**Mangalayatan University**

**Jabalpur**

**Curriculum**

**(Choice Based Credit System)**

**for**

**B.Sc. (Agriculture)**

**Department of Agriculture**

**Institute of Engineering & Technology**

**2019-2020**

**Total Program Credits for B.Sc. (Agriculture)**

|  |  |  |
| --- | --- | --- |
| **S.No** | **Semester** | **Credits** |
| **1** | **I** | **22** |
| **2** | **II** | **22** |
| **3** | **III** | **23** |
| **4** | **IV** | **23** |
| **5** | **V** | **24** |
| **6** | **VI** | **26** |
| **7** | **VII** | **20** |
| **8** | **VIII** | **20** |
|  | **Total** | **180** |

Induction Program

Conduction of induction program as per UGC/Regulatory Body‘s guideline.

**Semester I**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Subject Code** | **Subject** | **Subject Area** | **Periods** | **Credit** | **Subject Total** |
| **Theory** | **L** | **T** | **P** |
| 1 | UG01 | AGL-1101 | Fundamentals of Plant Biochemistry and Biotechnology | DCC | 2 | 0 | 0 | 2 | 100 |
| 2 | UG01 | AGL-1102 | Introductory Agro meteorology & Climate Change | DCC | 1 | 0 | 0 | 1 | 100 |
| 3 | UG01 | AGL-1103 | Fundamentals of Agronomy | DCC | 3 | 0 | 0 | 3 | 100 |
| 4 | UG01 | AGL-1104 | Rural Sociology and Educational Psychology | DCC | 2 | 0 | 0 | 2 | 100 |
| 5 | UG01 | AGL-1105 | Agricultural Informatics | AECC | 1 | 0 | 0 | 1 | 100 |
| 6 | UG01 | AGL-1106 | Fundamentals of Genetics | DCC | 2 | 0 | 0 | 2 | 100 |
| 7 | UG01 | ENL-1101 | Comprehension and Communication Skills in English | AECC | 1 | 0 | 0 | 1 | 100 |
| 8 | UG01 | AGL-1108 | Agricultural Heritage | AECC | 1 | 0 | 0 | 1 | 100 |
| 9 | UG01 |  | Remedial Course | GEC |  |  |  |  | 100 |
| **Practical** |
| 10 | UG01 | AGP-1101 | Fundamentals of Plant Biochemistry and Biotechnology Lab | DCC | 0 | 0 | 2 | 1 | 100 |
| 11 | UG01 | AGP-1102 | Introductory Agro meteorology & Climate Change Lab | DCC | 0 | 0 | 2 | 1 | 100 |
| 12 | UG01 | AGP- 1103 | Fundamentals of Agronomy Lab | DCC | 0 | 0 | 2 | 1 | 100 |
| 13 | UG01 | AGP- 1104 | Agricultural Informatics Lab | AECC | 0 | 0 | 2 | 1 | 100 |
| 14 | UG01 | AGP- 1106 | Fundamentals of Genetics Lab | DCC | 0 | 0 | 2 | 1 | 100 |
| 15 | UG01 | ENP- 1101 | Comprehension and Communication Skills in English Lab | AECC | 0 | 0 | 2 | 1 | 100 |
| 16 | UG01 |  | Remedial Practical | GEC |  |  |  |  | 100 |
| 17 | UG01 | AGP- 1107 | NSS/NCC/ Physical Education & Yoga Practices | GEC | 0 | 0 | 2 | 1 | 100 |
| **TOTAL** | 13/14 | 0 | 16 /18 | 22 | **1600****/****1700** |

|  |
| --- |
| **Remedial Courses** |
| **S. No.** | **Course Code** | **Course** | **Periods** | **Credit** |
| 1 | AGL-1109 | Introductory Biology | 1 | 0 | 0 | 1 |
| AGP- 1109 | Introductory Biology Lab | 0 | 0 | 2 | 1 |
| 2 | MAL-1102 | Elementary Mathematics | 2 | 0 | 0 | 2 |

