<u>Course Structure of B.Sc. (Hons.) Agriculture as per ICAR 5th Dean Committee Recommendation</u>

ACADEMIC PROGRAMME Semester wise course and credits Allocation

| First Year I Semester | S. No. | Course Title | Credit Hours | Total credit hours | | | |
|---|-----------|---|-----------------------|--------------------------|--|--|--|
| Fundamentals of Plant Biochemistry and Biotechnology 3(2+1) | | First Year | | nours | | | |
| 2 | | I Semester | | | | | |
| Comprehension and Communication Skills in English 2(1+1) | 1 | Fundamentals of Plant Biochemistry and Biotechnology | 3(2+1) | | | | |
| 4 Agricultural Heritage ^R 1(1+0) R 5 Rural Sociology and Educational Psychology 2(2+0) 6 Fundamentals of Agronomy 4(3+1) 7 Fundamentals of Soil Science 3(2+1) 8 Fundamentals of Horticulture 2(1+1) 9 Human Values and Ethics ^{NG} 1(1+0) ^{NG} 10 NSS/NCC/Physical Education and Yoga Practices ^{NG} 2(0+2) ^{NG} 11 Introductory Mathematics ^R / Introductory Biology ^R 2(2+0) R/ 2(1+1) R 1 Fundamentals of Genetics 3(2+1) 2 Agricultural Microbiology 2(1+1) 3 Soil and Water Conservation Engineering 2(1+1) 4 Fundamentals of Crop Physiology 2(1+1) 5 Fundamentals of Agricultural Economics 2(2+0) 6 Fundamentals of Agricultural Extension Education 3(2+1) 8 Fundamentals of Plant Pathology 4(3+1) 9 Communication Skills and Personality Development 2(1+1) 10 Educational Tour - I ^{NG} 1(0+1) ^{NG} Second Year 11 (0+1) ^{NG} < | 2 | Introduction to Forestry | 2(1+1) | | | | |
| 5 Rural Sociology and Educational Psychology 2(2+0) 6 Fundamentals of Agronomy 4(3+1) 7 Fundamentals of Soil Science 3(2+1) 8 Fundamentals of Horticulture 2(1+1) 9 Human Values and Ethics ^{NG} 1(1+0) ^{NG} 10 NSS/NCC/Physical Education and Yoga Practices ^{NG} 2(0+2) ^{NG} 11 Introductory Mathematics ^R / Introductory Biology ^R 2(2+0) ^R / ₂ (1+1) ^R 1 Fundamentals of Genetics 3(2+1) 2 Agricultural Microbiology 2(1+1) 3 Soil and Water Conservation Engineering 2(1+1) 4 Fundamentals of Crop Physiology 2(1+1) 5 Fundamentals of Agricultural Economics 2(2+0) 6 Fundamentals of Agricultural Extension Education 3(2+1) 8 Fundamentals of Plant Pathology 4(3+1) 9 Communication Skills and Personality Development 2(1+1) 10 Educational Tour - I ^{NG} 1(0+1) ^{NG} Second Year III Semester 1 Crop Production Technology | 3 | Comprehension and Communication Skills in English | 2(1+1) | | | | |
| 18 (12+6) | 4 | Agricultural Heritage ^R | 1(1+0) R | | | | |
| Fundamentals of Soil Science 3(2+1) | 5 | Rural Sociology and Educational Psychology | 2(2+0) | | | | |
| Fundamentals of Horticulture Human Values and Ethics NG NSS/NCC/Physical Education and Yoga Practices NG Introductory Mathematics NG Introductory Mathematics NG Introductory Mathematics NG II Semester I Fundamentals of Genetics Agricultural Microbiology Soil and Water Conservation Engineering Fundamentals of Crop Physiology Fundamentals of Agricultural Economics Fundamentals of Agricultural Economics Fundamentals of Agricultural Extension Education Fundamentals of Plant Pathology Communication Skills and Personality Development Educational Tour - ING Second Year III Semester Crop Production Technology – I (Kharif Crops) Agricultural Finance and Cooperation Agricultural Finance and Cooperation Agricultural Finance and Cooperation Agricultural Finance and Cooperation 2(1+1) 23(14+9) 23(14+9) | 6 | Fundamentals of Agronomy | 4(3+1) | | | | |
| Human Values and Ethics 1 (1+0) NSS/NCC/Physical Education and Yoga Practices 2 (0+2) NG | 7 | Fundamentals of Soil Science | 3(2+1) | $+3^{NG}+3^{R}$ | | | |
| 10 NSS/NCC/Physical Education and Yoga Practices NG 2(0+2)NG 2(2+0) R/ 2(1+1) R 11 Introductory Mathematics R/ Introductory Biology R 2(2+0) R/ 2(1+1) R 12 | 8 | Fundamentals of Horticulture | | | | | |
| 10 NSS/NCC/Physical Education and Yoga Practices NG 2(0+2)NG 2(2+0) R/ 2(1+1) R 11 Introductory Mathematics R/ Introductory Biology R 2(2+0) R/ 2(1+1) R 12 | 9 | Human Values and Ethics ^{NG} | 1(1+0) ^{NG} | | | | |
| Semester 1 Fundamentals of Genetics 3(2+1) 2 Agricultural Microbiology 2(1+1) 3 Soil and Water Conservation Engineering 2(1+1) 4 Fundamentals of Crop Physiology 2(1+1) 5 Fundamentals of Agricultural Economics 2(2+0) 6 Fundamentals of Entomology 4(3+1) 7 Fundamentals of Agricultural Extension Education 3(2+1) 8 Fundamentals of Agricultural Extension Education 3(2+1) 9 Communication Skills and Personality Development 2(1+1) 10 Educational Tour - I ^{NG} 1(0+1) ^{NG} Second Year III Semester 1 Crop Production Technology - I (Kharif Crops) 2 (1+1) 2 Fundamentals of Plant Breeding 3 (2+1) 3 Agricultural Finance and Cooperation 3 (2+1) 4 Agri-Informatics 2(1+1) | 10 | NSS/NCC/Physical Education and Yoga Practices ^{NG} | | | | | |
| Fundamentals of Genetics 3(2+1) Agricultural Microbiology 2(1+1) Soil and Water Conservation Engineering 2(1+1) Fundamentals of Crop Physiology 2(1+1) Fundamentals of Agricultural Economics 2(2+0) Fundamentals of Entomology 4(3+1) Fundamentals of Agricultural Extension Education 3(2+1) Fundamentals of Plant Pathology 4(3+1) Fundamentals of Plant Pathology 4(3+1) Communication Skills and Personality Development 2(1+1) Educational Tour - I ^{NG} 1(0+1) ^{NG} Second Year III Semester Crop Production Technology – I (Kharif Crops) 2 (1+1) Fundamentals of Plant Breeding 3 (2+1) Agricultural Finance and Cooperation 3 (2+1) Agri-Informatics 2(1+1) | 11 | Introductory Mathematics ^R / Introductory Biology ^R | | | | | |
