| | B.E. AGRICULTURAL ENGIN | EERING | | | | | |
|--|---|--|---|---|---|--|---|
| | Minimum Credits to be Earne | ed 172.0 | | | | | |
| First Semeste | er | | | | | | |
| | | Objectives | s &Outcomes | | | | |
| Code No. | Course | PEOs | POs | L | Т | Р | C |
| 18AG101 | ENGINEERING MATHEMATICS I | 1,11,111 | a,b | 3 | 1 | 0 | 4 |
| 18AG102 | ENGINEERING PHYSICS I | I,II,III,IV | a,b,i | 2 | 0 | 2 | 3 |
| 18AG103 | ENGINEERING CHEMISTRY I | I,II,III,IV | a,b,g | 2 | 0 | 2 | 3 |
| 18AG104 | BASIC ELECTRICAL ENGINEERING | I,II,III,IV | a,b,c,d,g,l | 2 | 0 | 2 | 3 |
| 18HS101 | COMMUNICATIVE ENGLISH I | II,IV | i,j | 1 | 0 | 2 | 2 |
| 18AG105 | ENGINEERING DRAWING | I,II,III,IV | a,b,c,d,e,i,j | 1 | 0 | 4 | 3 |
| | • | | Total | 11 | 1 | 12 | 18.0 |
| Second Seme | ester | | | | | | <u>. </u> |
| | | Objective | s &Outcomes | | | | |
| Code No. | Course | • | | L | Т | Р | С |
| | | PEOs | POs | | | | |
| 18AG201 | ENGINEERING MATHEMATICS II | 1,11,111 | a,b | 3 | 1 | 0 | 4 |
| 18AG202 | ENGINEERING PHYSICS II | I,II,III,IV | a,b,i | 2 | 0 | 2 | 3 |
| 18AG203 | ENGINEERING CHEMISTRY II | I,II,III,IV | a,b,g | 2 | 0 | 2 | 3 |
| 18AG204 | COMPUTER PROGRAMMING I | 1,11,111 | a,b,c,e | 2 | 0 | 2 | 3 |
| 18AG205 | PRINCIPLES OF CROP PRODUCTION TECHNOLOGY | I,II,III,IV | a,b,c,d,e,g,i,l | 2 | 0 | 2 | 3 |
| | LANGUAGE ELECTIVE | - | - | - | | - | 2 |
| 18AG207 | ENGINEERING PRACTICES LABORATORY | 1,11,111 | а | 0 | 0 | 4 | 2 |
| | | | Total | 11 | 1 | 12 | 20.0 |
| Third Semest | er | | | | | | |
| Cada Na | Course | Objectives | s &Outcomes | | т | P | ١ , |
| Code No. | | PEOs | POs | L | ' | " | C |
| 18AG301 | ENGINEERING MATHEMATICS III | 1,11,111 | a,b,c | 3 | 1 | 0 | 4 |
| | | | a,b,c,d,e,f,g,h, | _ | | | |
| 18AG302 | ENGINEERING THERMODYNAMICS | I,II,III,IV | j,l | 3 | 0 | 0 | 3 |
| 18AG303 | FLUID MECHANICS | 1,11,111 | a,b,c | 3 | 0 | 2 | 4 |
| 18AG304 | STRENGTH OF MATERIALS | I,II,III,IV | a,b,c,d,e,m,n | 3 | 1 | 0 | 4 |
| 18AG305 | SOIL MECHANICS | I,II,III,IV | a,b,c,d,e,g | 3 | 0 | 2 | 4 |
| 18AG306 | SURVEYING AND LEVELLING | I,II,III,IV | a,b,c,d,e,f,g | 3 | 0 | 0 | 3 |
| 18AG307 | COMPUTER PROGRAMMING II | I,II,III,IV | a,b,c,d,e,f,h | 1 | 0 | 4 | 3 |
| 18AG308 | SURVEYING AND LEVELLING LABORATORY | I,II,III,IV | a,b,c,d,e,f | 0 | 0 | 2 | 1 |
| 18GE301 | SOFT SKILLS - VERBAL ABILITY | - | - | 2 | 0 | 0 | 0 |
| | | | Total | 21 | 2 | 10 | 26.0 |
| | | | | | | | |
| Fourth Semes | ster | | | | | | |
| Fourth Semes | ster | Objective | s &Outcomes | | | | Ι |
| Fourth Semes | Course | • | s &Outcomes | L | т | Р | С |
| Code No. | Course | PEOs | POs | | | | |
| Code No. 18AG401 | Course NUMERICAL METHODS AND STATISTICS | PEOs | POs a,b | 3 | 1 | 0 | 4 |
| Code No. | Course | PEOs | POs a,b a,b,c,d,e,f,g,i,j | | | | |
| Code No. 18AG401 | Course NUMERICAL METHODS AND STATISTICS | PEOs | POs a,b a,b,c,d,e,f,g,i,j a,b,c,d,f,g,i,j, | 3 | 1 | 0 | 4 |
| Code No. 18AG401 18AG402 18AG403 | Course NUMERICAL METHODS AND STATISTICS HEAT AND MASS TRANSFER HYDROLOGY | PEOs , , , , , , , , , , | POs a,b a,b,c,d,e,f,g,i,j a,b,c,d,f,g,i,j, m | 3 3 | 1 0 | 0 2 | 4 4 |
| Code No. 18AG401 18AG402 18AG403 18AG404 | Course NUMERICAL METHODS AND STATISTICS HEAT AND MASS TRANSFER | PEOs I,II,III I,II,III,IV I,II,III,IV I,II,III,I | POs a,b a,b,c,d,e,f,g,i,j a,b,c,d,f,g,i,j, m a,b,c,d,e,f,h,k | 3 3 3 | 1 0 1 | 0 2 0 | 4 4 4 3 |
| Code No. 18AG401 18AG402 18AG403 | Course NUMERICAL METHODS AND STATISTICS HEAT AND MASS TRANSFER HYDROLOGY | PEOs , , , , , , , , , , | POs a,b a,b,c,d,e,f,g,i,j a,b,c,d,f,g,i,j,m a,b,c,d,e,f,h,k a,b,c,d,e,f,g,h, | 3 3 | 1 0 | 0 2 | 4 4 |
| Code No. 18AG401 18AG402 18AG403 18AG404 | Course NUMERICAL METHODS AND STATISTICS HEAT AND MASS TRANSFER HYDROLOGY PRODUCTION TECHNOLOGY OF HORTICULTURAL CROPS | PEOs 1,11,111 1,11,111,1V 1,11,111,1V 1,11,111,1 | POs a,b a,b,c,d,e,f,g,i,j a,b,c,d,f,g,i,j,m a,b,c,d,e,f,h,k a,b,c,d,e,f,g,h,i,j,l,m | 3 3 3 | 1 0 1 | 0 2 0 | 4 4 4 3 |
| Code No. 18AG401 18AG402 18AG403 18AG404 18AG405 | Course NUMERICAL METHODS AND STATISTICS HEAT AND MASS TRANSFER HYDROLOGY PRODUCTION TECHNOLOGY OF HORTICULTURAL CROPS TRACTOR AND FARM ENGNIES | PEOs 1,11,111 1,11,111,11V 1,11,111,11V 1,11,111,1 | POs a,b a,b,c,d,e,f,g,i,j a,b,c,d,f,g,i,j,m a,b,c,d,e,f,h,k a,b,c,d,e,f,g,h,i,j,l,m a,b,c,d,e,f,g,l | 3 3 3 2 3 | 1 0 1 0 | 0 2 0 2 0 | 4 4 3 3 3 |
| Code No. 18AG401 18AG402 18AG403 18AG404 18AG405 18AG406 | Course NUMERICAL METHODS AND STATISTICS HEAT AND MASS TRANSFER HYDROLOGY PRODUCTION TECHNOLOGY OF HORTICULTURAL CROPS TRACTOR AND FARM ENGNIES FARM STRUCTURES AND GREEN HOUSE TECHNOLOGY | PEOs 1,11,111 1,11,111,11V 1,11,111,11V 1,11,111,1 | POs a,b a,b,c,d,e,f,g,i,j a,b,c,d,e,f,h,k a,b,c,d,e,f,g,h, i,j,l,m a,b,c,d,e,f,g,l a,b,c,d,e,f,g,l a,b,c,d,e,f,g,l | 3 3 3 2 3 | 1 0 1 0 0 | 0 2 0 2 0 | 4 4 4 3 3 3 4 |
| Code No. 18AG401 18AG402 18AG403 18AG404 18AG406 18AG406 | Course NUMERICAL METHODS AND STATISTICS HEAT AND MASS TRANSFER HYDROLOGY PRODUCTION TECHNOLOGY OF HORTICULTURAL CROPS TRACTOR AND FARM ENGNIES FARM STRUCTURES AND GREEN HOUSE TECHNOLOGY TRACTOR AND FARM ENGINES LABORATORY | PEOs 1,11,111 1,11,111,11V 1,11,111,11V 1,11,111,1 | POs a,b a,b,c,d,e,f,g,i,j a,b,c,d,e,f,h,k a,b,c,d,e,f,h,k a,b,c,d,e,f,g,l a,b,c,d,e,f,g,l a,b,c,d,e,f,g a,b,c,d,e,f,g | 3 3 3 2 3 0 | 1 0 1 0 0 | 0 2 0 2 0 0 | 4 4 4 3 3 4 2 |
