

(Hindi Vidya Prachar Samiti's RAMNIRANJAN JHUNJHUNWALA COLLEGE of Arts, Science & Commerce)

College is recognized under Section 2(f) & 12(B) of the UGC Act, 1956

Affiliated to UNIVERSITY OF MUMBAI II NAAC Re-Accredited 'A' Grade (CGPA: 3.50)

13/06/2019

ADMISSION NOTICE FOR POST GRADUATE DIPLOMA PROGRAMS 2019-2020 DEGREE COLLEGE

The admissions of Post Graduate Diploma programs in-

- 1. Dietetics and Applied Nutrition
- 2. Regulatory Affairs
- 3. Clinical Studies Data Management and Medical Writing
- 4. Horticulture and Landscape Designing

will commence from 1st July 2019. Students must fill the form. The eligibility criteria and fee structure is available on the college website. Admission will be on fulfilment of criteria. Students must pay the fees.

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PRINCIPAL
RAMNIRANJAN JHUNJHUNWALA COLLEGE
OF ARTS, SCIENCE & COMMERCE (AUTONOMOUS)
Shatkopar (W), Mumbal-400 086, Maharashtra, INDIA

Principal

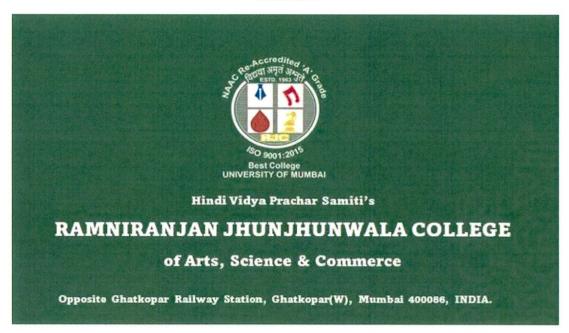


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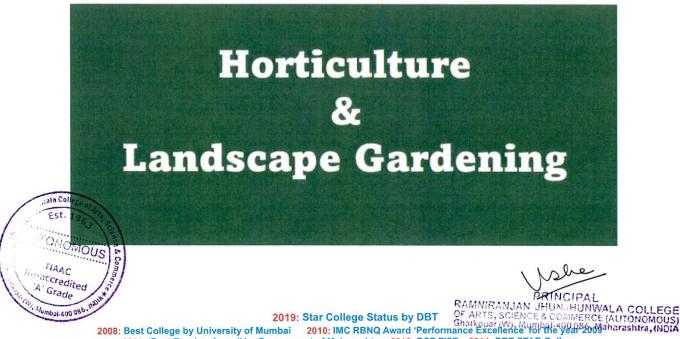
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BROCHURE



Postgraduate Diploma



2011: 'Best Teacher Award' by Government of Maharashtra 2013: DST-FIST 2014: DBT STAR College 2013 & 2014: 'Jagar Jaanivancha Award' by Govt, of Maharashtra 2016: ISO 14001:2015 2016: ISO 9001:2015 2017: ISO 27001:2013 2018: Autonomous Status by University Grants Commission (No. F. 22-1/2018(AC) - 28.05.2018) & by University of Mumbai (No.Aff./ICD/18-19/440 - 08.06.2018)



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O 5894 Title : Post Graduate Diploma in Horticulture and

Landscape gardening

O 5895 Eligibility : Bachelor Degree

R 8196 Duration of the Course : One Year (Full Time/)

R <u>8197</u> Fee Structure : Rs. 10,000/-

R 8198 Intake Capacity : 40 Students

R 8199 Teacher Qualifications : M Sc Botany, B Sc Agriculture, Horticulture

R 8200 Standard of Passing :

a. Candidate who secures minimum 50% marks in each paper be declared to have passed the examination in that subject.

b. A candidate who fails to secure 50% marks in a paper will be allowed to reappear in that paper.

c. Candidate can carry forward at his/her option the marks in the paper in which he/she has passed, in such a case student is entitled for award of class.

d. Candidate who secures a minimum of 50% marks in each paper and an aggregate of 60% and above marks on the whole shall be declared to have passed the examination in the First Class.

e. Candidate who secures a minimum of 50% marks in each paper and an aggregate of 70% and above marks on the whole shall be declared to have passed the examination in First Class with Distinction.

