

**ORDINANCES, OUTLINES OF TESTS, SYLLABI AND
COURSES OF READING**

FOR

**CAREER ORIENTED ADD-ON-COURSE IN
FLORICULTURE**

Session 2018-2019



Mata Gujri College, Sri Fatehgarh Sahib

(An Autonomous College)

Re-Accredited with 'A' Grade by NAAC

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MATA GUJRI COLLEGE, FATEHGARH SAHIB
ORDINANCES FOR CERTIFICATE COURSE/DIPLOMA/ADVANCED DIPLOMA
COURSE IN FLORICULTURE
Session 2018-19
(ADD-ON-COURSE)

The certificate course/ diploma/Advanced Diploma in Floriculture, a career oriented Programme of UGC introduced as an Add-on-Course at First Degree level in B. A./B. Sc. will be covered under following ordinances.

1. The candidate after passing examination will be awarded a separate "Certificate Course/Diploma/Advanced Diploma in Floriculture in addition to his/her regular degree /Detailed Marks certificate of B.A. /B.Sc. after 1st/2nd/3rd year of degree.
2. **Certificate Course:** The course will be of 20 credits. Each credit will have 15 hours of workload out of which 8 credits will be assigned to field work/project work/training. The proof of this should be submitted during examination e.g. work experience certificate/dissertation/report etc. duly issued and signed by the concerned institutional authority/coordinator/faculty.
3. **Diploma Course:** The course will be 40 credits (20 credits earned during Certificate Course). Each credit will have 15 hours of workload out of this 8 credits will be assigned to field work/project work/training. The proof of this should be submitted during the examination.
4. **Advanced Diploma Course:** The course will be 60 credits (40 credits earned together during Certificate and Diploma Courses respectively). Each credit will have 15 hours of workload. Out of this 8 credits will be assigned to field work/project work/training. The proof of this (field work/project work/training) should be submitted during the examination
5. Certificate/Diploma/advanced Diploma in Career Oriented Programmes will be awarded on the basis of examination results and credits earned. Students may be permitted to complete Certificate/Diploma/Advanced diploma in the same subject/course or by completing the credits from other Inter-disciplinary Career Oriented courses.
6. The College will maintain a record of students who have completed the three-year degree course along with a 'Career Oriented Course' so that information is available about the activity/status of these graduates.
7. The supplementary examination shall be held in the semester to which paper belongs or as fixed by the Academic Council. The examination shall be open to candidates who have been declared reappear in Certificate course/Diploma/Advance Diploma course.

8. In pursuance of the policy of the UGC, since a student is completing 900 hours of learning, Universities may consider issue of Honours degree to that student, who have successfully completed concurrently three certificates or Certificate, Diploma and Advanced diploma in a stream along with the degree course.
9. Number of seats in each class (Certificate/ Diploma/ Advanced Diploma) will be 30.
10. The candidate who does not pass in the supplementary examination will be given another chance to appear in the above said course along with forthcoming semester examination.
11. A candidate who passed the course in the supplementary examination or in the third chance in semester examination can appear alongside in next subsequent examination of the above said course.
12. The candidate who is unable to pass the course in three given chances will not be allowed to continue the above said course.
13. Every candidate will be required to attend minimum of 75% lectures/periods delivered to that class.
14. The candidate must obtain 35% of the total marks in theory and practical separately to pass the course.
15. The candidate must have obtained at least 25% marks in subject in Mid-semester Examinations.
16. Candidates will be offered English/Punjabi as the medium of Instructions/Examination.

Outline of ADD- ON- COURSE IN FLORICULTURE

Course Name/ Title	Year	Semester	Marks			Credits		
			Theory	Prac.	Field Work/ Project/Training	Theory	Prac.	Field Work Report/ Project/ Training
Certificate	Ist	Ist	60+40	50		4	2	
		IInd	60+40	50	200	4	2	8
								Total Credits: 20 Total Marks:500 Total Hours:300
Diploma	IInd	IIrd	60+40	50		4	2	
		IVth	60+40	50		4	2	8
								Total Credits: 20 Total Marks:500 Total Hours:300
Advanced Diploma	IIIrd	Vth	60+40	50		4	2	
		VIth	60+40	50		4	2	8
								Total Credits: 20 Total Marks:500 Total Hours:300

**Syllabus for One Year Certificate Course In
Floriculture (Career Oriented Add-on-Course)
Semester-I**

Maximum marks: 150
Theory: 100
External Evaluation: 60
Internal assessment: 40
Pass Marks: 40%
Total Credits 4 (Th.) + 2 (Prac.)

Practical: 50
Hours/week: 4+4

Instructions for paper setter and candidates.

