P	P	P
42	SAGAR TUKARAM VAMBASHE	P	P	P	P	P	P	P
43	MAHESHKUMAR P JAMBAGI	P	P	P	P	P	P	P
44	RAMESH PAVADEPPA HARIJAN	P	P	P	P	P	P	P
45	KIRAN DHARMENDRA JADHAV	P	P	P	P	P	P	P
46	MANJUNATH KUDALSANGAPPA HUGAR	P	P	P	P	P	P	P
47	DEVARAJ SHIVAPPA ICHHUR	P	P	P	P	P	P	P
48	VIJAYTA ASHOK BELLANKI	P	P	P	P	P	P	P
49	KASHINATH MADEV LAMANI	P	P	P	P	P	P	P
50	MANOJ RAMU RATHOD	P	P	P	P	P	P	P
51	KAVITA BASAVARAJ ALAGOND	P	P	P	P	P	P	P
52	JYOTI SIDDU BAGEWADI	P	P	P	P	P	P	P
53	MANJULA SADASHIVA DHASYAL	P	P	P	P	P	P	P
54	JEEVITHA K KUMARAVEL K A	P	P	P	P	P	P	P
55	RANI SHEKHUGOUD BIRADAR	P	P	P	P	P	P	P
56	MAHANTESH PARASAPPA SASANUR	P	P	P	P	P	P	P
57	SHRUTI BASAVARAJ PATIL	P	P	P	P	P	P	P
58	REKHA ANNAPPA CHOUGULE	P	P	P	P	P	P	P
59	SAVITA SHIVAYYA JANGAM	P	P	P	P	P	P	P
60	KRUTIKA SHRIKANT CHOUHAN	P	P	P	P	P	P	P
61	ANITA BASANGOUDA BIRADAR	P	P	P	P	P	P	P
62	ASHWINI MAHADEV CHANAGOND	P	P	P	P	P	P	P
63	YOGINEE SURYKANT TONSHAL	P	P	P	P	P	P	P
64	MAHESH SADASHIV CHORAGI	P	P	P	P	P	P	P
65	ASHWINI ARAVIND BIRADAR	P	P	P	P	P	P	P
66	SULOCHANA LAXMAN MADDEPPAGOL	P	P	P	P	P	P	P
67	PRIYANKA SANGAPPA CHANAGOND	P	P	P	P	P	P	P
68	SHIVANAND BASALINGAPPA MASALI	P	P	P	P	P	P	P
69	VIRESH KALLAPPA ALLAPUR	P	P	P	P	P	P	P
70	HANAMANT LAXMAN HALLI	P	P	P	P	P	P	P
71	VANISHRI RAMESH METRI	P	P	P	P	P	P	P
72	VINAY CHANDRASHEKHAR PATIL	P	P	P	P	P	P	P


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Botanical garden

A botanical garden or botanic garden is a garden dedicated to the collection, cultivation, preservation and display of a wide range of plants labelled with their botanical names. It may contain specialist plant collections such as cacti and other succulent plants, herb gardens, plants from particular parts of the world, and so on; there may be greenhouses, shadehouses, again with special collections such as tropical plants, alpine plants, or other exotic plants. Visitor services at a botanical garden might include tours, educational displays, art exhibitions, book rooms, open-air theatrical and musical performances, and other entertainment.

Botanical gardens are often run by universities or other scientific research organizations, and often have associated herbaria and research programmes in plant taxonomy or some other aspect of botanical science. In principle, their role is to maintain documented collections of living plants for the purposes of scientific research, conservation, display, and education, although this will depend on the resources available and the special interests pursued at each particular garden.

The origin of modern botanical gardens is generally traced to the appointment of professors of botany to the medical faculties of universities in 16th century Renaissance Italy, which also entailed the curation of a medicinal garden. However, the objectives, content, and audience of today's botanic gardens more closely resembles that of the grandiose gardens of antiquity and the educational garden of Theophrastus in the Lyceum of ancient Athens.^[1]

The early concern with medicinal plants changed in the 17th century to an interest in the new plant imports from explorations outside Europe as botany gradually established its independence from medicine. In the 18th century, systems of nomenclature and classification were devised by botanists working in the herbaria and universities associated with the gardens, these systems often being displayed in the gardens as educational "order beds". With the rapid expansion of European colonies around the globe in the late 18th century, botanic gardens were established in the tropics, and economic botany became a focus with the hub at the Royal Botanic Gardens, Kew, near London.

Over the years, botanical gardens, as cultural and scientific organisations, have responded to the interests of botany and horticulture. Nowadays, most botanical gardens display a mix of the themes mentioned and more; having a strong connection with the general public, there is the opportunity to provide visitors with information relating to the environmental issues being faced at the start of the 21st century, especially those relating to plant conservation and sustainability.

According to the definition of Botanic Gardens Conservation International (BGCI) in the International Agenda for Botanic Gardens in Conservation (IABGC) (2000), "botanic gardens are institutions holding documented collections of living plants for the purposes of scientific research, conservation, display and education."

A botanical garden must be a public institution committed to long-term maintenance of its collections.

A private garden, even if it is open to the public, is not generally considered a botanical garden, as this commitment is not certain and the garden's vocation may change radically if the owner changes.

Even if it is public, it is in a garden's best interest to have a clear mission and specific development plan to guide its administrators, whoever they may be.

