| First Semeste | Millimani Greatis to be Earl | ed 170.0 | | | | | |
|--|---|-----------------|--|---|--|---|---|
| | r | | | | | | |
| | | Objective | s &Outcomes | | | | Т |
| Code No. | Course | | POs | | | Р | C |
| 18EI101 | ENGINEERING MATHEMATICS I | PEOs | a,b,c | 3 | 1 | 0 | 4 |
| 18EI102 | ENGINEERING PHYSICS I | 1,11,111 | a,b,c a,b,i | 2 | 0 | 2 | 3 |
| 18EI103 | ENGINEERING CHEMISTRY I | 1,11,111 | a,b,i | 2 | 0 | 2 | 3 |
| 18EI103 | COMPUTER PROGRAMMING I | 1,11,111 | a,b,e | 2 | 0 | 2 | 3 |
| 18HS101 | COMMUNICATIVE ENGLISH I | 1,11,111 | i,j,k | 1 | 0 | 2 | 2 |
| 18EI106 | ENGINEERING GRAPHICS | 1,11,111 | a,c,e,j | 1 | 0 | 4 | 3 |
| 1011100 | ENGINEERING GRAFFIIGS | 1,11,111 | Total | 11 | 1 | 12 | 18.0 |
| Second Seme | ster | | Total | | ' | 12 | 10.0 |
| Jecona Jenie | T | T | | | | | _ |
| Code No. | Course | Objective | s &Outcomes | L | Т | Р | l c |
| | | PEOs | POs | | | | |
| 18EI201 | ENGINEERING MATHEMATICS II | 1,11 | a,b | 3 | 1 | 0 | 4 |
| 18EI202 | ENGINEERING PHYSICS II | 1,11,111 | a,b,i | 2 | 0 | 2 | 3 |
| 18EI203 | ENGINEERING CHEMISTRY II | 1,11 | a,b | 2 | 0 | 2 | 3 |
| 18EI204 | ELECTRIC CIRCUIT ANALYSIS | 1,11 | a,b,c | 3 | 1 | 0 | 4 |
| | LANGUAGE ELECTIVE | - | - | - | - | - | 2 |
| 18EI206 | COMPUTER PROGRAMMING II | 1,11 | а | 2 | 0 | 2 | 3 |
| 18EI207 | ENGINEERING PRACTICES LABORATORY | 1,11,111 | a,b,c,e,k,m | 0 | 0 | 4 | 2 |
| .02.201 | | .,, | Total | 12 | 2 | 10 | 21.0 |
| Third Semest | er | | Total | 12 | | .0 | 21.0 |
| Tima Cemest | <u> </u> | | | | | | _ |
| Code No. | Course | Objective | s &Outcomes | L | Ιт | Р | Ιc |
| | 334.33 | PEOs | POs | _ | ' | - | ` |
| 18EI301 | ENGINEERING MATHEMATICS III | 1,11 | a,b | 3 | 1 | 0 | 4 |
| 18EI302 | ELECTRICAL MACHINES AND DRIVES | 1,11 | a,b,d | 2 | 0 | 2 | 3 |
| 18EI303 | FLUID MECHANICS AND THERMO DYNAMICS | 1,11,111 | a,b,c,d,e | 3 | 1 | 0 | 4 |
| 18EI304 | ELECTRON DEVICES AND CIRCUITS | 1,11,111 | a,b,c,d,m | 3 | 1 | 0 | 4 |
| 18EI305 | DIGITAL LOGIC CIRCUITS | 1,11,111 | | 3 | 1 | 0 | 4 |
| 18EI306 | | | a,b,c,d,e,j,m | 2 | 0 | 2 | 3 |
| 18EI306 | COMPUTER PROGRAMMING III | 1,11 | a,b,d | | · | | 1 |
| 18-1307 | ELECTRON DEVICES AND CIRCUIT LABORATORY | 1,11,111 | a,b,c,d,m | 0 | 0 | 2 | |