| 1 Fundamentals of Genetics 2 Agricultural Microbiology 3 Soil and Water Conservation Engineering 4 Fundamentals of Crop Physiology 5 Fundamentals of Agricultural Economics 6 Fundamentals of Entomology 7 Fundamentals of Agricultural Extension Education 8 Fundamentals of Agricultural Extension Education 9 Communication Skills and Personality Development 10 Educational Tour - I ^{NG} 10 Educational Tour - I ^{NG} 11 Semester 1 Crop Production Technology – I (Kharif Crops) 2 (1+1) 2 Fundamentals of Plant Breeding 3 (2+1) 3 Agricultural Finance and Cooperation 4 Agri-Informatics 2 (1+1) 2 23(14+9) 2 24 (16+8) 2 (16+8) | | | $2(1+1)^{\mathbf{R}}$ | | | | |
| Agricultural Microbiology Agricultural Microbiology Soil and Water Conservation Engineering Fundamentals of Crop Physiology Fundamentals of Agricultural Economics Fundamentals of Entomology Fundamentals of Entomology Fundamentals of Agricultural Extension Education Fundamentals of Plant Pathology Communication Skills and Personality Development Educational Tour - I ^{NG} Second Year III Semester Crop Production Technology – I (Kharif Crops) Fundamentals of Plant Breeding Agricultural Finance and Cooperation Agricultural Finance and Cooperation Agri-Informatics 2(1+1) 2(1+1) 22(1+1) 23(14+9) | | | 1 | | | | |
| 3 Soil and Water Conservation Engineering 4 Fundamentals of Crop Physiology 5 Fundamentals of Agricultural Economics 6 Fundamentals of Entomology 7 Fundamentals of Agricultural Extension Education 8 Fundamentals of Plant Pathology 9 Communication Skills and Personality Development 10 Educational Tour - I ^{NG} 11 Semester 1 Crop Production Technology – I (Kharif Crops) 2 (1+1) 2 Fundamentals of Plant Breeding 3 (2+1) 3 Agricultural Finance and Cooperation 4 (3+1) 2 23(14+9) 4 Agri-Informatics | | | _ | | | | |
| Fundamentals of Crop Physiology Fundamentals of Agricultural Economics Fundamentals of Entomology Fundamentals of Entomology Fundamentals of Agricultural Extension Education Fundamentals of Plant Pathology Communication Skills and Personality Development Educational Tour - I ^{NG} Second Year III Semester Crop Production Technology – I (Kharif Crops) Fundamentals of Plant Breeding Agricultural Finance and Cooperation Agri-Informatics 2(1+1) 24 (16+8) 24 (16+8) 24 (16+8) 24 (16+8) | | | | | | | |
| 5 Fundamentals of Agricultural Economics 6 Fundamentals of Entomology 7 Fundamentals of Agricultural Extension Education 8 Fundamentals of Plant Pathology 9 Communication Skills and Personality Development 10 Educational Tour - I ^{NG} 10+1) ^{NG} Second Year III Semester 1 Crop Production Technology – I (Kharif Crops) 2 (1+1) 2 Fundamentals of Plant Breeding 3 (2+1) 3 Agricultural Finance and Cooperation 4 Agri-Informatics 2(1+1) 22(14+9) 23(14+9) | | | | | | | |
| 6 Fundamentals of Entomology 7 Fundamentals of Agricultural Extension Education 8 Fundamentals of Plant Pathology 9 Communication Skills and Personality Development 10 Educational Tour - I ^{NG} 10 Educational Tour - I ^{NG} 11 Semester 1 Crop Production Technology – I (Kharif Crops) 2 (1+1) 2 Fundamentals of Plant Breeding 3 (2+1) 3 Agricultural Finance and Cooperation 4 Agri-Informatics 24 (16+8) 4 (3+1) 2 (1+1) 2 (1+1) 2 Fundamentals of Plant Breeding 3 (2+1) 3 Agricultural Finance and Cooperation 4 Agri-Informatics 2 (1+1) | | | ` ′ | | | | |
| Fundamentals of Entomology Fundamentals of Agricultural Extension Education Fundamentals of Agricultural Extension Education Fundamentals of Plant Pathology Communication Skills and Personality Development Educational Tour - I ^{NG} Second Year III Semester Crop Production Technology – I (Kharif Crops) Fundamentals of Plant Breeding Agricultural Finance and Cooperation Agricultural Finance and Cooperation Agri-Informatics 4(3+1) 3(2+1) 2(1+1) 23(14+9) | | 7 | | 24 (16+8) | | | |
| Fundamentals of Plant Pathology Communication Skills and Personality Development Educational Tour - I ^{NG} Second Year III Semester Crop Production Technology – I (Kharif Crops) Fundamentals of Plant Breeding Agricultural Finance and Cooperation Agri-Informatics 4 (3+1) 2 (1+1) 2 (1+1) 3 (2+1) 2 3 (2+1) 2 3 (14+9) | | = - | | 21 (1010) | | | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 7 | | | | | | |
| Educational Tour - I ^{NG} 1(0+1) ^{NG} Second Year III Semester 1 Crop Production Technology – I (Kharif Crops) 2 (1+1) 2 Fundamentals of Plant Breeding 3 (2+1) 3 Agricultural Finance and Cooperation 3 (2+1) 4 Agri-Informatics 2(1+1) | | | | | | | |
| Second Year III Semester 1 Crop Production Technology – I (Kharif Crops) 2 (1+1) 2 Fundamentals of Plant Breeding 3 (2+1) 3 Agricultural Finance and Cooperation 3 (2+1) 4 Agri-Informatics 2(1+1) | 9 | | | | | | |
| III Semester1Crop Production Technology – I (Kharif Crops)2 (1+1)2Fundamentals of Plant Breeding3 (2+1)3Agricultural Finance and Cooperation3 (2+1)4Agri-Informatics2(1+1) | 10 | | 1(0+1) ^{NG} | | | | |
| 1Crop Production Technology – I (Kharif Crops)2 (1+1)2Fundamentals of Plant Breeding3 (2+1)3Agricultural Finance and Cooperation3 (2+1)4Agri-Informatics2(1+1) | | Second Year | | | | | |
| 2Fundamentals of Plant Breeding3 (2+1)3Agricultural Finance and Cooperation3 (2+1)4Agri-Informatics2(1+1) | | · | | | | | |
| 3 Agricultural Finance and Cooperation 3 (2+1) 4 Agri-Informatics 2(1+1) | | | 2 (1+1) | | | | |
| 4 Agri-Informatics 2(1+1) | | Fundamentals of Plant Breeding | 3 (2+1) | | | | |
| | 3 | Agricultural Finance and Cooperation | 3 (2+1) | 23(14+9) | | | |
| 5 Farm Machinery and Power 2 (1+1) | 4 | Agri-Informatics | 2(1+1) | | | | |
| | 5 | Farm Machinery and Power | 2 (1+1) | | | | |



