

SCHEME

Master of Science in Agriculture
(As per, 5th Dean Committee of ICAR)

Faculty of Agriculture Science & Technology

Department of Agriculture Science



Study and Evaluation Scheme of

M. Sc. (Ag.) Genetics and Plant Breeding

{*Remedial Courses: These papers are compulsory for the student who has completed his/her Graduate in Biology (10+2+3)}

(Applicable w.e.f. Academic Session 2018 to till revised)

Duration of Course: 02 year
Mode of Examination: Semester

**SWAMI VIVEKANAND
UNIVERSITY, SIRONJA, SAGAR,
(M.P.)**

** The University Authorities reserve all the rights to make any additions/ deletions or changes.



Swami Vivekanand University, Sagar (M.P.)



Scheme- First Semester M.Sc. (Genetics and Plant Breeding)

| Paper Code | Paper Name | Credit | Theory | Sessional | Total | | Practical | |
|--------------|---|------------------|------------|-------------------------------|------------|------------|------------|------------|
| | | | Max. | Max. | Max. | Min. | Max. | Min. |
| GPB-501 | Principles of Genetics | 3(2+1) | 80 | 20 | 100 | 50 | 50 | 30 |
| GPB-502 | Principles of Cytogenetic | 3(2+1) | 80 | 20 | 100 | 50 | 50 | 30 |
| GPB-503 | Principles of Plant Breeding | 3(2+1) | 80 | 20 | 100 | 50 | 50 | 30 |
| GPB-504 | Cell Biology and Molecular Genetics | 3(2+1) | 80 | 20 | 100 | 50 | 50 | 30 |
| PP-502 | Mycology | 3(2+1) | 80 | 20 | 100 | 50 | 50 | 30 |
| PP-504 | Detection and Diagnosis of Plant Diseases | 2(0+2) | - | - | - | - | 100 | 60 |
| STAT-501 | Statistical Methods for Applied Sciences | 4(3+1) | 80 | 20 | 100 | 50 | 50 | 30 |
| FHR-101 | Fundamentals of Horticulture* | 2(1+1) | | Satisfactory/Non Satisfactory | | | | |
| FSS-103 | Fundamentals of Soil Science* | 3(2+1) | | Satisfactory/Non Satisfactory | | | | |
| FAG-106 | Fundamentals of Agronomy* | 4(3+1) | | Satisfactory/Non Satisfactory | | | | |
| PGS-501 | Basic Concept in Laboratory Techniques | N.C. | | Satisfactory/Non Satisfactory | | | | |
| PGS-502 | Agricultural Research, Research Ethics and Rural Development Programmes | N.C. | | Satisfactory/Non Satisfactory | | | | |
| Total | | 30(19+11) | 480 | 120 | 600 | 300 | 400 | 240 |

*Remedial Courses: These papers are compulsory for the student who has completed his/her Graduate in Biology (10+2+3).



Swami Vivekanand University, Sagar (M.P.)



Scheme- Second Semester M.Sc. (Genetics and Plant Breeding)

| Paper Code | Paper Name | Credit | Theory | Seasonal | Total | | Practical | |
|--------------|---|-----------------|------------|-------------------------------|------------|------------|------------|------------|
| | | | Max. | Max. | Max. | Min. | Max. | Min. |
| GPB-511 | Principles of Quantitative Genetics | 3(2+1) | 80 | 20 | 100 | 50 | 50 | 30 |
| GPB-512 | Biotechnology for Crop Improvements | 3(2+1) | 80 | 20 | 100 | 50 | 50 | 30 |
| GPB-513 | Maintenance Breeding and Concept of Variety Release and Seed Production | 2(1+1) | 80 | 20 | 100 | 50 | 50 | 30 |
| PP-512 | Integrated Disease Management | 3(2+1) | 80 | 20 | 100 | 50 | 50 | 30 |
| PP-513 | Mushroom Production Technology | 3(2+1) | 80 | 20 | 100 | 50 | 50 | 30 |
| STAT-511 | Design of Experiments | 3(2+1) | 80 | 20 | 100 | 50 | 50 | 30 |
| FPP-206 | Fundamentals of Plant Pathology* | 4(3+1) | | Satisfactory/Non Satisfactory | | | | |
| FEN-207 | Fundamentals of Entomology* | 4(3+1) | | Satisfactory/Non Satisfactory | | | | |
| PGS-511 | Library and Information Services | N.C. | | Satisfactory/Non Satisfactory | | | | |
| PGS-512 | Intellectual Property and its Management in Agriculture | N.C. | | Satisfactory/Non Satisfactory | | | | |
| Total | | 25(17+8) | 480 | 120 | 600 | 300 | 300 | 180 |

*Remedial Courses: These papers are compulsory for the student who has completed his/her Graduate in Biology (10+2+3).



Swami Vivekanand University, Sagar (M.P.)



Scheme- Third Semester M.Sc. (Genetics and Plant Breeding)

| Paper Code | Paper Name | Credit | Theory | Seasonal | Total | | Practical | |
|--------------|---|-----------------|--------|-------------------------------|-------|------|------------|-----------|
| | | | Max. | Max. | Max. | Min. | Max. | Min. |
| GPB-591 | Masters Seminar | 1(0+1) | - | - | - | - | 100 | 50 |
| GPB-599 | Masters Research (Under Process) | 10(0+10) | | Satisfactory/Non Satisfactory | | | | |
| FPB-302 | Fundamentals of Plant Breeding* | 3(2+1) | | Satisfactory/Non Satisfactory | | | | |
| PGS-521 | Technical Writing and Communication Skill | N.C. | - | - | - | - | - | - |
| PGS-522 | Disaster Management | N.C. | - | - | - | - | - | - |
| SVN-500 | Charitra Nirman Evam Samgra Vyaktitva Vikas | N.C. | | | | | | |
| Total | | 14(2+12) | | | | | 100 | 50 |

*Remedial Courses: These papers are compulsory for the student who has completed his/her Graduate in Biology (10+2+3).



Swami Vivekanand University, Sagar (M.P.)



**Scheme- Fourth Semester
M.Sc. (Genetics and Plant Breeding)**

| Paper Code | Paper Name | Credit | Theory | Seasonal | Total | | Practical | |
|------------|-----------------------------|----------|--------|-------------------------------|-------|------|-----------|------|
| | | | Max. | Max. | Max. | Min. | Max. | Min. |
| GPB-599 | Masters Research (Accepted) | 10(0+10) | - | Satisfactory/Non Satisfactory | - | - | - | - |