| | | | | | · | | |
| 18El308 | FLUID MECHANICS AND THERMO DYNAMICS LABORATORY | 1,11,111 | a,b,c,d,e | 0 | 0 | 2 | 1 |
| | FLUID MECHANICS AND THERMO DYNAMICS LABORATORY SOFT SKILLS - VERBAL ABILITY | | a,b,c,d,e | 0 | 0 | 2 | 1 |
| 18El308 18GE301 | SOFT SKILLS - VERBAL ABILITY | | | 0 | 0 | 2 | 1 |
| 18El308 | SOFT SKILLS - VERBAL ABILITY | | a,b,c,d,e | 0 | 0 | 2 | 1 |
| 18El308 18GE301 Fourth Semes | SOFT SKILLS - VERBAL ABILITY | | a,b,c,d,e - Total | 0 2 18 | 0 0 4 | 2 0 8 | 1 0 24.0 |
| 18El308 18GE301 | SOFT SKILLS - VERBAL ABILITY | I,II,III | a,b,c,d,e - Total | 0 | 0 | 2 | 1 |
| 18EI308 18GE301 Fourth Semes | SOFT SKILLS - VERBAL ABILITY ter Course | Objectives PEOs | a,b,c,d,e Total s &Outcomes POs | 0 2 18 | 0 0 4 | 2 0 8 | 1 0 24.0 |
| 18EI308 18GE301 Fourth Semes Code No. | SOFT SKILLS - VERBAL ABILITY tter Course ENGINEERING MATHEMATICS IV | Objectives PEOs | a,b,c,d,e Total s &Outcomes POs a,b | 0 2 18 L | 0 0 4 T | 2 0 8 P | 1 0 24.0 C |
| 18EI308 18GE301 Fourth Semes Code No. 18EI401 18EI402 | SOFT SKILLS - VERBAL ABILITY tter Course ENGINEERING MATHEMATICS IV ELECTRICAL AND ELECTRONIC MEASUREMENTS | | a,b,c,d,e Total S &Outcomes POs a,b a,b,c,l,m | 0 2 18 L 3 | 0 0 4 T | 2 0 8 P 0 | 1 0 24.0 C 4 3 |
| 18EI308 18GE301 Fourth Semes Code No. 18EI401 18EI402 18EI403 | SOFT SKILLS - VERBAL ABILITY Ster Course ENGINEERING MATHEMATICS IV ELECTRICAL AND ELECTRONIC MEASUREMENTS CONTROL ENGINEERING | | a,b,c,d,e Total S &Outcomes POs a,b a,b,c,l,m a,c,d | 0 2 18 L 3 3 3 | 0 0 4 T 1 0 | 2 0 8 P 0 0 0 | 1 0 24.0 C 4 3 |
| 18EI308 18GE301 Fourth Semes Code No. 18EI401 18EI402 18EI403 18EI404 | Course ENGINEERING MATHEMATICS IV ELECTRICAL AND ELECTRONIC MEASUREMENTS CONTROL ENGINEERING TRANSDUCER ENGINEERING | | a,b,c,d,e Total s &Outcomes POs a,b a,b,c,l,m a,c,d a,b,c,d | 0 2 18 L 3 3 3 3 | 0 0 4 T | 2 0 8 P 0 0 0 2 | 1 0 24.0 C 4 3 4 |
| 18EI308 18GE301 Fourth Semes Code No. 18EI401 18EI402 18EI403 18EI404 18EI405 | Course ENGINEERING MATHEMATICS IV ELECTRICAL AND ELECTRONIC MEASUREMENTS CONTROL ENGINEERING TRANSDUCER ENGINEERING LINEAR INTEGRATED CIRCUITS | | a,b,c,d,e Total s &Outcomes POs a,b a,b,c,l,m a,c,d a,b,c,d a,b,c,d,e,m | 0 2 18 L 3 3 3 3 3 | 0 0 4 T 1 0 0 | 2 0 8 P 0 0 0 2 0 | 1 0 24.0 C 4 3 4 3 |