| 18AG401 18AG402 18AG403 18AG404 18AG405 18AG406 18AG407 18AG408 | Course NUMERICAL METHODS AND STATISTICS HEAT AND MASS TRANSFER HYDROLOGY PRODUCTION TECHNOLOGY OF HORTICULTURAL CROPS TRACTOR AND FARM ENGNIES FARM STRUCTURES AND GREEN HOUSE TECHNOLOGY TRACTOR AND FARM ENGINES LABORATORY COMPUTER AIDED DESIGN LABORATORY | PEOs 1,11,111 1,11,111,1V 1,11,111,1V 1,11,111,1 | POs a,b a,b,c,d,e,f,g,i,j a,b,c,d,e,f,h,k a,b,c,d,e,f,g,h, i,j,l,m a,b,c,d,e,f,g,l a,b,c,d,e,f,g,l a,b,c,d,e,f,g,l | 3 3 3 2 3 0 0 | 1 0 1 0 0 | 0 2 0 2 0 0 0 4 4 | 4 4 4 3 3 4 2 2 |
| Code No. 18AG401 18AG402 18AG403 18AG404 18AG405 18AG406 18AG407 18AG408 18HS001 | Course NUMERICAL METHODS AND STATISTICS HEAT AND MASS TRANSFER HYDROLOGY PRODUCTION TECHNOLOGY OF HORTICULTURAL CROPS TRACTOR AND FARM ENGNIES FARM STRUCTURES AND GREEN HOUSE TECHNOLOGY TRACTOR AND FARM ENGINES LABORATORY COMPUTER AIDED DESIGN LABORATORY ENVIRONMENTAL SCIENCE | PEOs 1,11,111 1,11,111,1V 1,11,111,1V 1,11,111,1 | POs a,b a,b,c,d,e,f,g,i,j a,b,c,d,e,f,h,k a,b,c,d,e,f,h,k a,b,c,d,e,f,g,l a,b,c,d,e,f,g,l a,b,c,d,e,f,g a,b,c,d,e,f,g | 3 3 3 2 3 0 0 | 1 0 1 0 0 1 0 0 | 0 2 0 2 0 0 4 4 4 | 4 4 4 3 3 4 2 2 |
| Code No. 18AG401 18AG402 18AG403 18AG404 18AG405 18AG406 18AG407 18AG408 18HS001 | Course NUMERICAL METHODS AND STATISTICS HEAT AND MASS TRANSFER HYDROLOGY PRODUCTION TECHNOLOGY OF HORTICULTURAL CROPS TRACTOR AND FARM ENGNIES FARM STRUCTURES AND GREEN HOUSE TECHNOLOGY TRACTOR AND FARM ENGINES LABORATORY COMPUTER AIDED DESIGN LABORATORY ENVIRONMENTAL SCIENCE SOFT SKILLS-REASONING | PEOs 1,11,111 1,11,111,1V 1,11,111,1V 1,11,111,1 | POs a,b a,b,c,d,e,f,g,i,j a,b,c,d,f,g,i,j,m a,b,c,d,e,f,g,h,i,j,l,m a,b,c,d,e,f,g,l a,b,c,e,f,g a,b,c,d,e a,b - | 3 3 3 2 3 3 0 0 | 1 0 1 0 0 1 0 0 0 | 0 2 0 2 0 0 4 4 0 | 4 4 4 3 3 4 2 2 0 0 |
| 18AG401 18AG402 18AG403 18AG404 18AG405 18AG406 18AG407 18AG408 18HS001 18GE401 | Course NUMERICAL METHODS AND STATISTICS HEAT AND MASS TRANSFER HYDROLOGY PRODUCTION TECHNOLOGY OF HORTICULTURAL CROPS TRACTOR AND FARM ENGNIES FARM STRUCTURES AND GREEN HOUSE TECHNOLOGY TRACTOR AND FARM ENGINES LABORATORY COMPUTER AIDED DESIGN LABORATORY ENVIRONMENTAL SCIENCE SOFT SKILLS-REASONING | PEOs I,II,III I,II,III,IV I,II,III,IV I,II,III,I | POs a,b a,b,c,d,e,f,g,i,j a,b,c,d,f,g,i,j,m a,b,c,d,e,f,g,h, i,j,l,m a,b,c,d,e,f,g,l a,b,c,d,e,f,g,l a,b,c,d,e a,b - Total | 3 3 3 2 3 3 0 0 | 1 0 1 0 0 1 0 0 0 | 0 2 0 2 0 0 4 4 0 | 4 4 4 3 3 4 2 2 0 0 |
| 18AG401 18AG402 18AG403 18AG404 18AG405 18AG406 18AG407 18AG408 18HS001 18GE401 | Course NUMERICAL METHODS AND STATISTICS HEAT AND MASS TRANSFER HYDROLOGY PRODUCTION TECHNOLOGY OF HORTICULTURAL CROPS TRACTOR AND FARM ENGNIES FARM STRUCTURES AND GREEN HOUSE TECHNOLOGY TRACTOR AND FARM ENGINES LABORATORY COMPUTER AIDED DESIGN LABORATORY ENVIRONMENTAL SCIENCE SOFT SKILLS-REASONING | PEOs I,II,III I,II,III,IV I,II,III,IV I,II,III,I | POs a,b a,b,c,d,e,f,g,i,j a,b,c,d,e,f,g,i,,m a,b,c,d,e,f,g,h,i,j,l,m a,b,c,d,e,f,g,l a,b,c,d,e,f,g,l a,b,c,d,e a,b - Total | 3 3 3 2 3 3 0 0 | 1 0 1 0 0 1 0 0 0 | 0 2 0 2 0 0 4 4 0 | 4 4 4 3 3 4 2 2 0 0 |
| Code No. 18AG401 18AG402 18AG403 18AG404 18AG405 18AG406 18AG407 18AG408 18HS001 18GE401 | NUMERICAL METHODS AND STATISTICS HEAT AND MASS TRANSFER HYDROLOGY PRODUCTION TECHNOLOGY OF HORTICULTURAL CROPS TRACTOR AND FARM ENGNIES FARM STRUCTURES AND GREEN HOUSE TECHNOLOGY TRACTOR AND FARM ENGINES LABORATORY COMPUTER AIDED DESIGN LABORATORY ENVIRONMENTAL SCIENCE SOFT SKILLS-REASONING | PEOs I,II,III I,II,III,IV I,II,III,IV I,II,III,I | POs a,b a,b,c,d,e,f,g,i,j a,b,c,d,e,f,g,i,,m a,b,c,d,e,f,g,h, i,j,l,m a,b,c,d,e,f,g,l a,b,c,d,e a,b,c,d,e Total s &Outcomes POs | 3 3 3 2 3 0 0 0 2 2 21 | 1 0 1 0 0 1 0 0 0 0 0 | 0 2 0 2 0 0 4 4 0 0 | 4 4 4 3 3 4 2 2 0 0 26.0 |
| Code No. 18AG401 18AG402 18AG403 18AG404 18AG405 18AG406 18AG407 18AG408 18HS001 18GE401 | NUMERICAL METHODS AND STATISTICS HEAT AND MASS TRANSFER HYDROLOGY PRODUCTION TECHNOLOGY OF HORTICULTURAL CROPS TRACTOR AND FARM ENGNIES FARM STRUCTURES AND GREEN HOUSE TECHNOLOGY TRACTOR AND FARM ENGINES LABORATORY COMPUTER AIDED DESIGN LABORATORY ENVIRONMENTAL SCIENCE SOFT SKILLS-REASONING | PEOs I,II,III I,II,III,IV I,II,III,IV I,II,III,I | POs a,b a,b,c,d,e,f,g,i,j a,b,c,d,e,f,g,i,,m a,b,c,d,e,f,g,h, i,j,l,m a,b,c,d,e,f,g,l a,b,c,d,e a,b - Total s &Outcomes POs a,b,c,d,e,f,g,h, | 3 3 3 2 3 0 0 0 2 2 21 | 1 0 1 0 0 1 0 0 0 0 0 | 0 2 0 2 0 0 4 4 0 0 | 4 4 4 3 3 4 2 2 0 0 26.0 |
| Code No. 18AG401 18AG402 18AG403 18AG404 18AG405 18AG406 18AG407 18AG408 18HS001 18GE401 Fifth Semeste | Course NUMERICAL METHODS AND STATISTICS HEAT AND MASS TRANSFER HYDROLOGY PRODUCTION TECHNOLOGY OF HORTICULTURAL CROPS TRACTOR AND FARM ENGNIES FARM STRUCTURES AND GREEN HOUSE TECHNOLOGY TRACTOR AND FARM ENGINES LABORATORY COMPUTER AIDED DESIGN LABORATORY ENVIRONMENTAL SCIENCE SOFT SKILLS-REASONING COURSE | PEOs I,II,III I,II,III,IV I,II,III,IV I,II,III,I | POs a,b a,b,c,d,e,f,g,i,j a,b,c,d,e,f,g,i,j,m a,b,c,d,e,f,g,h,i,j,l,m a,b,c,d,e,f,g,l a,b,c,d,e a,b - Total s &Outcomes POs a,b,c,d,e,f,g,h,i,j,k,m,n | 3 3 3 2 3 0 0 2 2 21 | 1 0 0 1 0 0 0 0 0 3 T | 0 2 0 2 0 0 4 4 0 0 12 | 4 4 4 3 3 4 2 2 0 0 26.0 |