Medium of Instruction : English

Field Visit : Various Gardens and Plant Nurseries

AUTONOMOUS Commerce Re-accredited A' Grade A' Grade Rose (W.) Mumbal-400 08 B

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Syllabus for Post Graduate Diploma

in

Horticulture and Landscape Gardening

Scheme of Examination

Theory

PAPER	TITLE OF PAPER	MAXIMUM MARKS	MINIMUM MARKS	Credits	PAPER CODE
I	Gardening	150	75	12 Credits	PGDHLT001
II	Landscape Gardening	150	75	12 Credits	PGDHLT002

Practicals

Title OF Practicals	MAXIMUM MARKS	MINIMUM MARKS	Credits	PAPER CODE
I Gardening	150	75	12 Credits	PGDHL P001
II Landscape Gardening	150	75	12 Credits	PGDHLP002

Total Credits = 48



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Syllabus for Post Graduate Diploma

PG Diploma in Horticulture and Landscape designing

PAPER - I: GARDENING (12 credits)

- 1) Garden Design:
 - Scope and objectives of gardening
 - Style of gardens: Formal, Informal
 - Types of gardens: English, Mughal and Japanese.
 - Components of garden
 - Planning of outdoor gardens: Small, Residential, Larger Home Garden, Roof Garden, Terrace Garden, Children's garden, School and Institutional Garden, Park, Industrial garden, Housing complex, Indoor gardening
- 2) Garden Features and Ornamentation:
 - Water, Garden pool, Stream, Waterfall, Fountain, Rocks, Roads, Walks, Pavements and Steps, Walls fences and Gates, Hedges, Edges, Arches, Pergolas, Screens and Bridges, Lawns, Flower beds, Borders, Carpet bedding, Shrubberies, Plant containers & raised beds, Statues, Towers, Plant stands, Green House, Conservatories, Night-lights
- 3) Specialized Gardens:
 - · Herb garden, Rose garden, Bog garden, Sunken garden, Topiary garden, Kitchen garden, Paved garden, Dish garden, Rock garden, Terrace garden, Water garden & Bottle garden (Terrarium).
- 4) Nursery production and management:
 - Scope, Site, Soil, Environment, Layout, Manure, Fertilizers, Maintenance, Garden tools, Culture and Garden calendar, Types, Nursery beds, Pest & Disease management. Hi-tech Nursery.
- 5) Propagation of ornamental plants by seeds, layering, cuttings, grafting, budding & tissue culture.
- 6) Plant disorders including nutrition, pests and diseases, and chimaeras
- 7) Trees and their significance in garden and landscape designing



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2010: IMC RBNQ Award 'Performance Excellence' for the year 2009 Maharashtra, INDIA 2019: Star College Status by DBT 2008: Best College by University of Mumbai 2011: 'Best Teacher Award' by Government of Maharashtra 2013: DST-FIST 2014: DBT STAR College



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- 8) Concept of container / pot garden and designs
- 9) Ground cover plants
- 10) Ornamental ferns and their propagation
- 11) Herbaceous perennials
- 12) Annuals & Biennials: Important Genera and Species, their importance in garden designs
- 13) Orchids: Environment, propagation, potting & compost, nutrient supply, watering, important species
- 14) Morphology of root, stem, leaf, inflorescence, flower, fruit and seeds of plant
- 15) Vegetative propagation techniques: Cutting and its types, Budding and its types, Grafting and it types.

16) Propagation of bulb plants: Scaling, Scooping, Bulbils, Division, Cutting

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PAPER - II: LANDSCAPE DESIGNS AND FLORICULTURE (12 Credits)

- Landscape Design: Definition, objectives and scope, Landscape elements of construction and designing of Residential, Commercial, Bungalow, Public area, Hotel, Educational Institute and religious places
- 2) Computer application in landscape
- Palms and Cycas: Characteristics, propogation, culture, pest and disease, importance and uses, genera and species of palms and Cycas.
- 4) Bamboo and conifers: Genera, species and varieties
- 5) Shrubs: Different types
- 6) Climbers and Bougainvillea: Different types
- 7) Hedges for gardens & farms
- 8) Lawns & Grasses: Planting methods, maintenance, pest management
- 9) Ornamental succulents, Cacti and Aquatic plants
- 10) Polyhouse technology: Scope and objectives of floriculture.
 - Cultivation practices of following cut flowers in polyhouse: Gerbero, Anthurium, Carnation,
 Roses
- 11) Development of flowerbeds and their designs
- 12) Preparation of Bonsai and Flower Arrangement
- 13) Application of tissue culture
- 14) Global Warming, Carbon Credit, Rainwater Harvesting and Green Building Concept
 - Visits to Gardens, Nurseries, Agriculture Colleges/Universities, Exhibitions, Polyhouses, Flower shows etc.
 - · In-house Training



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Practical I: Horticulture (12 credits)

- 1. Preparation of garden layout: Public, private, formal and Informal
- 2. Identification of plants suitable for different garden locations.
- 3. Methods of Preparing dish garden, bottle garden (terrarium), bonsai.
- 4. Plant propagation practices by seeds, vegetative propagation, cutting, budding, layering, grafting. Propagation of bulbous plants: scaling, scooping.
- 5. Seed beds, nurseries and maintenance.
- 6. Identification of plants as green manures.
- Identification of plant diseases and pests: viral (leaf curl, yellow mosaic), bacterial (wilt and cankers), fungal (rust, smut, wilt, blight, powdery mildew), non insect pests (nematodes and rodents)
- 8. Different types of pots and potting medium
- 9. Garden tools and implements.
- 10. Soil tests: Types of soil, water holding capacity, field capacity, Electrical conductivity, pH.
- 11. Study of irrigation techniques, water conservation.
- 12. Visual diagnosis of nutrient deficiencies and toxicity in the field
- 13. Identification of weeds. Methods of weed control.