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**SEMESTER II**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Subject Code** | **Subject** | **Subject Area** | **Periods** | **Credit** | **Subject Total** |
| **Theory** | **L** | **T** | **P** |
| 1 | UG01 | AGL-1201  | Fundamentals of Agricultural Economics | DCC | 2 | 0 | 0 | 2 | 100 |
| 2 | UG01 | AGL-1202 | Fundamentals of Crop Physiology | DCC | 1 | 0 | 0 | 1 | 100 |
| 3 | UG01 | AGL-1203 | Statistical Methods | DCC | 2 | 0 | 0 | 2 | 100 |
| 4 | UG01 | AGL-1204 | Agricultural Microbiology | DCC | 1 | 0 | 0 | 1 | 100 |
| 5 | UG01 | AGL-1205 | Introductory Soil and Water Conservation Engineering | AECC | 1 | 0 | 0 | 1 | 100 |
| 6 | UG01 | AGL-1206 | Fundamentals of Soil Science | DCC | 2 | 0 | 0 | 2 | 100 |
| 7 | UG01 | AGL-1207 | Fundamentals of Plant Pathology | AECC | 2 | 0 | 0 | 2 | 100 |
| 8 | UG01 | AGL-1208 | Communication Skills and Personality Development | AECC | 1 | 0 | 0 | 1 | 100 |
| 9 | UG01 | AGL-1209 | Fundamentals of Horticulture | DCC | 1 | 0 | 0 | 1 | 100 |
| **Practical** |
| 10 | UG01 | AGP-1202 | Fundamentals of Crop Physiology Lab | DCC | 0 | 0 | 2 | 1 | 100 |
| 11 | UG01 | AGP-1203 | Statistical Methods Lab | DCC | 0 | 0 | 2 | 1 | 100 |
| 12 | UG01 | AGP-1204 | Agricultural Microbiology Lab | DCC | 0 | 0 | 2 | 1 | 100 |
| 13 | UG01 | AGP-1205 | Introductory Soil and Water Conservation Engineering Lab | AECC | 0 | 0 | 2 | 1 | 100 |
| 14 | UG01 | AGP-1206 | Fundamentals of Soil Science Lab | DCC | 0 | 0 | 2 | 1 | 100 |
| 15 | UG01 | AGP-1207 | Fundamentals of Plant Pathology Lab | AECC | 0 | 0 | 2 | 1 | 100 |
| 16 | UG01 | AGP-1208 | Communication Skills and Personality Development Lab | AECC | 0 | 0 | 2 | 1 | 100 |
| 17 | UG01 | AGP-1209 | Fundamentals of Horticulture Lab | DCC | 0 | 0 | 2 | 1 | 100 |
| 18 | UG01 | AGP-1210 | NSS/NCC/Physical Education & Yoga Practices (Non gradial) | GEC | 0 | 0 | 2 | 1 | 100 |
| **TOTAL** | 13 | 0 | 18 | 22 | 1800 |