| Code No. 18AG401 18AG402 18AG403 18AG404 18AG405 18AG406 18AG407 18AG408 18HS001 18GE401 Fifth Semeste | Course NUMERICAL METHODS AND STATISTICS HEAT AND MASS TRANSFER HYDROLOGY PRODUCTION TECHNOLOGY OF HORTICULTURAL CROPS TRACTOR AND FARM ENGNIES FARM STRUCTURES AND GREEN HOUSE TECHNOLOGY TRACTOR AND FARM ENGINES LABORATORY COMPUTER AIDED DESIGN LABORATORY ENVIRONMENTAL SCIENCE SOFT SKILLS-REASONING COURSE | PEOs I,II,III I,II,III,IV I,II,III,IV I,II,III,I | POs a,b a,b,c,d,e,f,g,i,j a,b,c,d,e,f,g,h,i,j,l,m a,b,c,d,e,f,g,h a,b,c,d,e,f,g,l a,b,c,d,e,f,g a,b,c,d,e a,b Total s &Outcomes POs a,b,c,d,e,f,g,h,i,j,k,m,n a,b,c,d,e,f,g,h,i,j,k,m,n | 3 3 3 2 3 0 0 2 2 21 | 1 0 0 1 0 0 0 0 0 3 T | 0 2 0 2 0 0 4 4 0 0 12 | 4 4 4 3 3 4 2 2 0 0 26.0 |
| Code No. 18AG401 18AG402 18AG403 18AG404 18AG405 18AG406 18AG407 18AG408 18HS001 18GE401 Fifth Semester Code No. 18AG501 | Course NUMERICAL METHODS AND STATISTICS HEAT AND MASS TRANSFER HYDROLOGY PRODUCTION TECHNOLOGY OF HORTICULTURAL CROPS TRACTOR AND FARM ENGNIES FARM STRUCTURES AND GREEN HOUSE TECHNOLOGY TRACTOR AND FARM ENGINES LABORATORY COMPUTER AIDED DESIGN LABORATORY ENVIRONMENTAL SCIENCE SOFT SKILLS-REASONING Course FARM IMPLEMENTS AND EQUIPMENT SOIL AND WATER CONSERVATION ENGINEERING | PEOs I,II,III I,II,III,IV I,II,III,IV I,II,III,I | POs a,b a,b,c,d,e,f,g,i,j a,b,c,d,e,f,g,i,j,m a,b,c,d,e,f,g,h, i,j,l,m a,b,c,d,e,f,g,l a,b,c,e,f,g a,b,c,d,e a,b - Total s &Outcomes POs a,b,c,d,e,f,g,h, i,j,k,m,n a,b,c,d,e,f,g,h, i,j,k,m,n | 3 3 3 2 3 3 0 0 2 2 2 21 | 1 0 0 1 0 0 0 0 3 T T 0 0 | 0 2 0 0 0 4 4 0 0 12 P 0 2 | 4 4 4 3 3 3 4 2 2 0 0 26.0 |
| Code No. 18AG401 18AG402 18AG403 18AG404 18AG405 18AG406 18AG407 18AG408 18HS001 18GE401 Fifth Semester Code No. | Course NUMERICAL METHODS AND STATISTICS HEAT AND MASS TRANSFER HYDROLOGY PRODUCTION TECHNOLOGY OF HORTICULTURAL CROPS TRACTOR AND FARM ENGNIES FARM STRUCTURES AND GREEN HOUSE TECHNOLOGY TRACTOR AND FARM ENGINES LABORATORY COMPUTER AIDED DESIGN LABORATORY ENVIRONMENTAL SCIENCE SOFT SKILLS-REASONING Course FARM IMPLEMENTS AND EQUIPMENT | PEOs I,II,III I,II,III,IV I,II,III,IV I,II,III,I | POs a,b a,b,c,d,e,f,g,i,j a,b,c,d,e,f,g,h,i,j,l,m a,b,c,d,e,f,g,h a,b,c,d,e,f,g,l a,b,c,d,e,f,g a,b,c,d,e a,b Total s &Outcomes POs a,b,c,d,e,f,g,h,i,j,k,m,n a,b,c,d,e,f,g,h,i,j,k,m,n | 3 3 3 2 3 0 0 2 2 21 | 1 0 0 1 0 0 0 0 3 T | 0 2 0 2 0 0 4 4 0 0 12 | 4 4 4 3 3 4 2 0 0 26.0 |
| Code No. 18AG401 18AG402 18AG403 18AG404 18AG405 18AG406 18AG407 18AG408 18HS001 18GE401 Fifth Semester Code No. 18AG501 | Course NUMERICAL METHODS AND STATISTICS HEAT AND MASS TRANSFER HYDROLOGY PRODUCTION TECHNOLOGY OF HORTICULTURAL CROPS TRACTOR AND FARM ENGNIES FARM STRUCTURES AND GREEN HOUSE TECHNOLOGY TRACTOR AND FARM ENGINES LABORATORY COMPUTER AIDED DESIGN LABORATORY ENVIRONMENTAL SCIENCE SOFT SKILLS-REASONING Course FARM IMPLEMENTS AND EQUIPMENT SOIL AND WATER CONSERVATION ENGINEERING | PEOs I,II,III I,II,III,IV I,II,III,IV I,II,III,I | POs a,b a,b,c,d,e,f,g,i,j a,b,c,d,e,f,g,i,j,m a,b,c,d,e,f,g,h, i,j,l,m a,b,c,d,e,f,g,l a,b,c,e,f,g a,b,c,d,e a,b - Total s &Outcomes POs a,b,c,d,e,f,g,h, i,j,k,m,n a,b,c,d,e,f,g,h, i,j,k,m,n a,b,c,d,e,f,g,h, i,j,k,m,n a,b,c,d,e,f,g,h, i,m,n a,b,c,d,e,f,g,h, i,m,n a,b,c,d,e,g,i,k,l | 3 3 3 2 3 3 0 0 2 2 2 21 | 1 0 0 1 0 0 0 0 3 T T 0 0 | 0 2 0 0 0 4 4 0 0 12 P 0 2 | 4 4 4 3 3 3 4 2 2 0 0 26.0 |
| Code No. 18AG401 18AG402 18AG403 18AG404 18AG405 18AG406 18AG407 18AG408 18HS001 18GE401 Fifth Semeste Code No. 18AG501 18AG502 18AG503 | NUMERICAL METHODS AND STATISTICS HEAT AND MASS TRANSFER HYDROLOGY PRODUCTION TECHNOLOGY OF HORTICULTURAL CROPS TRACTOR AND FARM ENGNIES FARM STRUCTURES AND GREEN HOUSE TECHNOLOGY TRACTOR AND FARM ENGINES LABORATORY COMPUTER AIDED DESIGN LABORATORY ENVIRONMENTAL SCIENCE SOFT SKILLS-REASONING TOURSE FARM IMPLEMENTS AND EQUIPMENT SOIL AND WATER CONSERVATION ENGINEERING UNIT OPERATIONS IN AGRICULTURAL PROCESS ENGINEERING | PEOs , , , , , , , , , , | POs a,b a,b,c,d,e,f,g,i,j a,b,c,d,e,f,g,i,j,m a,b,c,d,e,f,g,h, i,j,l,m a,b,c,d,e,f,g,l a,b,c,d,e a,b - Total s &Outcomes POs a,b,c,d,e,f,g,h, i,j,k,m,n a,b,c,d,e,f,g,h, i,j,k,m,n a,b,c,d,e,f,g,h, i,j,k,m,n a,b,c,d,e,f,g,h, i,m,n | 3 3 3 3 0 0 2 2 21 L 3 3 | 1 0 0 1 0 0 0 0 3 T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 2 0 0 4 4 0 0 12 P 0 2 0 | 4 4 4 3 3 3 4 2 0 0 26.0 |
| Code No. 18AG401 18AG402 18AG403 18AG404 18AG405 18AG406 18AG407 18AG408 18HS001 18GE401 Fifth Semeste Code No. 18AG501 18AG502 18AG503 | NUMERICAL METHODS AND STATISTICS HEAT AND MASS TRANSFER HYDROLOGY PRODUCTION TECHNOLOGY OF HORTICULTURAL CROPS TRACTOR AND FARM ENGNIES FARM STRUCTURES AND GREEN HOUSE TECHNOLOGY TRACTOR AND FARM ENGINES LABORATORY COMPUTER AIDED DESIGN LABORATORY ENVIRONMENTAL SCIENCE SOFT SKILLS-REASONING TO COURSE FARM IMPLEMENTS AND EQUIPMENT SOIL AND WATER CONSERVATION ENGINEERING UNIT OPERATIONS IN AGRICULTURAL PROCESS ENGINEERING IOT IN AGRICULTURAL SYSTEMS | PEOs , , , , , , , , , , | POs a,b a,b,c,d,e,f,g,i,j a,b,c,d,e,f,g,i,j,m a,b,c,d,e,f,g,h, i,j,l,m a,b,c,d,e,f,g,l a,b,c,d,e a,b - Total s &Outcomes POs a,b,c,d,e,f,g,h, i,j,k,m,n a,b,c,d,e,f,g,h, i,j,k,m,n a,b,c,d,e,f,g,h, i,j,k,m,n a,b,c,d,e,f,g,h, i,m,n | 3 3 3 3 0 0 2 2 21 L 3 3 | 1 0 0 1 0 0 0 0 3 T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 2 0 0 4 4 0 0 12 P 0 2 0 | 4 4 4 3 3 3 4 2 0 0 26.0 |

| 18AG508 | UNIT OPERATIONS IN AGRICULTURAL PROCESS ENGINEERING | | 1 | | | _ | |
|---|--|-------------------------|---|---|---|---|--|