| 6 | Production Technology for Vegetables and Spices | 2 (1+1) | | | |
|-----|---|----------------------|-----------------------------------|--|--|
| 7 | Environmental Studies and Disaster Management | 3(2+1) | | | |
| 8 | Statistical Methods | 2(1+1) | | | |
| 9 | Livestock and Poultry Management | 4 (3+1) | | | |
| | IV Semester | | | | |
| 1 | Crop Production Technology –II (Rabi Crops) | 2(1+1) | | | |
| 2 | Production Technology for Ornamental Crops, MAP and Landscaping | 2(1+1) | | | |
| 3 | Renewable Energy and Green Technology | 2(1+1) | | | |
| 4 | Problematic Soils and Their Management | 2(2+0) | | | |
| 5 | Production Technology for Fruit and Plantation Crops | 2(1+1) | 19 (11+8) | | |
| 6 | Principles of Seed Technology | 3(1+2) | +1 ^{NG} + 3 [#] | | |
| 7 | Farming System & Sustainable Agriculture | 1(1+0) | | | |
| 8 | Agricultural Marketing Trade & Prices | 3(2+1) | | | |
| 9 | Introductory Agro-meteorology & Climate Change | 2(1+1) | | | |
| 10 | Elective Course# | 3(2+1) | | | |
| 11 | Educational Tour – II ^{NG} | 1(0+1) ^{NG} | | | |
| | Third Year | | | | |
| | V Semester | | | | |
| 1 | Principles of Integrated Pest and Disease Management | 3(2+1) | | | |
| 2 | Manures, Fertilizers and Soil Fertility Management | 3 (2+1) | | | |
| 3 | Pests of Crops and Stored Grain and their Management | 3 (2+1) | | | |
| 4 | Diseases of Field and Horticultural Crops and their Management –I | 3 (2+1) | | | |
| 5 | Crop Improvement-I (Kharif Crops) | 2 (1+1) | 21 (12+9) + | | |
| 6 | Entrepreneurship Development and Business Communication | 2 (1+1) | 3# | | |
| 7 | Geoinformatics and Nano-technology and Precision Farming | 2 (1+1) | | | |
| 8 | Practical Crop Production – I (Kharif crops) | 2 (0+2) | | | |
| 9 | Intellectual Property Rights | 1(1+0) | | | |
| 10 | Elective Course# | 3(2+1) | | | |
| | VI Semester | | | | |
| 1 | Rainfed Agriculture & Watershed Management | 2(1+1) | | | |
| 2 | Protected Cultivation and Secondary Agriculture | 2(1+1) | | | |
| 3 | Diseases of Field and Horticultural Crops and their Management-II | 3(2+1) | 21(11+10) + 3# | | |
| 4 | Post-harvest Management and Value Addition of Fruits and Vegetables | 2(1+1) | + 3" | | |
| 5 | Management of Beneficial Insects | 2(1+1) |] | | |
| •—— | • | • | | | |