| 18EI308 18GE301 Fourth Semes Code No. 18EI401 18EI402 18EI403 18EI404 | Course ENGINEERING MATHEMATICS IV ELECTRICAL AND ELECTRONIC MEASUREMENTS CONTROL ENGINEERING TRANSDUCER ENGINEERING LINEAR INTEGRATED CIRCUITS COMMUNICATION ENGINEERING | | a,b,c,d,e Total s &Outcomes POs a,b a,b,c,l,m a,c,d a,b,c,d | 0 2 18 L 3 3 3 3 | 0 0 4 T | 2 0 8 P 0 0 0 2 | 1 0 24.0 C 4 3 4 |
| 18EI308 18GE301 Fourth Semes Code No. 18EI401 18EI402 18EI403 18EI404 18EI405 18EI406 | Course ENGINEERING MATHEMATICS IV ELECTRICAL AND ELECTRONIC MEASUREMENTS CONTROL ENGINEERING TRANSDUCER ENGINEERING LINEAR INTEGRATED CIRCUITS COMMUNICATION ENGINEERING DIGITAL LOGIC CIRCUITS AND LINEAR INTEGRATED CIRCUITS | | a,b,c,d,e Total S &Outcomes POs a,b a,b,c,l,m a,c,d a,b,c,d a,b,c,d,e,m a,b,c,d,e,m | 0 2 18 L 3 3 3 3 3 | 0 0 4 T 1 0 0 | 2 0 8 P 0 0 0 2 0 | 1 0 24.0 C 4 3 4 3 |
| 18EI308 18GE301 Fourth Semes Code No. 18EI401 18EI402 18EI403 18EI404 18EI405 18EI406 18EI407 | Course ENGINEERING MATHEMATICS IV ELECTRICAL AND ELECTRONIC MEASUREMENTS CONTROL ENGINEERING TRANSDUCER ENGINEERING LINEAR INTEGRATED CIRCUITS COMMUNICATION ENGINEERING DIGITAL LOGIC CIRCUITS AND LINEAR INTEGRATED CIRCUITS LABORATORY | | a,b,c,d,e Total s &Outcomes POs a,b a,b,c,l,m a,c,d a,b,c,d a,b,c,d,e,m a,b,c,m a,b,c,m | L 3 3 3 3 3 3 0 | T 1 0 0 0 1 0 0 0 | 2 0 8 P 0 0 2 0 0 2 2 | 1 0 24.0 C 4 3 4 4 4 |
| 18EI308 18GE301 Fourth Semes Code No. 18EI401 18EI402 18EI403 18EI404 18EI405 18EI406 18EI407 18EI408 | Course ENGINEERING MATHEMATICS IV ELECTRICAL AND ELECTRONIC MEASUREMENTS CONTROL ENGINEERING TRANSDUCER ENGINEERING LINEAR INTEGRATED CIRCUITS COMMUNICATION ENGINEERING DIGITAL LOGIC CIRCUITS AND LINEAR INTEGRATED CIRCUITS LABORATORY SENSORS AND TRANSDUCER LABORATORY | | a,b,c,d,e Total s &Outcomes POs a,b a,b,c,l,m a,c,d a,b,c,d a,b,c,d,e,m a,b,c,m a,b,d,e,k,l,m a,b,d,e,k,l,m | L 3 3 3 3 3 3 0 | T 1 0 0 0 1 0 0 0 0 0 | 2 0 8 P 0 0 2 0 0 2 2 2 2 | 1 0 24.0 C 4 3 4 3 4 1 |