The question paper will consist of three sections A, B and C. Each of sections A and B will have 02 questions from the respective Sections of the syllabus. Each question shall carry 15 marks. Section C will consist of 10 short answer type questions of 1.5 marks each. Candidates are required to attempt any three questions, selecting atleast one from each section. Section C will be compulsory.

SECTION- A

1. Floriculture: Scope and Importance; environmental factors influencing plant growth and flower production under open and green house condition; vegetative propagation and its types.
2. Characteristics of principal groups of plants: trees, shrubs and climbers.

SECTION- B

3. Propagation, soil nutrition, disease and pest of Rose: Catterpillar, maggots
4. Propagation, soil nutrition, disease and pest of Gladiolus: aphids and bugs

PRACTICALS

Maximum Marks: 50
Pass Marks 40%

Hours/week : 04
Time allowed : 3 Hours

1. Seed collection and germination: Wheat,Rice,Maize,Mustard.
- 2.To study the most commonly occurring flowers in Punjab.
3. Production of pot flower.
4. Morphology of typical flower structure.

Books Recommended

1. Floriculture in India- G.S. Randhawa and A.Mukopandhay.
2. Text Book of floriculture and Landscaping-N.Roychowdhury..
3. *Flowers and Trees* by M.S. Randhawa.

**Syllabus for One Year Certificate Course In
Floriculture (Add On Course)
Semester II**

Maximum marks: 150
Theory: 100
External Evaluation: 60
Internal assessment: 40
Pass Marks: 40%
Total Credits 4 (Th.) + 2 (Prac.)

Practical: 50
Hours/week: 4+4

Instructions for paper setter and candidates.

The question paper will consist of three sections A, B and C. Each of sections A and B will have 02 questions from the respective Sections of the syllabus. Each question shall carry 15 marks. Section C will consist of 10 short answer type questions of 1.5 marks each. Candidates are required to attempt any three questions, selecting atleast one from each section. Section C will be compulsory.

SECTION-A

1. Production Technology of cut flower; Scope in global trade; environmental factors affecting flower production- light, temperature, moisture, CO₂.
2. Open cultivation; Protected cultivation; Soil requirements; artificial growing media; soil decontamination technique for flower production.

SECTION-B

3. Cut flowers harvesting techniques, Post harvest handling, Packing, Marketing.
4. Landscaping background: Characteristics of formal and informal gardens.

PRACTICALS

Maximum Marks: 50
Pass Marks 40%

Hours/week : 04
Time allowed : 3 Hours

1. Identification of different groups of ornamental plants (Trees, Shrubs, Climbers, Palm).
2. Layout of Lawn and its maintenance.
3. Floral characters of some common flowers.
4. Visit to parks, gardens, nursery and commercial flowers growing areas.

Books Recommended

1. *Complete gardening in India* by GopaldaswamiIyanger.
2. *Beautiful Trees and Gardens* by M.S.Randhawa.
3. *Flowers and Trees* by M.S. Randhawa

**Syllabus for Two Years Diploma Course In
Floriculture (Add On Course)
Semester III**

Maximum marks: 150
Theory: 100
External Evaluation: 60
Internal assessment: 40
Pass Marks: 40%
Total Credits 4 (Th.) + 2 (Prac.)

Practical: 50
Hours/week: 4+4

Instructions for paper setter and candidates.

The question paper will consist of three sections A, B and C. Each of sections A and B will have 02 questions from the respective Sections of the syllabus. Each question shall carry 15 marks. Section C will consist of 10 short answer type questions of 1.5 marks each. Candidates are required to attempt any three questions, selecting atleast one from each section. Section C will be compulsory.

SECTION-A

Protected Floriculture:

1. Protected Floriculture in India; Types of Protected Structures: Greenhouses, Polyhouses.
2. Suitable flower crops for protected cultivation, Environmental control, Management of temperature, Light, humidity, air, CO₂ for protected cultivation.

SECTION-B

3. Propagation, soil nutrition and pest (Aphids and white flies) of *Crysanthamum*.
4. Types of gardens- English, Mughal and urban landscaping.

PRACTICALS

Maximum Marks: 50
Pass Marks 40%

Hours/week : 04
Time allowed : 3 Hours

1. Preparation of cut flowers and their maintenance.
2. Development of garden Features.
3. Care and maintenance of indoor plants.
4. Visit to Greenhouse and Polyhouse.

Books Recommended

1. Complete gardening in India- K.S.G. Gopalswami.
2. *Beautiful Trees and Gardens* by M.S.Randhawa.
3. Commercial flowers- T.K.Bose and L.P.Yadav

**Syllabus for Two Years Diploma Course In
Floriculture (Add On Course)
Semester-IV**

Maximum marks: 150
Theory: 100
External Evaluation: 60
Internal assessment: 40
Pass Marks: 40%
Total Credits 4 (Th.) + 2 (Prac.)