| 6 | Crop Improvement-II (Rabi crops) | 2(1+1) | |
|----|--|----------|------------------|
| 7 | Practical Crop Production –II (Rabi crops) | 2(0+2) | |
| 8 | Principles of Organic Farming | 2(1+1) | |
| 9 | Farm Management, Production & Resource Economics | 2(1+1) | |
| 10 | Principles of Food Science and Nutrition | 2(2+0) | |
| 11 | Elective Course# | 3(2+1) | |
| | Fourth Year | | |
| | VII Semester | | |
| 1 | Student READY: Rural Awareness Work Experience | 20(0+20) | 20 |
| | (RAWE) and Agro-Industrial Attachment (AIA) | | 20 |
| | VIII Semester | | |
| 1 | Student READY: Experiential Learning Program | 10(0+10) | |
| | Module – I* | | 20 |
| 2 | Student READY: Experiential Learning Program | 10(0+10) | 20 |
| | Module – II* | | |
| | | Grand | 166 |
| | | Total | $+12^{\#}+3^{R}$ |

R = Remedial; NG = Non-Gradial; # = Elective Course; * = ELP Course

*List of Elective Courses (One each in 4th, 5th & 6th Semester)

| 1 | Agribusiness Management | 3(2+1) |
|----|-----------------------------------|--------|
| 2 | Agrochemicals | 3(2+1) |
| 3 | Agricultural Journalism | 3(2+1) |
| 4 | Landscaping | 3(2+1) |
| 5 | Commercial Plant Breeding | 3(2+1) |
| 6 | Food Safety and Standards | 3(2+1) |
| 7 | Biopesticides & Biofertilizers | 3(2+1) |
| 8 | System Simulation & Agro-Advisory | 3(2+1) |
| 9 | Hi Tech Horticulture | 3(2+1) |
| 10 | Protected Cultivation | 3(2+1) |
| 11 | Micro-propagation Techniques | 3(2+1) |
| 12 | Weed Management | 3(2+1) |