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**SEMESTER III**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Subject Code** | **Subject** | **Subject Area** | **Periods** | **Credit** | **Subject Total** |
| **Theory** | **L** | **T** | **P** |
| 1 | UG01 | AGL-2101  | Crop Production Technology-I (*Kharif* Crops) | AECC | 1 | 0 | 0 | 1 | 100 |
| 2 | UG01 | AGL-2102 | Fundamental of Plant Breeding  | DCC | 2 | 0 | 0 | 2 | 100 |
| 3 | UG01 | AGL-2103 | Agricultural Finance and Cooperation  | DCC | 2 | 0 | 0 | 2 | 100 |
| 4 | UG01 | AGL-2104 | Farm Machinery and Power  | DCC | 1 | 0 | 0 | 1 | 100 |
| 5 | UG01 | AGL-2105 | Environmental Studies and Disaster Management  | DCC | 2 | 0 | 0 | 2 | 100 |
| 6 | UG01 | AGL-2106 | Problematic Soils and their Management | AECC | 2 | 0 | 0 | 2 | 100 |
| 7 | UG01 | AGL-2107 | Fundamental of Entomology | DCC | 2 | 0 | 0 | 2 | 100 |
| 8 | UG01 | AGL-2108 | Diseases of Field & Horticultural Crops & their Management-I | AECC | 2 | 0 | 0 | 2 | 100 |
| 9 | UG01 | AGL-2109 | Human Values and Ethics\*\* (Non Gradial) | AECC | 1 | 0 | 0 | 1 | 100 |
| **Practical** |
| 10 | UG01 | AGP-2101 | Crop Production Technology-I Lab(*Kharif* Crops) | AECC | 0 | 0 | 2 | 1 | 100 |
| 11 | UG01 | AGP-2102 | Fundamental of Plant Breeding Lab | DCC | 0 | 0 | 2 | 1 | 100 |
| 12 | UG01 | AGP-2103 | Agricultural Finance and Cooperation Lab | DCC | 0 | 0 | 2 | 1 | 100 |
| 13 | UG01 | AGP-2104 | Farm Machinery and Power Lab | DCC | 0 | 0 | 2 | 1 | 100 |
| 14 | UG01 | AGP-2105 | Environmental Studies and Disaster Management Lab | DCC | 0 | 0 | 2 | 1 | 100 |
| 15 | UG01 | AGP-2107 | Fundamental of Entomology Lab | DCC | 0 | 0 | 2 | 1 | 100 |
| 16 | UG01 | AGP-2108 | Diseases of Field & Horticultural Crops & their Management-I Lab | AECC | 0 | 0 | 2 | 1 | 100 |
| 17 | UG01 | AGP-2110 | NSS/NCC/Physical Education & Yoga Practices (Non gradial) | GEC | 0 | 0 | 2 | 1 | 100 |
| **TOTAL** | 15 | 0 | 16 | 23 | 1700 |

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**SEMESTER IV**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Subject Code** | **Subject** | **Subject Area** | **Periods** | **Credit** | **Subject Total** |
| **Theory** | **L** | **T** | **P** |
| 1 | UG01 | AGL-2201  | Crop Production Technology –II *(Rabi Crops)*  | AECC | 1 | 0 | 0 | 1 | 100 |
| 2 | UG01 | AGL-2202 | Production Technology for Vegetables and Spices, Fruit and Plantation Crops  | AECC | 2 | 0 | 0 | 2 | 100 |
| 3 | UG01 | AGL-2203 | Production Technology for Ornamental Crops, MAP and Landscaping  | AECC | 1 | 0 | 0 | 1 | 100 |
| 4 | UG01 | AGL-2204 | Farm Management, Production & Resource Economics  | DCC | 1 | 0 | 0 | 1 | 100 |
| 5 | UG01 | AGL-2205 | Fundamental of Extention Education | DCC | 2 | 0 | 0 | 2 | 100 |
| 6 | UG01 | AGL-2206 | Intellectual Property Rights  | DCC | 1 | 0 | 0 | 1 | 100 |
| 7 | UG01 | AGL-2207 | Farming System and Sustainable Agriculture  | DCC | 1 | 0 | 0 | 1 | 100 |
| 8 | UG01 | AGL-2208 | Introduction to Forestry  | DCC | 1 | 0 | 0 | 1 | 100 |
| 9 | UG01 | AGL-2209 | Diseases of Field & Horticultural Crops & their Management-II  | AECC | 2 | 0 | 0 | 2 | 100 |
| 10 | UG01 |  | Departmental Elective Lecture Course-1 | DEC | 2 | 0 | 0 | 2 | 100 |
| **Practical** |
| 11 | UG01 | AGP-2201 | Crop Production Technology –II Lab*(Rabi Crops)*  | AECC | 0 | 0 | 2 | 1 | 100 |
| 12 | UG01 | AGP-2202 | Production Technology for Vegetables and Spices, Fruit and Plantation Crops Lab | AECC | 0 | 0 | 2 | 1 | 100 |
| 13 | UG01 | AGP-2203 | Production Technology for Ornamental Crops, MAP and Landscaping Lab | AECC | 0 | 0 | 2 | 1 | 100 |
| 14 | UG01 | AGP-2204 | Farm Management, Production & Resource Economics Lab | DCC | 0 | 0 | 2 | 1 | 100 |
| 15 | UG01 | AGP-2205 | Fundamental of Extention Education Lab | DCC | 0 | 0 | 2 | 1 | 100 |
| 16 | UG01 | AGP-2208 | Introduction to Forestry Lab | DCC | 0 | 0 | 2 | 1 | 100 |
| 17 | UG01 | AGP-2209 | Diseases of Field & Horticultural Crops & their Management-II Lab | AECC | 0 | 0 | 2 | 1 | 100 |
| 18 | UG01 |  | Departmental Elective Practical Course-1 | DEC | 0 | 0 | 2 | 1 |  100 |
| 19 | UG01 | AGP-2210 | NSS/NCC/Physical Education & Yoga Practices (Non gradial) | GEC | 0 | 0 | 2 | 1 | 100 |
| **TOTAL** | 14 | 0 | 18 | 23 | 1900 |