| | LABORATORY | I,II,III,I∨ | a,b,c,d | 0 | 0 | 2 | 1 |
| 18GE501 | SOFT SKILLS - APTITUDE I | - | - | 0 | 0 | 2 | 0 |
| | | | Total | 12 | 0 | 10 | 22.0 |
| Sixth Semest | er | | | | | | |
| 0l - N - | 0 | Objective | s &Outcomes | | _ | Р | С |
| Code No. | Course | PEOs | POs | L | T | | |
| 18HS002 | PROFESSIONAL ETHICS IN ENGINEERING | - FLOS | | 2 | 0 | 0 | 2 |
| 18AG602 | IRRIGATION AND DRAINAGE ENGINEERING | I,II,III,IV | a,b,c,d,e,f,l,n | 3 | 0 | 0 | 3 |
| | | | a,b,c,d,e,f,g,l, | | | | |
| 18AG603 | POST HARVEST TECHNOLOGY OF AGRICULTURAL CROPS | 1,11,111,1V | n | 3 | 0 | 0 | 3 |
| 18AG604 | TRANSFER OF AGRICULTURE TECHNOLOGY | I,II,III,IV | a,b,c,d,e,f,g,h, | 3 | 0 | 0 | 3 |
| | | i,j,l | | | | | |
| | PROFESSIONAL ELECTIVE III | - | - | - | - | - | 3 |
| 1010007 | PROFESSIONAL ELECTIVE IV | - | - | - | - | - | 3 |
| 18AG607 | IRRIGATION ENGINEERING LABORATORY POST HARVEST TECHNOLOGY OF AGRICULTURAL CROPS | I,II,III,IV | a,b,c,d,e,l | 0 | 0 | 2 | 1 |
| 18AG608 | LABORATORY | I,II,III,IV | a,b,c,d,e,f,g,l | 0 | 0 | 2 | 1 |
| 18GE601 | SOFT SKILLS-APTITUDE II | - - | 1- | 0 | 0 | 2 | 0 |
| | | | Total | 11 | 0 | 6 | 19.0 |
| Seventh Sem | ester | | | | | | |
| | | Objective | s &Outcomes | | | | |
| Code No. | Course | | | L | т | Р | C |
| | | PEOs | POs | | | | |
| 18HS003 | PRINCIPLES OF MANAGEMENT | - | - | 2 | 0 | 0 | 2 |
| 18AG702 | RENEWABLE ENERGY RESOURCES | I,II,III,IV | a,b,c,d,e,f,g,n | 3 | 0 | 2 | 4 |
| 18AG703 | FOOD AND DAIRY ENGINEERING | I,II,III,IV | a,b,c,d,e,f,g,k, | 3 | 0 | 0 | 3 |
| | | m,n a,b,c,d,f,g,l,m, | | | | | |
| 18AG704 | RS AND GIS FOR NATURAL RESOURCE MANAGEMENT | I,II,III,IV | a,b,c,u,i,g,i,iii, | 3 | 0 | 0 | 3 |
| | PROFESSIONAL ELECTIVE V | - | - | - | - | - | 3 |
| | PROFESSIONAL ELECYIVE VI | - | - | - | - | - | 3 |
| 18AG707 | RS AND GIS LABORATORY | I,II,III,IV | a,b,c,d,e | 0 | 0 | 2 | 1 |
| 18AG708 | FOOD AND DAIRY ENGINEERING LABORATORY | I,II,III,IV | a,b,c,d,e | 0 | 0 | 2 | 1 |
| | | - ` ` ` ` | a,b,c,d,e,g,i,j,k | | | | |
| 18AG709 | PROJECT WORK I | I,II,III,IV | ,n | 0 | 0 | 6 | 3 |
| | | I | ,11 | | I | | 1 |
| | I . | | Total | 11 | 0 | 12 | 23.0 |
| Eight Semest | er | | <i>'</i> | 11 | 0 | 12 | 23.0 |
| | 1 | Objective | Total | | - | | |
| Eight Semest | Course | | Total | 11 L | 0 T | 12 P | 23.0 C |
| Code No. | Course | Objective: PEOs | Total | L | Т | Р | С |
| | Course PROJECT WORK II | | Total | L | T | P | C 9 |
| Code No. | Course PROJECT WORK II PROFESSIONAL ELECTIVE VII | | Total | L 0 | T 0 - | Р | C 9 3 |
| Code No. | PROJECT WORK II PROFESSIONAL ELECTIVE VII PROFESSIONAL ELECTIVE VIII | | Total | L 0 - | T 0 - | P 18 - | C 9 3 3 3 |
| Code No. | Course PROJECT WORK II PROFESSIONAL ELECTIVE VII | | Total s &Outcomes POs | L 0 | T 0 | P 18 | C 9 3 3 3 |
| Code No. 18AG804 | PROJECT WORK II PROFESSIONAL ELECTIVE VII PROFESSIONAL ELECTIVE VIII | | Total | L 0 - | T 0 - | P 18 - | C 9 3 3 3 |
| Code No. | PROJECT WORK II PROFESSIONAL ELECTIVE VII PROFESSIONAL ELECTIVE VIII | PEOs | Total s &Outcomes POs Total | L 0 | T 0 | P 18 | C 9 3 3 3 |
| Code No. 18AG804 | PROJECT WORK II PROFESSIONAL ELECTIVE VII PROFESSIONAL ELECTIVE VIII | PEOs | Total s &Outcomes POs | L 0 | T 0 | P 18 | C 9 3 3 3 |
| Code No. 18AG804 Electives Code No. | PROJECT WORK II PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE IX Course | PEOs | Total s &Outcomes POs Total | L 0 0 | T 0 0 | P 18 18 | C 9 3 3 3 3 18.0 |
| Code No. 18AG804 Electives | PROJECT WORK II PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE IX Course | PEOs Objective | Total s &Outcomes POs Total s &Outcomes | L 0 0 | T 0 0 | P 18 18 | C 9 3 3 3 3 18.0 |
| Code No. 18AG804 Electives Code No. LANGUAGE I | PROJECT WORK II PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE VIIII PROFESSIONAL ELECTIVE IX Course ELECTIVES CHINESE | PEOs Objective | Total s &Outcomes POs Total s &Outcomes | L 0 0 | T 0 0 T | P 18 18 P 2 | C 9 3 3 3 3 18.0 C |
| Code No. 18AG804 Electives Code No. LANGUAGE I 18HSC01 18HSG01 | PROJECT WORK II PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE VIIII PROFESSIONAL ELECTIVE IX Course ELECTIVES CHINESE GERMAN | PEOs Objective | Total s &Outcomes POs Total s &Outcomes | L 0 0 L 1 1 | T 0 0 T 0 0 0 | P 18 18 P 2 2 | C 9 3 3 3 3 18.0 C |
| Code No. 18AG804 Electives Code No. LANGUAGE I 18HSC01 18HSG01 18HSH01 | PROJECT WORK II PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE VIIII PROFESSIONAL ELECTIVE IX Course ELECTIVES CHINESE GERMAN HINDI | PEOs Objective | Total s &Outcomes POs Total s &Outcomes | L 0 0 0 L 1 1 1 | T 0 0 0 0 0 0 | P 18 18 P 2 2 2 2 | C 9 3 3 3 18.0 C C |
| Code No. 18AG804 Electives Code No. LANGUAGE I 18HSC01 18HSG01 | PROJECT WORK II PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE VIIII PROFESSIONAL ELECTIVE IX Course ELECTIVES CHINESE GERMAN | PEOs Objective | Total s &Outcomes POs Total s &Outcomes | L 0 0 L 1 1 | T 0 0 T 0 0 0 | P 18 18 P 2 2 | C 9 3 3 3 18.0 C C |
| Code No. 18AG804 Electives Code No. LANGUAGE I 18HSC01 18HSG01 18HSH01 | Course PROJECT WORK II PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE IX Course ELECTIVES CHINESE GERMAN HINDI JAPANESE | PEOs Objective | Total s &Outcomes POs Total s &Outcomes | L 0 0 0 L 1 1 1 | T 0 0 0 0 0 0 | P 18 18 P 2 2 2 2 | C 9 3 3 3 18.0 C C |
