**DEPARTMENT OF BOTANY**

NUMBER OF COURSES

BSC CBCS



MSC CBCS



PHD COURSEWORK

|  |  |  |  |
| --- | --- | --- | --- |
| **Course Nature** | **Course Code** | **Core Courses** | **Credit** |
| **Category A :Compulsory Course** |
| **Compulsory Course****(CORE)** | BOT 601 | Research Methodology | 3+1 |
| BOT 602 | Research and Publication Ethics | 1+1 |
| BOT 603 | Computer Fundamentals and IT | 1+1 |
| BOT 604 | Credit Seminar | 0+1 |
|  | **09 Credits** |
|  |
|  | **Category B :Elective Course (*Any two of the followings*)** |
| **Discipline-Specific Courses (for Botany scholars)** | BOT 605 | Advance Techniques in Plant Sciences | 2+1 |
| BOT 606 | Advances in Mycology and Plant Pathology | 2+1 |
| BOT 607 | Advances in Plant Physiology | 2+1 |
| BOT 608 | Advances in Plant Biosystematics and Taxonomy | 2+1 |
| BOT 609 | Air pollution and climate change  | 2+1 |
| BOT 610 | Biological control and Biopesticides | 2+1 |
|  | **06 Credits** |
|  |
|  | **Category C: Open Elective Course (*Any two of the followings*)** |
| **Research Theme- Specific Courses (open for other subject scholars)** | BOT 611 | Biodiversity and its conservation  | 2+1 |
| BOT 612 | Phytoremediation  | 2+1 |
| BOT 613 | Medicinal plants and pharmacognosy | 2+1 |
| BOT 614 | Environmental Awareness | 2+1 |
| BOT 615 | Water Resources | 2+1 |
| BOT 616 | Protein Biochemistry  | 2+1 |
|  | **06 Credits** |
|  |  | Thesis | Non Credit |
|  |  | **Total** | **21 Credits** |

DIPLOMA IN HYDROPONICS TECHNOLOGY

**PG DIPLOMA IN HYDROPONICS TECHNOLOGY**

**Course structure**

**SEMESTER I**

|  |  |  |
| --- | --- | --- |
| **Course code** | **COURSES** | **Credits (T + P)\*** |
| **DHT-101** | Introduction to hydroponics | 2+1 |
| **DHT-102** | Plant nutrition requirements | 2+1 |
| **DHT-103** | Hydroponics medium  | 2+1 |
| **DHT-104** | Hydroponics systems | 2+1 |
| **DHT-105** | Project  | 2 |
|  | Seminar  | 1 |
|  |  | **15** |

**SEMESTER II**

|  |  |  |
| --- | --- | --- |
| **Course code** | **COURSES** | **Credits (T + P)\*\*** |
| **DHT-106** | Plants culture techniques | 2+1 |
| **DHT-107** | Hydroponic greenhouse management | 2+1 |
| **DHT-108** | Diagnostic testing and pest control | 2+1 |
| **DHT-109** | Managing a hydroponic farm | 2+1 |
| **DHT-110** | **Field internship** | 3 |
| **DHT-111** | **Dissertation**  | 2 |
|  | **Seminar**  | 1 |
|  |  | **18** |