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| --- | --- |
| Departmental Elective Lecture Course-1 | Departmental Elective Practical Course-1 |
| **S. No.** | **Course Code** | **Course** | **Course Code** | **Course** |
| 1 | AGL-2212 | Agricultural Journalism | AGP-2212 | Agricultural Journalism Lab |
| 2 | AGL-2213 | Biopesticides & Bio-fertilizers | AGP-2213 | Biopesticides & Bio-fertilizers Lab |
| 3 | AGL-2214 | Commercial Plant Breeding | AGP-2214 | Commercial Plant Breeding Lab |

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**SEMESTER V**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Subject Code** | **Subject** | **Subject Area** | **Periods** | **Credit** | **Subject Total** |
| **Theory** | **L** | **T** | **P** |
| 1 | UG01 | AGL-3101  | Epidemiology & Principles of Integrated Disease Management | AECC | 1 | 0 | 0 | 1 | 100 |
| 2 | UG01 | AGL-3102 | Manures, Fertilizers and Soil Fertility Management  | AECC | 1 | 0 | 0 | 1 | 100 |
| 3 | UG01 | AGL-3103 | Pests of Crops and Stored Grain and their Management  | AECC | 1 | 0 | 0 | 1 | 100 |
| 4 | UG01 | AGL-3104 | Crop Improvement-I *(Kharif Crops)*  | AECC | 2 | 0 | 0 | 2 | 100 |
| 5 | UG01 | AGL-3105 | Entrepreneurship Development and Business Communication  | AECC | 1 | 0 | 0 | 1 | 100 |
| 6 | UG01 | AGL-3106 | Geo informatics and Nano-technology and Precision Farming  | AECC | 1 | 0 | 0 | 1 | 100 |
| 7 | UG01 | AGL-3107 | Livestock & Poultry Management | AECC | 3 | 0 | 0 | 3 | 100 |
| 8 | UG01 | AGL-3108 | Rainfed Agriculture & Watershed Management  | AECC | 1 | 0 | 0 | 1 | 100 |
| 9 | UG01 |  | Departmental Elective Lecture Course-2 |  DEC | 2 | 0 | 0 | 2 |  100 |
| **Practical** |
| 10 | UG01 | AGP-3101 | Epidemiology & Principles of Integrated Disease Management Lab | AECC | 0 | 0 | 2 | 1 | 100 |
| 11 | UG01 | AGP-3102 | Manures, Fertilizers and Soil Fertility Management Lab | AECC | 0 | 0 | 2 | 1 | 100 |
| 12 | UG01 | AGP-3103 | Pests of Crops and Stored Grain and their Management Lab | AECC | 0 | 0 | 2 | 1 | 100 |
| 13 | UG01 | AGP-3104 | Crop Improvement-I Lab *(Kharif Crops)*  | DCC | 0 | 0 | 2 | 1 | 100 |
| 14 | UG01 | AGP-3105 | Entrepreneurship Development and Business Communication Lab | DCC | 0 | 0 | 2 | 1 | 100 |
| 15 | UG01 | AGP-3106 | Geo informatics and Nano-technology and Precision Farming Lab | DCC | 0 | 0 | 2 | 1 | 100 |
| 16 | UG01 | AGP-3107 | Livestock & Poultry Management Lab | AECC | 0 | 0 | 2 | 1 | 100 |
| 17 | UG01 | AGP-3108 | Rainfed Agriculture & Watershed Management Lab | AECC | 0 | 0 | 2 | 1 | 100 |
| 18 | UG01 | AGP-3110 | Practical Crop Production – I Lab (*Kharif* crops) | AECC | 0 | 0 | 4 | 2 | 100 |
| 19 | UG01 |  | Departmental Elective Practical Course-2 |  DEC | 0 | 0 | 2 |  1 |  100 |
| **TOTAL** | 13 | 0 | 22 | 24 | 1900 |