*List of Experiential Learning Modules

| 1 | Mushroom Cultivation Technology | 10(0+10) |
|---|-------------------------------------|----------|
| 2 | Commercial Beekeeping | 10(0+10) |
| 3 | Soil, Plant, Water and Seed Testing | 10(0+10) |
| 4 | Floriculture and Landscaping | 10(0+10) |





| 5 | Poultry Production Technology | 10(0+10) |
|----|---|----------|
| 6 | Commercial Horticulture | 10(0+10) |
| 7 | Organic Production Technology | 10(0+10) |
| 8 | Seed Production and Technology | 10(0+10) |
| 9 | Production Technology for Bioagents & Biofertilizer | 10(0+10) |
| 10 | Agricultural Waste Management | 10(0+10) |
| 11 | Commercial Sericulture | 10(0+10) |
| 12 | Food Processing | 10(0+10) |



School of Agricultural Sciences

Master of Business Administration (Agribusiness Management)/MBA (ABM)

SCHEME OF THE PROGRAM: MBA (ABM)

| | First Semester | | | | |
|----------------|---|-------------|-------------------------------|--|--|
| Course Code | Course Title | Credi ts | Nature | | |
| ABM 501 | Principles of management and organization behaviour | 3 | Major Course | | |
| ABM 502 | Managerial Accounting and Control | 3 | Major Course | | |
| ABM 503 | Applied Agribusiness Economics | 2 | Major Course | | |
| ABM 505 | Production and operations management | 2 | Major Course | | |
| ABM 506 | Agricultural and Food Marketing Management- I | 2 | Major Course | | |
| ABM 536 | Strategic Management for Agri Business Enterprises | 2 | Supporting Course | | |
| ABM 537 | Operations research | 2 | Supporting Course | | |
| PGS-501* | Library and Information Services | 1 | Non- Gradial Common Course | | |
| PGS-502* | Technical Writing and Communications Skills | 1 | Non- Gradial Common Course | | |
| | Total Credit | 16+2 * | *NC: Non-gradial courses | | |

| | | Second Semester | | | | |
|-----------|----------------|--|---------|---|--|--|
| S. No. | Course Code | Course Title | Credits | Nature | | |
| 1 | ABM 504 | Human Resource Management for Agricultural Organizations | 2 | Major Course | | |
| 2 | ABM 507 | Agricultural and Food Marketing Management- II | 2 | Major Course | | |
| 3 | ABM 508 | Agri Supply Chain Management | 2 | Major Course | | |
| 4 | ABM 509 | International Trade for Agricultural Products | 2 | Major Course | | |
| 5 | ABM- 539 | Communication for Management and Business | 3 | Mandatory Courses for Summer Internship | | |
| 6 | ABM- 540 | Research Methodology for Agri Business Management | 3 | Mandatory Course for Summer Internship | | |
| 7 | ABM 538 | Financial Management in Agri Business | 2 | Supporting Course | | |
| 8 | PGS- 503* | Intellectual Property and its Management in Agriculture | 1 | Non- Gradial Common Course | | |
| 9 | PGS- 504* | Basic Concepts in Laboratory Techniques | 1 | Non- Gradial Common Course | | |



| 10 | ABM 591 | Master's seminar | 1 | Master Seminar |
|-----------|----------------|---|---------|--|
| | | Total Credits | 17+2* | *NC: Non-gradial courses |
| | | Summer Term | | |
| | ABM- 595 | Summer Internship | 4 | Summer Internship / Industrial Attachment (04 to 06 Weeks), after Second Semester during the month of June & July. |
| | | Third Semester | | |
| S. No. | Course Code | Course Title | Credits | Nature |
| 1 | ABM- 541 | Computer Applications for Agri Business | 3 | Mandatory Course for Research Project |
| 2 | ABM 542 | Project Management and Agri Business Entrepreneurship | 3 | Mandatory Course for Research Project |
| 3 | ABM 543 | Agribusiness Environment and Policy | 2 | Mandatory Course for Research Project |
| 4 | ABM 544 | Agri Business Laws and Ethics | 2 | Mandatory Course for Research Project |
| 5 | PGS- 505* | Agricultural Research, Research Ethics and Rural Development Programmes | 1 | Non- Gradial Common Course |
| 6 | | Elective-1 | 2 | Elective |
| 7 | | Elective-2 | 2 | Elective |
| 8 | | Elective-3 | 2 | Elective |
| 9 | | Elective-4 | 2 | Elective |
| 10 | | Total Elective/Minor Courses | 8 | Minor/Elective |
| | | Total Credits | 18+1* | *NC: Non-gradial courses |