| 18EI308 18GE301 Fourth Semes Code No. 18EI401 18EI402 18EI403 18EI404 18EI405 18EI406 18EI407 18EI408 18EI408 | Course Course ENGINEERING MATHEMATICS IV ELECTRICAL AND ELECTRONIC MEASUREMENTS CONTROL ENGINEERING TRANSDUCER ENGINEERING LINEAR INTEGRATED CIRCUITS COMMUNICATION ENGINEERING DIGITAL LOGIC CIRCUITS AND LINEAR INTEGRATED CIRCUITS LABORATORY SENSORS AND TRANSDUCER LABORATORY ENVIRONMENTAL SCIENCE | | a,b,c,d,e Total s &Outcomes POs a,b a,b,c,l,m a,c,d a,b,c,d a,b,c,d,e,m a,b,c,m a,b,c,m | 18 L 3 3 3 3 3 3 0 0 0 2 | 0 0 0 4 T 1 0 0 0 0 1 0 | 2 0 8 P 0 0 2 0 0 2 2 2 2 | 1 0 24.0 C 4 3 4 4 4 1 |
| 18EI308 18GE301 Fourth Semes Code No. 18EI401 18EI402 18EI403 18EI404 18EI405 18EI406 18EI407 18EI408 | Course ENGINEERING MATHEMATICS IV ELECTRICAL AND ELECTRONIC MEASUREMENTS CONTROL ENGINEERING TRANSDUCER ENGINEERING LINEAR INTEGRATED CIRCUITS COMMUNICATION ENGINEERING DIGITAL LOGIC CIRCUITS AND LINEAR INTEGRATED CIRCUITS LABORATORY SENSORS AND TRANSDUCER LABORATORY | | a,b,c,d,e Total S &Outcomes POs a,b a,b,c,l,m a,c,d a,b,c,d a,b,c,d a,b,c,d,e,m a,b,c,m a,b,c,d | 18 L 3 3 3 3 3 3 3 0 0 0 2 2 2 | 0 0 0 4 T 1 0 0 0 0 1 0 0 | 2 0 8 P 0 0 2 0 0 2 2 2 2 2 0 0 | 1 0 24.0 C 4 3 4 4 4 1 1 0 |
| 18EI308 18GE301 Fourth Semes Code No. 18EI401 18EI402 18EI403 18EI404 18EI405 18EI406 18EI407 18EI408 18HS001 18GE401 | Course ENGINEERING MATHEMATICS IV ELECTRICAL AND ELECTRONIC MEASUREMENTS CONTROL ENGINEERING TRANSDUCER ENGINEERING LINEAR INTEGRATED CIRCUITS COMMUNICATION ENGINEERING DIGITAL LOGIC CIRCUITS AND LINEAR INTEGRATED CIRCUITS LABORATORY SENSORS AND TRANSDUCER LABORATORY ENVIRONMENTAL SCIENCE SOFT SKILLS-REASONING | | a,b,c,d,e Total s &Outcomes POs a,b a,b,c,l,m a,c,d a,b,c,d a,b,c,d,e,m a,b,c,m a,b,d,e,k,l,m a,b,d,e,k,l,m | 18 L 3 3 3 3 3 3 0 0 0 2 | 0 0 0 4 T 1 0 0 0 0 1 0 | 2 0 8 P 0 0 2 0 0 2 2 2 2 | 1 0 24.0 C 4 3 4 4 4 1 |
| 18EI308 18GE301 Fourth Semes Code No. 18EI401 18EI402 18EI403 18EI404 18EI405 18EI406 18EI407 18EI408 18EI408 | Course ENGINEERING MATHEMATICS IV ELECTRICAL AND ELECTRONIC MEASUREMENTS CONTROL ENGINEERING TRANSDUCER ENGINEERING LINEAR INTEGRATED CIRCUITS COMMUNICATION ENGINEERING DIGITAL LOGIC CIRCUITS AND LINEAR INTEGRATED CIRCUITS LABORATORY SENSORS AND TRANSDUCER LABORATORY ENVIRONMENTAL SCIENCE SOFT SKILLS-REASONING | | a,b,c,d,e Total S &Outcomes POs a,b a,b,c,l,m a,c,d a,b,c,d a,b,c,d a,b,c,d,e,m a,b,c,m a,b,c,d | 18 L 3 3 3 3 3 3 3 0 0 0 2 2 2 | 0 0 0 4 T 1 0 0 0 0 1 0 0 | 2 0 8 P 0 0 2 0 0 2 2 2 2 2 0 0 | 1 0 24.0 C 4 3 4 4 4 1 1 0 |