|  |  |
| --- | --- |
| Departmental Elective Lecture Course-2 | Departmental Elective Practical Course-2 |
| **S. No.** | **Course Code** | **Course** | **Course Code** | **Course** |
| 1 | AGL-3112 | Agribusiness Management | AGP-3112 | Agribusiness Management Lab |
| 2 | AGL-3113 | Weed Management | AGP-3113 | Weed Management Lab |
| 3 | AGL-3114 | Landscaping | AGP-3114 | Landscaping Lab |

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**SEMESTER VI**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Subject Code** | **Subject** | **Subject Area** | **Periods** | **Credit** | **Subject Total** |
| **Theory** | **L** | **T** | **P** |
| 1 | UG01 | AGL-3201  | Agricultural Marketing Trade & Prices | DCC | 2 | 0 | 0 | 2 | 100 |
| 2 | UG01 | AGL-3202 | Principles of Organic Farming | DCC | 1 | 0 | 0 | 1 | 100 |
| 3 | UG01 | AGL-3203 | Renewable Energy and Green Technology  | DCC | 1 | 0 | 0 | 1 | 100 |
| 4 | UG01 | AGL-3204 | Protected Cultivation and Secondary Agriculture  | AECC | 1 | 0 | 0 | 1 | 100 |
| 5 | UG01 | AGL-3205 | Principles of Seed Technology  | DCC | 1 | 0 | 0 | 1 | 100 |
| 6 | UG01 | AGL-3206 | Post-harvest Management and Value Addition of Fruits and Vegetables  | AECC | 1 | 0 | 0 | 1 | 100 |
| 7 | UG01 | AGL-3207 | Management of Beneficial Insects  | AECC | 1 | 0 | 0 | 1 | 100 |
| 8 | UG01 | AGL-3208 | Crop Improvement-II *(Rabi crops)*  | DCC | 1 | 0 | 0 | 1 | 100 |
| 9 | UG01 | AGL-3209 | Principles of Food Science and Nutrition  | DCC | 2 | 0 | 0 | 2 | 100 |
| 10 | UG01 |  | Departmental Elective Lecture Course-3 | DEC | 2 | 0 | 0 | 2 | 100 |
| **Practical** |
| 11 | UG01 | AGP-3201 | Agricultural Marketing Trade & Prices Lab | DCC | 0 | 0 | 2 | 1 | 100 |
| 12 | UG01 | AGP-3202 | Principles of Organic Farming Lab | DCC | 0 | 0 | 2 | 1 | 100 |
| 13 | UG01 | AGP-3203 | Renewable Energy and Green Technology Lab | DCC | 0 | 0 | 2 | 1 | 100 |
| 14 | UG01 | AGP-3204 | Protected Cultivation and Secondary Agriculture Lab | AECC | 0 | 0 | 2 | 1 | 100 |
| 15 | UG01 | AGP-3205 | Principles of Seed Technology Lab | DCC | 0 | 0 | 2 | 1 | 100 |
| 16 | UG01 | AGP-3206 | Post-harvest Management and Value Addition of Fruits and Vegetables Lab | AECC | 0 | 0 | 2 | 1 | 100 |
| 17 | UG01 | AGP-3207 | Management of Beneficial Insects Lab | AECC | 0 | 0 | 2 | 1 | 100 |
| 18 | UG01 | AGP-3208 | Crop Improvement-II Lab *(Rabi crops)*  | DCC  | 0 | 0 | 2 | 1 | 100 |
| 19 | UG01 | AGP-3209 | Practical Crop Production Lab –II  (*Rabi* crops)  | AECC | 0 | 0 | 4 | 2 | 100 |
| 20 | UG01 | AGP-3210 | Educational Tour | AECC | 0 | 0 | 4 | 2 | 100 |
| 21 | UG01 |  | Departmental Elective Practical Course-3 | DEC | 0 | 0 | 2 | 1 | 100 |
| **TOTAL** | 13 | 0 | 26 | 26 | 2100 |