| | Fourth Semester | | |
|-------------|-----------------|---------|------------------|
| Course Code | Course Name | Credits | Nature |
| ABM 599 | Project Work | 10 | Research Project |

| | Basket of Elective Courses | | | | |
|----------------|---|-------------|-----------------------|--|--|
| Course Code | Course Name | Credit s | Nature | | |
| ABM 510 | Food Technology and Processing Management | 3 | Elective Minor course | | |
| ABM 511 | Rural Marketing | 3 | Elective Minor course | | |
| ABM 512 | Fertiliser Technology and Management | 3 | Elective Minor course | | |

| | | 1 | 1 |
|---|---|------------|----------------|
| ABM 513 | Management of Agro-Chemical Industry | 3 | Elective Minor |
| | | | course |
| ABM 514 | Seed Production Technology Management | 3 | Elective Minor |
| | 5, 0 | | course |
| ABM 515 | Technology Management for Livestock Products | 3 | Elective Minor |
| | | | course |
| ABM 516 | Fruit Production & Post Harvest Management | 3 | Elective Minor |
| | | | course |
| ABM 517 | Farm Power & Machinery Management | 2 | Elective Minor |
| | , , | | course |
| ABM 518 | Food Retail Management | 2 | Elective Minor |
| 11211010 | 1 ook 1 ook 1 ook 1 | | course |
| ABM 519 | Management of Agricultural Input Marketing | 2 | Elective Minor |
| 11511019 | Transgement of rigiteureur at impact transceing | _ | course |
| ABM 520 | Feed Business Management | 2 | Elective Minor |
| 71011 320 | Teed Business Management | | course |
| ABM 521 | Management of Veterinary Hospitals | 2 | Elective Minor |
| ADM 321 | Wanagement of Vetermary Hospitals | | course |
| ABM 522 | Doultry And Hatchery Management | 2 | Elective Minor |
| ADM 322 | Poultry And Hatchery Management | | course |
| ABM 523 | Management Of Floriculture And Landscaping | 2 | Elective Minor |
| ADM 525 | | | course |
| ADM E24 | Risk Management In Agri Business | 2 | Elective Minor |
| ABM 524 | | | course |
| ADMESE | Management Of Agri-Business Co-Operatives | 2 | Elective Minor |
| ABM 525 | | 2 | course |
| ADM 526 | Design and Association for Association | 2 | Elective Minor |
| ABM 526 | Business Analytics for Agriculture | 2 | course |
| ADM 527 | D.'. D'. M | 1 | Elective Minor |
| ABM 527 | Dairy Business Management | 1 | course |
| ADMESO | A . F M | 4 | Elective Minor |
| ABM 528 | Agri Extension Management | 1 | course |
| ADM 500 | D 11 D 0 W | 1 | Elective Minor |
| ABM 529 | Renewable Energy Sources Management | 1 | course |
| 4514500 | | | Elective Minor |
| ABM 530 | Quality Management for Agri Business | 1 | course |
| 1514 504 | A1 A 1D | | Elective Minor |
| ABM 531 | Advertising And Brand Management | 1 | course |
| | Agri Infrastructure and Warehousing | | Elective Minor |
| ABM 532 | Management | 1 | course |
| 101/200 | | | Elective Minor |
| ABM 533 | Contract Farming | 1 | course |
| 1011701 | Human Resource Competence And | | Elective Minor |
| ABM 534 | CapacityBuilding Systems | 1 | course |
| | | | Elective Minor |
| ABM 535 | Agri Commodity Markets And Futures Trading | 1 | course |
| Requireme | nt: students have to ont minimum & credits from abo | we given a | |
| Requirement : students have to opt minimum 8 credits from above given elective courses | | | |