| 18EI308 18GE301 Fourth Semes Code No. 18EI401 18EI402 18EI403 18EI404 18EI405 18EI406 18EI407 18EI408 18HS001 18GE401 | Course ENGINEERING MATHEMATICS IV ELECTRICAL AND ELECTRONIC MEASUREMENTS CONTROL ENGINEERING TRANSDUCER ENGINEERING LINEAR INTEGRATED CIRCUITS COMMUNICATION ENGINEERING DIGITAL LOGIC CIRCUITS AND LINEAR INTEGRATED CIRCUITS LABORATORY SENSORS AND TRANSDUCER LABORATORY ENVIRONMENTAL SCIENCE SOFT SKILLS-REASONING | | a,b,c,d,e Total S &Outcomes POs a,b a,b,c,l,m a,c,d a,b,c,d a,b,c,d a,b,c,d,e,m a,b,c,m a,b,c,d | 18 L 3 3 3 3 3 3 0 0 0 2 2 2 2 2 2 2 2 2 2 2 | 0 0 0 4 T 1 0 0 0 0 1 0 0 0 | 2 0 8 P 0 0 2 0 0 2 2 2 2 0 0 8 | 1 0 24.0 C 4 3 4 4 1 1 0 0 24.0 |
| 18EI308 18GE301 Fourth Semes Code No. 18EI401 18EI402 18EI403 18EI404 18EI405 18EI406 18EI407 18EI408 18HS001 18GE401 | Course ENGINEERING MATHEMATICS IV ELECTRICAL AND ELECTRONIC MEASUREMENTS CONTROL ENGINEERING TRANSDUCER ENGINEERING LINEAR INTEGRATED CIRCUITS COMMUNICATION ENGINEERING DIGITAL LOGIC CIRCUITS AND LINEAR INTEGRATED CIRCUITS LABORATORY SENSORS AND TRANSDUCER LABORATORY ENVIRONMENTAL SCIENCE SOFT SKILLS-REASONING | | a,b,c,d,e Total s &Outcomes POs a,b a,b,c,l,m a,c,d a,b,c,d,e,m a,b,c,d,e,m a,b,c,d a,b,c,d a,b,c,d a,b,c,d a,b,c,d a,b,c,d a,b,c,d a,b,c,d a,b Total | 18 L 3 3 3 3 3 3 3 0 0 0 2 2 2 | 0 0 0 4 T 1 0 0 0 0 1 0 0 | 2 0 8 P 0 0 2 0 0 2 2 2 2 2 0 0 | 1 0 24.0 C 4 3 4 4 4 1 1 0 |
| 18EI308 18GE301 Fourth Semester Code No. 18EI401 18EI402 18EI403 18EI404 18EI405 18EI406 18EI407 18EI408 18HS001 18GE401 Fifth Semester | Course Course ENGINEERING MATHEMATICS IV ELECTRICAL AND ELECTRONIC MEASUREMENTS CONTROL ENGINEERING TRANSDUCER ENGINEERING LINEAR INTEGRATED CIRCUITS COMMUNICATION ENGINEERING DIGITAL LOGIC CIRCUITS AND LINEAR INTEGRATED CIRCUITS LABORATORY SENSORS AND TRANSDUCER LABORATORY ENVIRONMENTAL SCIENCE SOFT SKILLS-REASONING | | a,b,c,d,e POs a,b a,b,c,d a,b,c,d a,b,c,d a,b,c,d a,b,c,d a,b,c,d - Total | 0 2 18 L 3 3 3 3 3 3 0 0 2 2 22 | 0 0 0 4 T 1 0 0 0 0 0 0 0 0 0 0 | 2 0 8 P 0 0 2 0 0 2 2 2 0 0 8 | 1 0 24.0 C 4 3 4 4 1 1 0 0 24.0 |