Practical: 50
Hours/week: 4+4

Instructions for paper setter and candidates.

The question paper will consist of three sections A, B and C. Each of sections A and B will have 02 questions from the respective Sections of the syllabus. Each question shall carry 15 marks. Section C will consist of 10 short answer type questions of 1.5 marks each. Candidates are required to attempt any three questions, selecting atleast one from each section. Section C will be compulsory.

SECTION-A

1. Production technology for loose flowers: soil and climate requirements, field preparation, weed management.
2. Crop regulation by chemical methods and special horticulture practices (Pinching, disbudding, deshooting).

SECTION-B

3. Breeding: Genetic inheritance of flower colour, flower size; Breeding methods suitable for sexually propagated flowers crops.
4. Landscaping and gardening: National element of landscape; factors affecting landscape designs; some important terms used in landscape gardening.

PRACTICALS

Maximum Marks: 50
Pass Marks 40%

Hours/week : 04
Time allowed : 3 Hours

1. To study the internal structure of flowers.
2. Training and pruning of rose, pinching, disbudding, deshooting of *Chrysanthemum*.
3. To prepare the Herbarium file.
4. Visit to parks, gardens, nursery and commercial flowers growing areas.

Books Recommended

1. Floriculture in India- G.S. Randhawa and A.Mukopandhay.
2. Complete gardening in India- K.S.G Gopalswami.
3. *Flowers and Trees* by M.S. Randhawa

**Syllabus for Three Year Advanced Diploma Course In
Floriculture (Add On Course)
Semester V**

Maximum marks: 150
Theory: 100
External Evaluation: 60
Internal assessment: 40
Pass Marks: 40%
Total Credits 4 (Th.) + 2 (Prac.)

Practical: 50
Hours/week: 4+4

Instructions for paper setter and candidates.

The question paper will consist of three sections A, B and C. Each of sections A and B will have 02 questions from the respective Sections of the syllabus. Each question shall carry 15 marks. Section C will consist of 10 short answer type questions of 1.5 marks each. Candidates are required to attempt any three questions, selecting atleast one from each section. Section C will be compulsory.

SECTION- A

1. Types of value added products; value addition in loose flowers;floral decorations; value addition in cut flowers and flower arrangements.
2. Selection of containers and accessories for floral products and decorations.

SECTION- B

3. Propagation, soil nutrition of marigold and carnation.
4. Principles of landscaping: prepration of landscape plants for home industry and institutes.

PRACTICALS

Maximum Marks: 50
Pass Marks 40%

Hours/week : 04
Time allowed : 3 Hours

1. Seed collection and germination: gram seeds, varieties of Mustard seeds.
2. To study the techniques used in dry flower making.
3. Production of pot flower and their management.
4. Visit to parks.

Books Recommended

1. Floriculture in India- G.S. Randhawa and A.Mukopandhay.
2. Complete gardening in India- K.S.G Gopalswami.
3. *Flowers and Trees* by M.S. Randhawa.

**Syllabus for Three Year Advanced Diploma Course In
Floriculture (Add On Course)
Semester VI**

Maximum marks: 150
Theory: 100
External Evaluation: 60
Internal assessment: 40
Pass Marks: 40%
Total Credits 4 (Th.) + 2 (Prac.)

Practical: 50
Hours/week: 4+4

Instructions for paper setter and candidates.

The question paper will consist of three sections A, B and C. Each of sections A and B will have 02 questions from the respective Sections of the syllabus. Each question shall carry 15 marks. Section C will consist of 10 short answer type questions of 1.5 marks each. Candidates are required to attempt any three questions, selecting atleast one from each section. Section C will be compulsory.

SECTION- A

1. Dry flowers: Identification and selection of flowers and plant parts; Raw material; preservation and storage.
2. Techniques in dry flower making- Drying bleaching, dyeing, pressing.

SECTION- B

3. Designing and arrangement from dry flower baskets, bouquets, wall hangings, greeting cards.
4. Establishment and maintenance of special types of gardens – roof garden, rock garden, temple garden.

PRACTICALS

Maximum Marks: 50
Pass Marks 40%

Hours/week : 04
Time allowed : 3 Hours

1. Preparation of bouquets and greeting cards from flowers.
2. To study the characters of climbers, shrubs and herbs.
3. Production of loose flowers and their management.
4. Visit to commercial flowers growing areas.

Books Recommended

1. Floriculture in India- G.S. Randhawa and A.Mukopandhay.
2. Complete gardening in India- K.S.G Gopalswami.
3. *Flowers and Trees* by M.S. Randhawa.