Program Structure of M.Sc. Agriculture

| SEMESTER I | | | SEMESTER II | | |
|-------------------|----------------------------------|---------|--------------|--------------------------------|---------|
| Subject Code | Subject | Credits | Subject Code | Subject | Credits |
| AGRON501 | Modern Concepts in Crop | 3 | AGRON502 | Principles and Practices of | |
| | Production | 3 | | Water Management | 3 |
| AGRON503 | Agronomy of Oilseed, Fibre and | 3 | AGRON504 | Agronomy of Fodder and | |
| | Sugar Crops | 3 | | Forage Crops | 3 |
| AGRON505 | Cropping Systems and Organic | | AGRON506 | Principles and Practices of | |
| | Farming | 3 | | Weed Management | 3 |
| A CDONEO7 | Agronomy of Major Cereals and | | GT 4 T 502 | Statistics Methods for Applied | |
| AGRON507 | Pulses | 3 | STAT 502 | Sciences (Supporting I) | 4 |
| PGS 501 | Library and Information Services | 1 | | Minor-II | 3 |
| DCG 502 | Intellectual Property and its | | PGS 502 | Technical Writing and | |
| PGS 503 | management in agriculture | 1 | | Communications Skills | 1 |
| | | | PGS 504 | Basic concepts in laboratory | |
| Minor-I | Minor-I | 3 | | techniques | 1 |
| AGRON599 | Master's Research | 5 | AGRON599 | Master's Research | 5 |
| | TOTAL | 22 | | TOTAL | 23 |
| SEMESTER III | | | SEMESTER IV | | |
| Subject Code | Subject | Credits | Subject Code | Subject | Credits |
| | Agricultural research, research | 1 | AGRON 599 | | |
| PGS 505 | ethics and rural development | | | Master's Research | |
| | programmes | | | | 10 |
| AGRON591 | Seminar | 1 | | | |
| AGRON599 | Master's Research | 10 | | | |
| | Minor-III | 3 | | | |
| | Supporting-II | 2 | | | |
| | TOTAL | 17 | | TOTAL | 1 |
| Cuand Tatal for I | M.Sc. Agriculture | | | | 7 |

M.Tech ENVIRONMENTAL ENGINEERING with sp. in ESG & Sustainability Program Structure

| SEMESTER I | | | SEMESTER II | | |
|--------------|--------------------------------|---------|------------------|-------------------------------|---------|
| Subject Code | Subject | Credits | Subject Code | Subject | Credits |
| | Air Pollution Science and | | | Solid and hazardous waste | |
| APS 1701 | Engineering | 3 | SHW 1702 | management | 3 |
| | | | | Environmental impact | |
| WWT 1701 | Water and wastewater treatment | 3 | EIA 1702 | assessment | 3 |
| | | | | Environmental sampling and | |
| ELP 1701 | Environmental law & policy | 3 | ESA 1702 | analysis | 3 |
| FOS1701 | Fundamentals of Sustainability | 3 | COE1702 | Concept of ESG | 3 |
| | Sustainable Development & | | | Advances in sustainability | |
| SDC 1701 | circular economy | 3 | ASC1702 | Science & Engineering | 3 |
| | | | EEL 1702 | Environmental Engineering lab | 1 |
| | TOTAL | 15 | | TOTAL | 16 |
| SEMESTER III | | | SEMESTER IV | | |
| Subject Code | Subject | Credits | Subject Code | Subject | Credits |
| SIP 1703 | Summer Internship | 2 | RPJ 1704 | Research Project II | 12 |
| SSI 1703 | Seminar on summer Internship | 1 | | | |
| RPJ1703 | Research Project I | 8 | | | |
| | TOTAL | 11 | | TOTAL | 12 |
| Grand To | otal for M.Tech ENVIRONMENTAL | ENGINE | RING with sp. ir | ESG & Sustainability | 54 |