| 18EI308 18GE301 Fourth Semes Code No. 18EI401 18EI402 18EI403 18EI404 18EI405 18EI406 18EI407 18EI408 18HS001 18GE401 | Course ENGINEERING MATHEMATICS IV ELECTRICAL AND ELECTRONIC MEASUREMENTS CONTROL ENGINEERING TRANSDUCER ENGINEERING LINEAR INTEGRATED CIRCUITS COMMUNICATION ENGINEERING DIGITAL LOGIC CIRCUITS AND LINEAR INTEGRATED CIRCUITS LABORATORY SENSORS AND TRANSDUCER LABORATORY ENVIRONMENTAL SCIENCE SOFT SKILLS-REASONING | | a,b,c,d,e Total s &Outcomes POs a,b a,b,c,l,m a,c,d a,b,c,d,e,m a,b,c,d a,b,c,d,e,m a,b,c,d a,b,c,d a,b,c,d a,b,c,d a,b,c,d a,b,c,d a,b,c,d a,b,c,d a,b Total s &Outcomes POs a,b,c,l,n | 18 L 3 3 3 3 3 3 0 0 0 2 2 2 2 2 2 2 2 2 2 2 | 0 0 0 4 T 1 0 0 0 0 1 0 0 0 | 2 0 8 P 0 0 2 0 0 2 2 2 2 0 0 8 | 1 0 24.0 C 4 3 4 4 1 1 0 0 24.0 |
| 18EI308 18GE301 Fourth Semester Code No. 18EI401 18EI402 18EI403 18EI404 18EI405 18EI406 18EI407 18EI408 18HS001 18GE401 Fifth Semester | Course Course ENGINEERING MATHEMATICS IV ELECTRICAL AND ELECTRONIC MEASUREMENTS CONTROL ENGINEERING TRANSDUCER ENGINEERING LINEAR INTEGRATED CIRCUITS COMMUNICATION ENGINEERING DIGITAL LOGIC CIRCUITS AND LINEAR INTEGRATED CIRCUITS LABORATORY SENSORS AND TRANSDUCER LABORATORY ENVIRONMENTAL SCIENCE SOFT SKILLS-REASONING | | a,b,c,d,e Total s &Outcomes POs a,b a,b,c,l,m a,c,d a,b,c,d,e,m a,b,c,d a,b,c,d,e,m a,b,c,d a,b - Total | 0 2 18 L 3 3 3 3 3 3 0 0 2 2 22 | 0 0 0 4 T 1 0 0 0 0 0 0 0 0 0 0 | 2 0 8 P 0 0 2 0 0 2 2 2 0 0 8 | 1 0 24.0 C 4 3 4 4 1 1 0 0 24.0 |
| 18EI308 18GE301 Fourth Semester Code No. 18EI401 18EI402 18EI403 18EI404 18EI405 18EI406 18EI407 18EI408 18HS001 18GE401 Fifth Semester Code No. 18EI501 18EI502 | Course ENGINEERING MATHEMATICS IV ELECTRICAL AND ELECTRONIC MEASUREMENTS CONTROL ENGINEERING TRANSDUCER ENGINEERING LINEAR INTEGRATED CIRCUITS COMMUNICATION ENGINEERING DIGITAL LOGIC CIRCUITS AND LINEAR INTEGRATED CIRCUITS LABORATORY SENSORS AND TRANSDUCER LABORATORY ENVIRONMENTAL SCIENCE SOFT SKILLS-REASONING Course PROCESS CONTROL INDUSTRIAL INSTRUMENTATION -I | | a,b,c,d,e Total s &Outcomes POs a,b a,b,c,l,m a,c,d a,b,c,d a,b,c,d,e,m a,b,c,d a,b - Total | 18 L 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | 0 0 0 4 T 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 2 0 8 P 0 0 2 0 0 2 2 2 2 0 0 8 P 0 | 1 0 24.0 C 4 3 4 1 1 0 0 24.0 |