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Practical II (12 credits)

- 1. Landscape designing
- 2. Methods of making lawn, turf
- 3. Identification of ornamental succulents, aquatic plants.
- 4. Flower arrangement: Western and Japanese style
- 5. Organic fertilizers: Farmyard manure, Compost, vermicompost, biofertilisers

Field Visit: Visit to various gardens (public and private) and plant nurseries

Project Work: Includes Internship

References:

- 1. Arora J S (1990). Introductory Ornamental Horticulture, Kalyani Publication.
- Bailey L H 1901. The Standard cyclopedia of Horticulture, volume 1.2 and 3 Macmillan Publications
- 3. Bose T K and Mukerjee D 1987, Gardening in India, Oxford Book House
- 4. Chauhan V S Vegetable Production in India, RamPrasad and Sons
- 5. Kumar N 1989 Introduction to Horticulture, Rajalakshmi Publications.
- 6. Manibhushan Rao 1991. Text book of Horticulture, Macmillan Publications.
- 7. Shujnrnoto, 1982. The Essentials of Bonsai, David & Charles, Newton.



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Post Graduate Diploma Program in Horticulture and Landscape Designing

REPORT

The Post Graduate Diploma Program in Horticulture and Landscape Designing aims at encouraging students to take a sustainable way of life and make the planet green. The program commenced 31st July 2019 and lectures were conducted on various topics. The the resource persons were Dr. Usha Mukundan, Ms. Namrata Jaiswal, Mr. Yashesh Mirgal and the program was conducted during the weekend. Students were given hands on training. Students were taught AutoCAD for designing. Students were taken to field trips and flower exhibitions. There was continuous evaluation along with practicals and the program was conducted in two semesters. 41 students successfully completed the course.

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POST GRADUATE DIPLOMA PROGRAM IN HORTICULTURE AND LANDSCAPE DESIGNING

LIST OF STUDENTS WHO COMPLETED THE COURSE

SR NO	NAME OF THE STUDENT	ROLL NO
1	FATEMA FAKHRUDDIN NALWALA	101
2	BHOIR RUSHABH	102
3	BHOSALE ABHIJIT	103
4	BHOSALE RAJABAI	104
5	DALI ANKIT	106
6	GAIKWAD RUTURAJ	107
7	GAMRE TRUSHNALI	108
8	GAWADE PRATIKSHA	109
9	GOLE-CHALKE ARCHANA	110
10	GURAV VIVEK	111
11	HARNAIKAR ARBAZ	112
12	KADAM AKSHAYA	113
13	KANGRALKAR SOMNATH	114
14	KARMARKAR DIVYA	115
15	KHATATE AAKASH	116
16	LULANI SOHEL	117
17	MANE UDAY	118
18	MAURYA RAKHI	119
19	METHAR SUPRIYA	120
20	MOHOD RAKSHA	121
21	NAIK APURVA	122
22	PANCHAL KOMAL	123
23	PATEKAR AADESH	124
24	PATIL AMIT	125
25	PAWAR AMOL	126
26	RANE MANGESH	127
27	RANE VISHAL	128
28	RAUL VIRESH	129
29	SHETTY SARTIKA	130
30	UGAVEKAR PRAJAKTA	132
31	WALUNJ DISHA	133
32	REPALE VIKAS	134
33	AITHAL HARSHINI	135
34	CHOUDHARY INDRA	136
35	HADAL VISHAL	137



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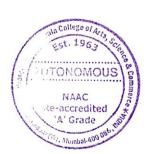


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36	JADHAV ANIKET	138
37	GANESH INDU	139
38	PATIL GAURI	140
39	PEDNEKAR YASHVANT	141
40	NIKAM NITESH	142
41	TAWDE VIKRANT	143



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CERTIFICATE OF MERIT



This is to certify that

FATEMA FAKHRUDDIN NALWALA SAKINA NALWALA

has secured

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in Postgraduate Diploma in Horticulture and Landscape Gardening in the examination held in Aug 2020.

CONTROLLER OF EXAMINATION
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Certificate ID: PGDHLG-201920-01