M.Tech Health, Safety and Environment Program Structure

| MESTER I | | | SEMESTER II | | |
|---|--|-----------------------|--------------|------------------------------|---------|
| oject Code | Subject | Credits | Subject Code | Subject | Credit |
| | Environmental Engineering & | | | | |
| EEM1701 | Management | 3 | TQM1702 | TPM and TQM | 3 |
| FRC1701 | Fire Risk and Control | 3 | SRR1702 | Statutory Rules & Regulation | 3 |
| | Occupational Health & Safety | | | | |
| OHS1701 | Management | 3 | SID 1702 | Safety in Drilling | 3 |
| | Behavioural Based Safety | | | Advances in Sustainable | |
| BBS1701 | Management | 3 | ASD 1702 | Development | 3 |
| ESE 1701 | Electrical Safety Engineering | 3 | SIC 1702 | Safety in Construction | 3 |
| | | | | Hazard Identification, Risk | |
| $EEL\ 1501$ | Environment Engineering Lab | 1 | HRM 1702 | Analysis and Management | 3 |
| | | | SEL 1502 | Safety Engineering Lab | 1 |
| | | İ | SMR 1702 | Seminar I | 1 |
| | TOTAL | 16 | | TOTAL | 20 |
| MESTER III | | | SEMESTER IV | | |
| ject Code | Subject | Credits | Subject Code | Subject | Credits |
| ESG 1703 | ESG and Sustainability | 3 | RPJ1704 | Research Project II | 16 |
| | | | _ | | + |
| | Concepts of Fire Safety in | | | | |
| | Concepts of Fire Safety in buildings, structures & | | | | |
| CFS 1703 | - | 3 | | | |
| CFS 1703 | buildings, structures & | 3 | | | |
| CFS 1703 GDS 1703 | buildings, structures & Installations | 3 | | | |
| | buildings, structures & Installations Global Disaster Scenario and | 3 | | | |
| | buildings, structures & Installations Global Disaster Scenario and Types of Natural Disaster | 3 | | | |
| GDS 1703 | buildings, structures & Installations Global Disaster Scenario and Types of Natural Disaster Safety in Industrial Operations & | 3 | | | |
| GDS 1703 SID 1703 | buildings, structures & Installations Global Disaster Scenario and Types of Natural Disaster Safety in Industrial Operations & Design | 3 | | | |
| GDS 1703 SID 1703 SEI 1703 | buildings, structures & | 3 3 | | | |
| GDS 1703 SID 1703 SEI 1703 SIS 1703 | buildings, structures & Installations Global Disaster Scenario and Types of Natural Disaster Safety in Industrial Operations & Design Safety in Engineering Industry Summer Internship | 3 3 2 | | | |
| GDS 1703 SID 1703 SEI 1703 SIS 1703 SSI 1703 | buildings, structures & Installations Global Disaster Scenario and Types of Natural Disaster Safety in Industrial Operations & Design Safety in Engineering Industry Summer Internship Seminar on summer Internship | 3 3 3 2 | | | |
| GDS 1703 SID 1703 SEI 1703 SIS 1703 SSI 1703 RP 1703 | buildings, structures & Installations Global Disaster Scenario and Types of Natural Disaster Safety in Industrial Operations & Design Safety in Engineering Industry Summer Internship Seminar on summer Internship Research Project I | 3 3 2 1 2 | | | |
| GDS 1703 SID 1703 SEI 1703 SIS 1703 SSI 1703 RP 1703 | buildings, structures & Installations Global Disaster Scenario and Types of Natural Disaster Safety in Industrial Operations & Design Safety in Engineering Industry Summer Internship Seminar on summer Internship Research Project I | 3 3 2 1 2 | | | |

MBA ESG & Sustainibility Management Program Structure

| Code | Paper Title | Total Credits |
|--------------|---|---|
| GMT 7703 | Principles of Management and Organisational Behaviour | 3 |
| ECO 7748 | Managerial Economics | 3 |
| FIN 7701 | Accounting and Financial https://drive.google.com/fi Analysis | le/d/17D8R_6zewS3SJJCzัฎKHWOxNU4MHty0Md/view?usp=dr |
| MKT 7701 | Marketing Management | 3 |
| DSC 7701 | Statistical and Quantitative Methods | 3 |
| ITM 7701 | Management Information System | 3 |
| IBS 7702 | Business in Globalized Markets | 3 |
| GMT 7001 | Mangerial Communication | 3 |
| Total Credit | | 24 |
| MBA SEM II | | |
| Code | Paper Title | Total Credits |
| HRM 7701 | Human Resource Management | 3 |
| SMT 7701 | Business Policy and Corporate Strategy | 3 |
| DSC 7002 | Research Methodology | 3 |
| FIN 7702 | Financial Management and Planning | 3 |
| OPM 7701 | Operations Management | 3 |
| ECO 7749 | Macroeconomics: Theory and Policy | 3 |
| GMT 8503 | Campus to Corporate | 1 |
| ENP 7701 | Introduction to Entrepreneurship | 3 |
| GMT 7503 | Community Service | 2 |
| | Environment and Disaster Management | 2 |
| ENV 8701 | ivianagement | |



| Code | Paper Title | Total Credits |
|--|--|---------------|
| FOS1701 | Fundamentals of Sustainability | 3 |
| SDC 1701 | Sustainable Development & circular economy | 3 |
| ESG 1703 | ESG and Sustainability 3 | |
| ELP 1701 | Environmental law & policy | 3 |
| WWT1701 Water and wastewater treatment | | 3 |
| APS 1701 Air Pollution Science and Engineering | | 3 |
| GMT 8501 | Summer Internship | 6 |
| Core Credits | | 24 |

| MBA SEM IV | | |
|------------|-------------|---------------|
| Code | Paper Title | Total Credits |
| PROJ1701 | Project | 16 |

Certificate in ESG & Sustainability Program Structure

| Trimister 1 | | Trimister 2 | | |
|------------------------------------|---------|---|---------|--|
| Subject | Credits | Subject | Credits | |
| Introduction to Sustainability | 3 | Sustainable Development & circular economy | 3 | |
| Concept of ESG | 3 | Advances in sustainability Science & Engineering | 3 | |
| Management of Natural Resources | 3 | Climate change and supply chain | 3 | |
| Ptoject -I TOTAL | 9 | Project - II TOTAL | 9 | |