| Code No. 18AG804 Electives Code No. LANGUAGE I 18HSC01 18HSG01 18HSH01 18HSJ01 | Course PROJECT WORK II PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE IX Course ELECTIVES CHINESE GERMAN HINDI JAPANESE | PEOs Objective | Total s &Outcomes POs Total s &Outcomes | L 0 0 0 L 1 1 1 1 1 3 | T 0 0 0 0 0 0 | P 18 18 P 2 2 2 2 | C 9 3 3 3 18.0 C C 2 2 2 2 2 2 3 |
| Code No. 18AG804 Electives Code No. 18HSC01 18HSG01 18HSH01 18HSJ01 DISCIPLINE E 18AG002 18AG003 | Course PROJECT WORK II PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE IX Course ELECTIVES CHINESE GERMAN HINDI JAPANESE ELECTIVES REFRIGERATION AND COLD STORAGE STORAGE AND PACKAGING TECHNOLOGY | PEOs | Total s &Outcomes POs Total Total s &Outcomes POs a,b,c,d,e,f,i,l a,b,c,d,f,g,h | L 0 0 0 L 1 1 1 1 1 3 3 3 3 | T 0 0 0 0 0 0 0 0 0 0 0 0 | P 18 18 P 2 2 2 2 2 0 0 0 | C 9 3 3 3 18.0 C C 2 2 2 2 2 2 3 3 3 3 |
| Code No. 18AG804 Electives Code No. 18HSC01 18HSG01 18HSH01 18HSJ01 DISCIPLINE E 18AG002 18AG003 18AG004 | Course PROJECT WORK II PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE IX Course ELECTIVES CHINESE GERMAN HINDI JAPANESE ELECTIVES REFRIGERATION AND COLD STORAGE STORAGE AND PACKAGING TECHNOLOGY TECHNOLOGY OF SEED PROCESSING | PEOs Objective PEOs | Total | L 0 0 L 1 1 1 1 1 3 3 3 3 3 3 | T 0 0 0 0 0 0 0 0 0 0 0 0 | P 18 18 P 2 2 2 2 2 0 0 0 0 | C 9 3 3 3 18.0 C 2 2 2 2 2 2 3 3 3 3 3 3 3 |
| Code No. 18AG804 Electives Code No. 18HSC01 18HSG01 18HSH01 18HSJ01 DISCIPLINE E 18AG002 18AG003 18AG004 18AG005 | Course PROJECT WORK II PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE IX Course ELECTIVES CHINESE GERMAN HINDI JAPANESE ELECTIVES REFRIGERATION AND COLD STORAGE STORAGE AND PACKAGING TECHNOLOGY TECHNOLOGY OF SEED PROCESSING FAT AND OIL PROCESSING | PEOs | Total s &Outcomes POs Total Total s &Outcomes POs a,b,c,d,e,f,i,l a,b,c,d,f,g,h | L 0 0 0 L 1 1 1 1 1 3 3 3 3 3 3 3 | T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | P 18 18 P 2 2 2 2 0 0 0 0 0 0 | C 9 3 3 3 18.0 C C 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 |
| Code No. 18AG804 Electives Code No. 18HSC01 18HSG01 18HSH01 18HSJ01 DISCIPLINE E 18AG002 18AG003 18AG004 18AG005 18AG006 | Course PROJECT WORK II PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE VIIII PROFESSIONAL ELECTIVE IX Course ELECTIVES CHINESE GERMAN HINDI JAPANESE ELECTIVES REFRIGERATION AND COLD STORAGE STORAGE AND PACKAGING TECHNOLOGY TECHNOLOGY OF SEED PROCESSING FAT AND OIL PROCESSING HORTICULTURAL CROP PROCESS ENGINEERING | PEOs | Total s &Outcomes POs Total s &Outcomes POs a,b,c,d,e,f,i,l a,b,c,d,e,g,l a,b,c,d,e,g,l a,b,c,d,e,g,l a,b,c,d,e,g,l,l a,b,c,d,e,g,l,l a,b,c,d,e,g,l,l | L 0 0 0 L 1 1 1 1 1 3 3 3 3 3 3 3 3 3 | T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | P 18 18 P 2 2 2 2 2 0 0 0 0 0 0 0 0 0 | C 9 3 3 3 18.0 C C 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 |
| Code No. 18AG804 Electives Code No. 18HSC01 18HSC01 18HSH01 18HSJ01 DISCIPLINE E 18AG002 18AG003 18AG004 18AG005 18AG006 18AG007 | Course PROJECT WORK II PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE VIIII PROFESSIONAL ELECTIVE IX Course ELECTIVES CHINESE GERMAN HINDI JAPANESE ELECTIVES REFRIGERATION AND COLD STORAGE STORAGE AND PACKAGING TECHNOLOGY TECHNOLOGY OF SEED PROCESSING FAT AND OIL PROCESSING HORTICULTURAL CROP PROCESS ENGINEERING SUGAR TECHNOLOGY | PEOs | Total | L 0 0 0 L 1 1 1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | P 18 18 P 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | C 9 3 3 3 18.0 C 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 |
| Code No. 18AG804 Electives Code No. 18HSC01 18HSG01 18HSH01 18HSJ01 DISCIPLINE E 18AG002 18AG003 18AG004 18AG005 18AG006 | Course PROJECT WORK II PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE VIIII PROFESSIONAL ELECTIVE IX Course ELECTIVES CHINESE GERMAN HINDI JAPANESE ELECTIVES REFRIGERATION AND COLD STORAGE STORAGE AND PACKAGING TECHNOLOGY TECHNOLOGY OF SEED PROCESSING FAT AND OIL PROCESSING HORTICULTURAL CROP PROCESS ENGINEERING | PEOs | Total s &Outcomes POs Total s &Outcomes POs a,b,c,d,e,f,i,l a,b,c,d,e,g,l a,b,c,d,e,g,l a,b,c,d,e,g,l a,b,c,d,e,g,l,l a,b,c,d,e,g,l,l a,b,c,d,e,g,l,l | L 0 0 1 1 1 1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 | T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | P 18 18 P 2 2 2 2 2 0 0 0 0 0 0 0 0 0 | C 9 3 3 3 18.0 C C 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 |
| Code No. 18AG804 Electives Code No. 18HSC01 18HSC01 18HSH01 18HSJ01 DISCIPLINE E 18AG002 18AG003 18AG004 18AG005 18AG006 18AG007 | Course PROJECT WORK II PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE VIIII PROFESSIONAL ELECTIVE IX Course ELECTIVES CHINESE GERMAN HINDI JAPANESE ELECTIVES REFRIGERATION AND COLD STORAGE STORAGE AND PACKAGING TECHNOLOGY TECHNOLOGY OF SEED PROCESSING FAT AND OIL PROCESSING HORTICULTURAL CROP PROCESS ENGINEERING SUGAR TECHNOLOGY | PEOs | Total | L 0 0 0 L 1 1 1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | P 18 18 P 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | C 9 3 3 3 18.0 C 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 |