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| --- | --- |
| Departmental Elective Lecture Course-3 | Departmental Elective Practical Course-3 |
| **S. No.** | **Course Code** | **Course** | **Course Code** | **Course** |
| 1 | AGL-3212 | Hi-Tech Horticulture  | AGP-3212 | Hi-Tech Horticulture Lab |
| 2 | AGL-3213 | Micro propagation Technologies  | AGP-3213 | Micro propagation Technologies Lab |
| 3 | AGL-3214 | System Simulation and Agro-advisory  | AGP-3214 | System Simulation and Agro-advisory Lab |

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**SEMESTER VII**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Subject Code** | **Subject** | **Subject Area** | **Periods** | **Credit** | **Subject Total** |
| **Practical** | **L** | **T** | **P** |
|  |
| 1 | UG01 | AGT-4101 | Village attachment and *In-situ* interaction of farmers and students  | AECC | 0 | 0 | 8 | 8 | 100 |
| 2 | UG01 | AGT-4102 | Unit attachment in KVK/Research station | AECC | 0 | 0 | 5 | 5 | 100 |
| 3 | UG01 | AGT-4103 | Plant Clinic (ENTO+PPATH+HORT+AGRON+SSAC) | AECC | 0 | 0 | 2 | 2 | 100 |
| 4 | UG01 | AGT-4104 | Agro-Industrial Attachment | AECC | 0 | 0 | 3 | 3 | 100 |
| **TOTAL** | 0 | 0 | 20 | 20 | 400 |

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**SEMESTER VIII**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Subject Code** | **Subject** | **Subject Area** | **Periods** | **Credit** | **Subject Total** |
| **Practical** | **L** | **T** | **P** |
|  |
| 1 | UG01 |  | Departmental Elective Course-4 | DEC | 0 | 0 | 20 | 10 | 100 |
| 2 | UG01 |  | Departmental Elective Course-5 | DEC | 0 | 0 | 20 | 10 | 100 |
| **TOTAL** | 0 | 0 | 20 | 20 | 200 |

|  |
| --- |
| Departmental Elective Course-4 |
| **S. No.** | **Course Code** | **Course** |
| 1 | AGT-4201 | Production Technology for Bio-agents and Bio-fertilizer  |
| 2 | AGT-4202 | Seed Production and Technology  |
| 3 | AGT-4203 | Mushroom Cultivation Technology  |
| 4 | AGT-4204 | Soil, Plant, Water and Seed Testing  |
| 5 | AGT-4205 | Commercial Beekeeping  |
| 6 | AGT-4206 | Poultry Production Technology  |
| Departmental Elective Course-5 |
| 7 | AGT-4207 | Commercial Horticulture  |
| 8 | AGT-4208 | Floriculture and Landscaping  |
| 9 | AGT-4209 | Food Processing  |
| 10 | AGT-4210 | Agriculture Waste Management  |
| 11 | AGT-4211 | Organic Production Technology  |
| 12 | AGT-4212 | Commercial Sericulture  |

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