Botanical gardens should always have complete documentation of their collections, control over plants collected and demonstrate responsible management of their collections.

Well documented collections allow botanical gardens to support botanists and other scientists by providing documentation and resources for research.

Botanical gardens have three main objectives:

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- The first and best known objective is recreation. Exhibitions, plant sales, picnics under the trees and relaxing in a natural environment are some of the possibilities that botanical gardens offer both residents and tourists.
 - The second very important objective of botanical gardens is education. This includes summer camps for kids, school group tours, interpretation, classes and seminars as well as publications and other ways of sharing information between botanical gardens and horticulture and botany professionals.
 - Finally, gardens have a scientific objective. Gardens have always studied botany, taxonomy and systematics. Today, fields of study are even broader, from molecular research in the lab to ecological field work. Conservation and studies of local plants should also be emphasized.
- Certain institutions are called botanical gardens for historical reasons and their objectives are mainly recreational, but there are also many gardens that are currently reviewing their mission and becoming gardens that are active in education, research and conservation.

We use the term "botanical garden" inclusively to mean arboretums and any other garden that specializes in growing a specific type of plant.

Why work with conservation in botanical gardens?

- Long before the term "biodiversity" was used, botanical gardens carried out activities that are now associated with biodiversity.

They took part in describing new species and studies about them to discover potential uses in industry, horticulture or for research.

Gardens also conserved species of rare wild plants (or ex situ conservation, meaning outside of the species' natural habitat).

Gardens' plant collections are certainly reference collections of choice because of their diversity (more than 80,000 species are represented in collections of botanical gardens all over the world – nearly a third of all known plant species) and because of their related documentation.

Over time, they have become indispensable databases for taxonomy and studying biodiversity. In fact, the first biodiversity database was published by a botanical garden.

The **Index Kewensis**, a list of vascular plants first published in 1890, is based on the herbarium of the Royal Botanical Gardens in Kew, UK. The Index has become a directory of all named plants and is available online as the **International Plant Names Index (IPNI)**.

- Documentation in botanical gardens includes more than information about species diversity. It also contains information about the environment, ecological systems and their sustainability. All of this knowledge contributes to botanical and horticultural research and helps to put biodiversity conventions in place.

It is important to remember that in some countries, botanical gardens are the first, and sometimes the only institutions involved in researching, collecting, managing and conserving rare plant species in their region as well as species of interest for food, agriculture or other economic applicability.

Botanical gardens were among the first institutions to study biodiversity. Through the sum of knowledge and expertise that they have accumulated, they are leaders in research on both wild and cultivated plants and conservation. Many new gardens have opened with the objective to be centres for education, conservation and plant research, especially species indigenous to their region.

How can a botanical garden work to conserve biodiversity?

One of the most important roles that botanical gardens play in conservation is environmental education. Each year, more than 150 million people visit gardens all over the world and have the chance to get in touch with nature. Botanical gardens are a unique environment to raise public awareness and help people understand the importance of biodiversity, educate people about the

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threats it currently faces and make them realize that nature conservation is everyone's job. This is why it is so important for gardens to maintain interpretation programs, host school groups and present exhibitions.

The second obvious role of botanical gardens in biodiversity conservation is *ex situ* conservation. *Ex situ* conservation (growing wild plants outside their natural environment) has many advantages, but should not be seen as an objective in and of itself. It is one element of a comprehensive strategy to conserve species in their environment. *Ex situ* conservation helps to attain this objective by providing material to reintroduce plants into degraded areas or to reinforce existing populations. It also helps to remove wild populations from the pressure of scientists, horticulturists or collectors. The presence of a rare species in a botanical garden makes it available for scientific research, education and possible horticultural or commercial exploitation without affecting wild populations. *Ex situ* conservation can also serve as an "insurance policy" for endangered species by creating a protected reserve of especially vulnerable native species or populations. It can even be the only solution if the natural habitat has been destroyed or if a species disappears. Botanical gardens are ideal places to practice *ex situ* conservation because they have appropriate facilities and skilled horticulturists and botanists. *Ex situ* conservation includes not only the cultivation of plants in gardens and greenhouses, but also maintenance of seed, pollen or propagule samples and in vitro cell and tissue cultures.

One of a botanical garden's primary conservation objectives can be working to conserve local flora, from scientific research to collaboration with towns, cities and local organizations to conserve or restore habitats. The collaboration of gardens with other organizations plays an important role in the implementation of natural or regional conservation plants. Gardens can provide the expert advice, practical assistance, databases and information needed to manage plants with a view to their conservation and sustainable use.

To meet these objectives, a thorough knowledge of biodiversity is necessary. Since they were founded, botanical gardens have been involved in the **documentation** of wild and garden plants all over the world. More and more, this role has expanded into **research** in order to find out more about the ecosystems that plant species live in as well as the plants themselves. Botanical gardens are an ideal environment for research because their collections and libraries already have resource documents, and equipment such as laboratories, greenhouses, growing rooms, herbariums and data management systems is already available on site.


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REPORT

Prof.L.L.Malghan, Dr.M.B.Mulimani ,Dr Geetha kulakarni . faculty of Botany department conducted the tutorials for the BSc II ,IV and VI semester students in the academic year 2015-16 The student attended the classes as per the prior set timetable.

These tutorials posed to enhance the additional knowledge to the existing curricular study the students became more study oriented. The students here studied about the chemical constituents and oil extraction from plants.


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