| Code No. 18AG804 Electives Code No. 18HSC01 18HSC01 18HSH01 18HSJ01 DISCIPLINE E 18AG002 18AG003 18AG004 18AG005 18AG006 18AG007 18AG008 | Course PROJECT WORK II PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE VIIII PROFESSIONAL ELECTIVE IX Course ELECTIVES CHINESE GERMAN HINDI JAPANESE ELECTIVES REFRIGERATION AND COLD STORAGE STORAGE AND PACKAGING TECHNOLOGY TECHNOLOGY OF SEED PROCESSING FAT AND OIL PROCESSING HORTICULTURAL CROP PROCESS ENGINEERING SUGAR TECHNOLOGY BIO AND THERMO CHEMICAL CONSERVATION OF BIO MASS | PEOs | Total s &Outcomes POs | L 0 0 1 1 1 1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 | T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | P 18 18 P 2 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 | C 9 3 3 3 18.0 C 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 |
| Code No. 18AG804 Electives Code No. LANGUAGE I 18HSC01 18HSC01 18HSH01 18HSJ01 DISCIPLINE I 18AG002 18AG003 18AG004 18AG005 18AG006 18AG007 18AG008 18AG009 18AG010 | PROJECT WORK II PROFESSIONAL ELECTIVE VII PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE IX Course ELECTIVES CHINESE GERMAN HINDI JAPANESE ELECTIVES REFRIGERATION AND COLD STORAGE STORAGE AND PACKAGING TECHNOLOGY TECHNOLOGY OF SEED PROCESSING FAT AND OIL PROCESSING HORTICULTURAL CROP PROCESS ENGINEERING SUGAR TECHNOLOGY BIO AND THERMO CHEMICAL CONSERVATION OF BIO MASS SOLAR AND WIND ENGINEERING ENERGY CONSERVATION IN AGRO BASED INDUSTRY | PEOs | Total s &Outcomes POs Total s &Outcomes POs Total s &Outcomes POs | L 0 0 0 0 L 1 1 1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | P 18 18 P 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 | C 9 3 3 3 18.0 C 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 |
| Code No. 18AG804 Electives Code No. LANGUAGE I 18HSC01 18HSC01 18HSH01 18HSJ01 DISCIPLINE I 18AG002 18AG003 18AG004 18AG005 18AG006 18AG007 18AG008 18AG009 18AG010 | Course PROJECT WORK II PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE IX Course ELECTIVES CHINESE GERMAN HINDI JAPANESE ELECTIVES REFRIGERATION AND COLD STORAGE STORAGE AND PACKAGING TECHNOLOGY TECHNOLOGY OF SEED PROCESSING FAT AND OIL PROCESSING HORTICULTURAL CROP PROCESS ENGINEERING SUGAR TECHNOLOGY BIO AND THERMO CHEMICAL CONSERVATION OF BIO MASS SOLAR AND WIND ENGINEERING ENERGY CONSERVATION IN AGRO BASED INDUSTRY CO -GENERATION AND WASTE HEAT RECOVERY SYSTEMS | PEOs | Total s &Outcomes POs Total s &Outcomes POs Total s &Outcomes POs | L 0 0 1 1 1 1 1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 | T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | P 18 18 P 2 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 | C 9 3 3 3 18.0 C 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 |
| Code No. 18AG804 Electives Code No. LANGUAGE I 18HSC01 18HSC01 18HSH01 18HSJ01 DISCIPLINE I 18AG002 18AG003 18AG004 18AG005 18AG006 18AG007 18AG008 18AG009 18AG010 | PROJECT WORK II PROFESSIONAL ELECTIVE VII PROFESSIONAL ELECTIVE VIII PROFESSIONAL ELECTIVE IX Course ELECTIVES CHINESE GERMAN HINDI JAPANESE ELECTIVES REFRIGERATION AND COLD STORAGE STORAGE AND PACKAGING TECHNOLOGY TECHNOLOGY OF SEED PROCESSING FAT AND OIL PROCESSING HORTICULTURAL CROP PROCESS ENGINEERING SUGAR TECHNOLOGY BIO AND THERMO CHEMICAL CONSERVATION OF BIO MASS SOLAR AND WIND ENGINEERING ENERGY CONSERVATION IN AGRO BASED INDUSTRY | PEOs | Total s &Outcomes POs Total s &Outcomes POs Total s &Outcomes POs | L 0 0 0 0 L 1 1 1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | P 18 18 P 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 | C 9 3 3 3 18.0 C 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 |

| 18AG014 | RESERVOIR AND FARM POND DESIGN | I,II,III,IV | a,b,c,d,e,f,g | 3 | 0 | 0 | 3 |
|---|--|-----------------------------------|--------------------------------------|------------------|-------------------|---------------|-------|
| | | | a,b,c,d,e,f,g,l, | | | | - |
| 18AG015 | DESIGN OF MICRO IRRIGATION SYSTEMS | I,II,III,IV | m,n | 3 | 0 | 0 | 3 |
| 18AG016 | MECHANICS OF TILLAGE AND TRACTION | I,II,III,IV | a,b,c,d,e,f,l | 3 | 0 | 0 | 3 |
| 18AG017 | PRODUCTION TECHNOLOGY OF AGRICULTURAL MACHINERY | I,II,III,IV | a,b,c,d,e,f,g,j, k,l | 3 | 0 | 0 | 3 |
| 18AG018 | HUMAN ENGINEERING AND SAFETY | I,II,III,IV | a,b,c,d,e,f,g | 3 | 0 | 0 | 3 |
| 18AG019 | DISATER MANAGEMENT | I,II,III,IV | a,c,d,e,f,g,h,i,j ,m | 3 | 0 | 0 | 3 |
| 18AG020 | CDM AND CARBON TRADING TECHNOLOGY | I,II,III,IV | a,b,c,d,e,f,g,j | 3 | 0 | 0 | 3 |
| 18AG021 | CLIMATE CHNAGE AND ADOPTION | I,II,III,IV | a,b,c,d,f,g | 3 | 0 | 0 | 3 |
| | | | a,b,c,d,e,f,g,h, | | | | |
| 18AG022 | AGRICULTURAL MARKETING | I,II,III,IV | i,j,k,l a,b,c,d,e,f,g,h, | 3 | 0 | 0 | 3 |
| 18AG023 | PLANT PROTECTION | I,II,III,IV | i,j,k,l | 3 | 0 | 0 | 3 |
| 18AG024 | EMERGING TECHNOLOGIES IN FOOD PROCESS ENGINEERING | I,II,III,IV | a,b,c,d,e,f,i,l | 3 | 0 | 0 | 3 |
| 18AG025 | MUSHROOM PRODUCTION TECHNOLOGY | I,II,III,IV | b,c,f,g,h,i,j,k | 3 | 0 | 0 | 3 |
| 18AG026 | AGRI BUSINESS MANAGEMENT AND ENTERPREUSHIP | I,II,III,IV | a,b,c,d,e,f,g,h, i,k | 3 | 0 | 0 | 3 |
| 18AG027 | AGRICULTURAL FINANCE, BANKING AND COOPERATION | I,II,III,IV | a,b,c,d,e,f,g,h, k | 3 | 0 | 0 | 3 |
| 18AG028 | DESIGN OF AGRICULTURE MACHINERY | I,II,III,IV | a,b,c,d,e,f,g,h, i,j,m,n | 3 | 0 | 0 | 3 |
| OPEN ELECTI | VES | | ar re- | | i | | |
| 18AG0YA | ENTREPRENEURSHIP DEVELOPMENT AND FOOD QUALITY MANAGEMENT FOOD INDUSTRY | - | - | 3 | 0 | 0 | 3 |
| 18AG0YB | HUMAN ENGINEERING AND SAFETY IN AGRICULTURE | - | - | 3 | 0 | 0 | 3 |
| 18AG0YC | ENERGY MANGEMENT IN AGRICULTURE | - | - | 3 | 0 | 0 | 3 |
| 18AG0YD | FARM MECHANISATION | - | - | 3 | 0 | 0 | 3 |
| 18GE0C1 | CORROSION SCIENCE AND ENGINEERING | I,II,III,IV | a,b,g | 3 | 0 | 0 | 3 |
| 18GE0C2 | ENERGY STORING DEVICES | 1,11,111 | a,b | 3 | 0 | 0 | 3 |
| 18GE0C3 | POLYMER SCIENCE | 1,11,111 | a,b,c | 3 | 0 | 0 | 3 |
| 18GE0P1 | NANOMATERIALS SCIENCE | - | - | 3 | 0 | 0 | 3 |
| 18GE0P2 | SEMICONDUCTOR PHYSICS AND DEVICES | - | - | 3 | 0 | 0 | 3 |
| 18GE0P3 | APPLIED LASER SCIENCE | - | - | 3 | 0 | 0 | 3 |
| 18GE0P4 | BIO-PHOTONICS | - | - | 3 | 0 | 0 | 3 |
| 18GE0P5 | PHYSICS OF SOFT MATTER | - | - | 3 | 0 | 0 | 3 |
| 18MC0YA | INDUSTRIAL ROBOTICS | - | - | 3 | 0 | 0 | 3 |
| ADDITIONAL O | ONE CREDIT COURSE | • | • | | | | |
| 18AG0XA | OPERATION AND MAINTAINANACE OF MICRO IRRIGATION SYSTEM | 1,11,111 | a,b,c | 1 | 0 | 0 | 1 |
| 18AG0XC | TRAINING ON MAINTENANCE ASPECTS OF TRACTOR / COMBINE HARVESTER/ POWER TILLER | - | - | 1 | 0 | 0 | 1 |
| 18AG0XD | CUSTOM HIRING CENTRE | I,II,III,IV | a,b,c,d,f,h | 1 | 0 | 0 | 1 |
| 18AG0XE | AGRO PROCESSING CENTRE | 1,11,111 | a,b,e | 1 | 0 | 0 | 1 |
| 18AG0XG | MILLET PROCESSING AND COOKIES | - | - | 1 | 0 | 0 | 1 |
| 18AG0XH | COCONUT PROCESSING AND VALUE ADDITION | - | - | 1 | 0 | 0 | 1 |
| 18GE0XA | ETYMOLOGY | - | - | 1 | 0 | 0 | 1 |
| 18GE0XB | GENERAL PSYCHOLOGY | - | - | 1 | 0 | 0 | 1 |
| 18GE0XC | NEURO BEHAVIORAL SCIENCE | II,IV | i | 1 | 0 | 0 | 1 |
| 18GE0XD | VISUAL MEDIA AND FILM MAKING | I,II,III,IV | b,f | 1 | 0 | 0 | 1 |
| 18GE0XE | YOGA FOR HUMAN EXCELLENCE | - | - | 1 | 0 | 0 | 1 |
| 18GE0XF | VEDIC MATHEMATICS | - | - | 1 | 0 | 0 | 1 |
| 18GE0XG | HEALTH AND FITNESS | - | - | 1 | 0 | 0 | 1 |
| 18GE0XH | CONCEPT, METHODOLOGY AND APPLICATIONS OF VERMICOMPOSTING | - | - | 1 | 0 | 0 | 1 |
| 18GE0XI | BLOG WRITING | II,IV | f,g,j | 1 | 0 | 0 | 1 |
| 18GE0XJ | INTERPREDICALLA CIVILLO | | 1. | 1 | 0 | 0 | 1 |
| - JOLUAJ | INTERPERSONAL SKILLS | - | _ | ' ' | | | |
| 18GE0XL | NATIONAL CADET CORPS | - II,IV | g,i | 1 | 0 | 0 | 1 |
| | | - , V - | g,i - | | | 0 | 1 |
| 18GE0XL | NATIONAL CADET CORPS | - II,IV - II,IV | g,i - i | 1 | 0 | - | |
| 18GE0XL 18GE0XN | NATIONAL CADET CORPS DISRUPTIVE INNOVATION BASED STARTUP ACTIVITIES SOCIAL PSYCHOLOGY | - | g,i - i | 1 | 0 | 0 | 1 |
| 18GE0XL 18GE0XN 18GE0XO LANGUAGE E | NATIONAL CADET CORPS DISRUPTIVE INNOVATION BASED STARTUP ACTIVITIES SOCIAL PSYCHOLOGY | - | g,i - i | 1 | 0 | 0 | 1 |
| 18GE0XL 18GE0XN 18GE0XO LANGUAGE E 18HSF01 DISCIPLINE EI | NATIONAL CADET CORPS DISRUPTIVE INNOVATION BASED STARTUP ACTIVITIES SOCIAL PSYCHOLOGY LECTIVES FRENCH LECTIVES | - II,IV | - i | 1 1 1 | 0 0 0 | 0 0 | 1 1 2 |
| 18GE0XL 18GE0XN 18GE0XO LANGUAGE EI 18HSF01 DISCIPLINE EI | NATIONAL CADET CORPS DISRUPTIVE INNOVATION BASED STARTUP ACTIVITIES SOCIAL PSYCHOLOGY LECTIVES FRENCH LECTIVES BUILDING MATERIALS, ESTIMATION AND COSTING | - | g,i - i - a,b,c,d,e,g,m, | 1 1 1 | 0 0 | 0 | 1 |
| 18GE0XL 18GE0XN 18GE0XO LANGUAGE EI 18HSF01 DISCIPLINE EI 18AG001 ADDITIONAL C | NATIONAL CADET CORPS DISRUPTIVE INNOVATION BASED STARTUP ACTIVITIES SOCIAL PSYCHOLOGY LECTIVES FRENCH LECTIVES BUILDING MATERIALS, ESTIMATION AND COSTING DNE CREDIT COURSE | - II,IV | a,b,c,d,e,g,m, | 1 1 1 | 0 0 0 | 0 0 | 1 1 2 |
| 18GE0XL 18GE0XN 18GE0XO LANGUAGE EI 18HSF01 DISCIPLINE EI 18AG001 ADDITIONAL C | NATIONAL CADET CORPS DISRUPTIVE INNOVATION BASED STARTUP ACTIVITIES SOCIAL PSYCHOLOGY LECTIVES FRENCH LECTIVES BUILDING MATERIALS, ESTIMATION AND COSTING | - II,IV | - i - a,b,c,d,e,g,m, n | 1 1 1 3 | 0 0 0 | 0 0 | 2 |
| 18GE0XL 18GE0XN 18GE0XO LANGUAGE EI 18HSF01 DISCIPLINE EI 18AG001 ADDITIONAL CI | NATIONAL CADET CORPS DISRUPTIVE INNOVATION BASED STARTUP ACTIVITIES SOCIAL PSYCHOLOGY LECTIVES FRENCH LECTIVES BUILDING MATERIALS, ESTIMATION AND COSTING DNE CREDIT COURSE TRAINING THE MANUFACTURE OF AGRICULTURAL IMPLEMENTS | - II,IV - I,II,III,IV | a,b,c,d,e,g,m, | 1 1 1 3 | 0 0 0 | 0 0 0 | 3 |
| 18GE0XL 18GE0XN 18GE0XO LANGUAGE EI 18HSF01 DISCIPLINE EI 18AG001 ADDITIONAL C 18AG0XB 18AG0XF | NATIONAL CADET CORPS DISRUPTIVE INNOVATION BASED STARTUP ACTIVITIES SOCIAL PSYCHOLOGY LECTIVES FRENCH LECTIVES BUILDING MATERIALS, ESTIMATION AND COSTING ONE CREDIT COURSE TRAINING THE MANUFACTURE OF AGRICULTURAL IMPLEMENTS LANDSCAPE DESIGNING AND ARCHITECTURE | - II,IV - I,II,III,IV | - i - a,b,c,d,e,g,m, n | 1 1 3 | 0 0 0 | 0 0 0 | 3 |
| 18GE0XL 18GE0XN 18GE0XO LANGUAGE E 18HSF01 DISCIPLINE EI 18AG001 ADDITIONAL C 18AG0XB 18AG0XF 18GE0XK | NATIONAL CADET CORPS DISRUPTIVE INNOVATION BASED STARTUP ACTIVITIES SOCIAL PSYCHOLOGY LECTIVES FRENCH LECTIVES BUILDING MATERIALS, ESTIMATION AND COSTING ONE CREDIT COURSE TRAINING THE MANUFACTURE OF AGRICULTURAL IMPLEMENTS LANDSCAPE DESIGNING AND ARCHITECTURE NEW AGE INNOVATION AND ENTREPRENEURSHIP COMMUNITY SERVICE AND LEADERSHIP DEVELOPMENT | - II,IV - I,II,III,IV | - i - a,b,c,d,e,g,m, n | 1 1 1 3 | 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 | 3 |

| 18HS201 | COMMUNICATIVE ENGLISH II | I,II,III,IV | a,i,j | 1 | 0 | 2 | 2 |
|--------------------|---|----------------|------------|---|---|---|---|
| OPEN ELECTI | - | | | | | | |
| 18AE0YA | NON-DESTRUCTIVE TESTING | - | - | 3 | 0 | 0 | 3 |
| 18AE0YB | SMART MATERIALS | - | - | 3 | 0 | 0 | 3 |
| 18AE0YC | FUNDAMENTALS OF AIRCRAFT ENGINEERING | - | - | 3 | 0 | 0 | 3 |
| 18AU0YA | AUTOMOTIVE ENGINEERING | - | - | 3 | 0 | 0 | 3 |
| 18AU0YB | VEHICLE CONTROL SYSTEMS | - | - | 3 | 0 | 0 | 3 |
| 18AU0YC | PUBLIC TRANSPORT MANAGEMENT | - | - | 3 | 0 | 0 | 3 |
| 18AU0YD | TECHNOLOGIES FOR GREEN MOBILITY | - | - | 3 | 0 | 0 | 3 |
| 18AU0YE | TROUBLE SHOOTING AND MAINTENANCE OF AUTOMOBILES | - | - | 3 | 0 | 0 | 3 |
| 18BT0YA | BIOFUELS | - | - | 3 | 0 | 0 | 3 |
| 18BT0YB | MUSHROOM CULTIVATION AND VERMICOMPOSTING | - | | 3 | 0 | 0 | 3 |
| 18BT0YC 18CE0YA | FORENSIC TECHNOLOGY GREEN BUILDINGS | | - | 3 | 0 | 0 | 3 |
| 18CE0YB | DISASTER PREPAREDNESS AND PLANNING | - | - | 3 | 0 | 0 | 3 |
| 18CEOYC | ENVIRONMENTAL IMPACT ASSESSMENT | - | - | 3 | 0 | 0 | 3 |
| 18CE0YD | BUILDING SERVICES | + | | 3 | 0 | 0 | 3 |
| 18CE0YE | INDUSTRIAL WASTE MANAGEMENT | - | | 3 | 0 | 0 | 3 |
| 18CE0YF | WEALTH FROM WASTE | - | - | 3 | 0 | 0 | 3 |
| 18CE0YG | RISK AND SAFETY MANAGEMENT | - | - | 3 | 0 | 0 | 3 |
| 18CE0YH | ENERGY SCIENCE AND ENGINEERING | - | - | 3 | 0 | 0 | 3 |
| 18CE0YI | CONCEPTS OF REMOTE SENSING | - | - | 3 | 0 | 0 | 3 |
| 18CS0YA | E-LEARNING TECHNIQUES | - | - | 3 | 0 | 0 | 3 |
| 18CS0YB | SOFTWARE TESTING AND QUALITY ASSURANCE | - | - | 3 | 0 | 0 | 3 |
| 18CS0YC | JAVA FUNDAMENTALS | - | - | 3 | 0 | 0 | 3 |
| 18CS0YD | NETWORK ENGINEERING AND MANAGEMENT | - | - | 3 | 0 | 0 | 3 |
| 18CS0YE | AGENT BASED INTELLIGENT SYSTEMS | - | - | 3 | 0 | 0 | 3 |
| 18CS0YF | E-BUSINESS | - | - | 3 | 0 | 0 | 3 |
| 18CS0YG | KNOWLEDGE DISCOVERY IN DATABASES | - | - | 3 | 0 | 0 | 3 |
| 18CS0YH | SOCIAL NETWORK ANALYSIS CONCEPTS | - | - | 3 | 0 | 0 | 3 |
| 18CS0YI | OPERATING SYSTEM CONCEPTS | - | - | 3 | 0 | 0 | 3 |
| 18CS0YJ | OBJECT ORIENTED PROGRAMMING | - | - | 3 | 0 | 0 | 3 |
| 18EC0YA | BASICS OF ANALOG AND DIGITAL ELECTRONICS | - | - | 3 | 0 | 0 | 3 |
| 18EC0YB | AUTOMOTIVE ELECTRONICS | - | - | 3 | 0 | 0 | 3 |
| 18EC0YC | PCB DESIGN AND PROTOTYPING | - | - | 3 | 0 | 0 | 3 |
| 18EC0YD | MICROCONTROLLER PROGRAMMING | - | - | 3 | 0 | 0 | 3 |
| 18EC0YE | ENGINEERING COMPUTATION WITH MATLAB | - | - | 3 | 0 | 0 | 3 |
| 18EC0YF | BASICS OF HARDWARE DESCRIPTION LANGUAGES | - | - | 3 | 0 | 0 | 3 |
| 18EC0YG | FUNDAMENTALS OF EMBEDDED SYSTEMS | - | - | 3 | 0 | 0 | 3 |
| 18EC0YH | PRINCIPLES OF COMMUNICATION SYSTEMS | - | - | 3 | 0 | 0 | 3 |
| 18EC0YI | ELECTRONIC PRODUCT DESIGN AND PACKAGING | - | - | 3 | 0 | 0 | 3 |
| 18EC0YJ | PRINCIPLES OF COMPUTER COMMUNICATION AND NETWORKS | - | - | 3 | 0 | 0 | 3 |
| 18EE0YA | ENERGY CONSERVATION AND MANAGEMENT | - | - | 3 | 0 | 0 | 3 |
| 18EE0YB | ELECTRICAL SAFETY | - | - | 3 | 0 | 0 | 3 |
| 18EE0YC | INDUSTRIAL DRIVES AND CONTROL | - | - | 3 | 0 | 0 | 3 |
| 18EI0YA | PROGRAMMABLE LOGIC CONTROLLERS | - | - | 3 | 0 | 0 | 3 |
| 18EI0YB | SENSOR TECHNOLOGY | - | - | 3 | 0 | 0 | 3 |
| 18EI0YC | FUNDAMENTALS OF VIRTUAL INSTRUMENTATION | - | - | 3 | 0 | 0 | 3 |
| 18EI0YD | OPTOELECTRONICS AND LASER INSTRUMENTATION | - | - | 3 | 0 | 0 | 3 |
| 18FD0YA | TRADITIONAL FOODS | - | - | 3 | 0 | 0 | 3 |
| 18FD0YB | FOOD LAWS AND REGULATIONS | - | - | 3 | 0 | 0 | 3 |
| 18FD0YC | POST HARVEST TECHNOLOGY OF FRUITS AND VEGETABLES | - | - | 3 | 0 | 0 | 3 |
| 18FT0YA | FASHION CRAFTS | - | - | 3 | 0 | 0 | 3 |
| 18FT0YB | FASHION ACCESSORIES | - | - | 3 | 0 | 0 | 3 |
| 18FT0YC | FASHION VISUAL MERCHANDISING | - | - | 3 | 0 | 0 | 3 |
| 18FT0YD | INTERIOR DESIGN | - | - | 3 | 0 | 0 | 3 |
| 18FT0YE | SURFACE EMBELLISHMENT | - | - | 3 | 0 | 0 | 3 |
| 18GE01 | BUSINESS ANALYTICS | - | - | 3 | 0 | 0 | 3 |
| 18GE02 | INDUSTRIAL SAFETY | - | - | 3 | 0 | 0 | 3 |
| 18GE03 | OPERATIONS RESEARCH | | - | 3 | 0 | 0 | 3 |
| 18GE04 | COST MANAGEMENT OF ENGINEERING PROJECTS | <u> </u> - | - | 3 | 0 | 0 | 3 |
| 18GE05 | COMPOSITE MATERIALS | <u> </u> - | - | 3 | 0 | 0 | 3 |
| 18GE06 | WASTE TO ENERGY | 1 | 1- | 3 | 0 | 0 | 3 |
| 18ITOYA | DATABASE MANAGEMENT SYSTEMS | - | - | 3 | 0 | 0 | 3 |
| 18IT0YB | DATA SCIENCES AND ANALYTICS | 1- | <u> </u> - | 3 | 0 | 0 | 3 |
| 18IT0YC 18IT0YD | DATA SCIENCES AND ANALYTICS | | <u> </u> | 3 | 0 | 0 | 3 |
| 18IT0YD 18IT0YE | OBJECT ORIENTED PROGRAMMING ARTIFICIAL INTELLIGENCE | 1 | <u> </u> - | 3 | 0 | 0 | 3 |
| ISHUTE | ANTIFICIAL INTELLIGENCE | 1 | <u></u> | ٥ | U | | ٥ |

| 18ME0YA | INDUSTRIAL PROCESS ENGINEERING | - | - | 3 | 0 | 0 | 3 |
|---------|---|---|---|---|---|---|---|
| 18ME0YB | SAFETY ENGINEERING | - | - | 3 | 0 | 0 | 3 |
| 18ME0YC | MAINTENANCE ENGINEERING | - | - | 3 | 0 | 0 | 3 |
| 18ME0YD | BASICS OF NON-DESTRUCTIVE TESTING | - | - | 3 | 0 | 0 | 3 |
| 18ME0YE | DIGITAL MANUFACTURING | - | - | 3 | 0 | 0 | 3 |
| 18ME0YF | WORK STUDY AND ERGONOMICS | - | - | 3 | 0 | 0 | 3 |
| 18ME0YG | METROLOGY IN INDUSTRY | - | - | 3 | 0 | 0 | 3 |
| 18ME0YH | PLANT LAYOUT AND MATERIAL HANDLING | - | - | 3 | 0 | 0 | 3 |
| 18ME0YI | CONCEPTS OF ENGINEERING DESIGN | - | - | 3 | 0 | 0 | 3 |
| 18ME0YJ | OIL HYDRAULICS AND PNEUMATICS | - | - | 3 | 0 | 0 | 3 |
| 18ME0YK | ENERGY AUDITING AND MANAGEMENT | - | - | 3 | 0 | 0 | 3 |
| 18ME0YL | LEAN SIX SIGMA | - | - | 3 | 0 | 0 | 3 |
| 18ME0YM | HEATING VENTILATION AND AIRCONDITIONING | - | - | 3 | 0 | 0 | 3 |
| 18TT0YA | YARN AND FABRIC MANUFACTURE | - | - | 3 | 0 | 0 | 3 |
| 18TT0YB | COLOURATION OF TEXTILES | - | - | 3 | 0 | 0 | 3 |
| 18TT0YC | TEXTILES IN ENGINEERING APPLICATION | - | - | 3 | 0 | 0 | 3 |
| 18TT0YD | GENERAL TEXTILE TECHNOLOGY | - | - | 3 | 0 | 0 | 3 |