| 18EI308 18GE301 Fourth Semester Code No. 18EI401 18EI402 18EI403 18EI404 18EI405 18EI406 18EI407 18EI408 18HS001 18GE401 Fifth Semester Code No. 18EI501 18EI502 | Course ENGINEERING MATHEMATICS IV ELECTRICAL AND ELECTRONIC MEASUREMENTS CONTROL ENGINEERING TRANSDUCER ENGINEERING LINEAR INTEGRATED CIRCUITS COMMUNICATION ENGINEERING DIGITAL LOGIC CIRCUITS AND LINEAR INTEGRATED CIRCUITS LABORATORY SENSORS AND TRANSDUCER LABORATORY ENVIRONMENTAL SCIENCE SOFT SKILLS-REASONING COURSE PROCESS CONTROL INDUSTRIAL INSTRUMENTATION -I EMBEDDED SYSTEM | | a,b,c,d,e Total s &Outcomes POs a,b a,b,c,l,m a,c,d a,b,c,d,e,m a,b,c,d,e,m a,b,c,d a,b,c,d | L 3 3 3 3 3 0 0 2 2 2 2 L 3 3 3 3 | T 1 0 0 0 1 1 0 0 0 1 0 0 2 T 1 1 0 1 | 2 0 8 P 0 0 2 0 0 2 2 2 2 0 0 8 P 0 0 0 8 9 | 1 0 24.0 C 4 3 4 1 1 0 0 24.0 C |
| 18EI308 18GE301 Fourth Semester Code No. 18EI401 18EI402 18EI403 18EI404 18EI405 18EI406 18EI407 18EI408 18HS001 18GE401 Fifth Semester Code No. 18EI501 18EI502 | Course ENGINEERING MATHEMATICS IV ELECTRICAL AND ELECTRONIC MEASUREMENTS CONTROL ENGINEERING TRANSDUCER ENGINEERING LINEAR INTEGRATED CIRCUITS COMMUNICATION ENGINEERING DIGITAL LOGIC CIRCUITS AND LINEAR INTEGRATED CIRCUITS LABORATORY SENSORS AND TRANSDUCER LABORATORY ENVIRONMENTAL SCIENCE SOFT SKILLS-REASONING T Course PROCESS CONTROL INDUSTRIAL INSTRUMENTATION -I EMBEDDED SYSTEM DIGITAL SIGNAL PROCESSING | | a,b,c,d,e Total s &Outcomes POs a,b a,b,c,l,m a,c,d a,b,c,d a,b,c,d,e,m a,b,c,d a,b - Total | L 3 3 3 3 0 0 2 2 2 2 2 L 3 3 3 3 3 3 | T 1 0 0 0 1 1 0 0 0 1 1 0 0 1 1 1 1 1 | 2 0 8 P 0 0 2 0 0 2 2 2 0 0 8 P 0 0 0 8 P 0 0 | 1 0 24.0 C 4 3 4 4 1 0 0 24.0 C 4 3 4 4 4 |
| 18EI308 18GE301 Fourth Semester Code No. 18EI401 18EI402 18EI403 18EI404 18EI405 18EI406 18EI407 18EI408 18HS001 18GE401 Fifth Semester Code No. 18EI501 18EI502 | Course ENGINEERING MATHEMATICS IV ELECTRICAL AND ELECTRONIC MEASUREMENTS CONTROL ENGINEERING TRANSDUCER ENGINEERING LINEAR INTEGRATED CIRCUITS COMMUNICATION ENGINEERING DIGITAL LOGIC CIRCUITS AND LINEAR INTEGRATED CIRCUITS LABORATORY SENSORS AND TRANSDUCER LABORATORY ENVIRONMENTAL SCIENCE SOFT SKILLS-REASONING COURSE PROCESS CONTROL INDUSTRIAL INSTRUMENTATION -I EMBEDDED SYSTEM DIGITAL SIGNAL PROCESSING PROFESSIONAL ELECTIVE I | | a,b,c,d,e Total s &Outcomes POs a,b a,b,c,l,m a,c,d a,b,c,d,e,m a,b,c,d,e,m a,b,c,d a,b,c,d | L 3 3 3 3 3 0 0 2 2 2 2 2 L 3 3 3 3 - | T 1 0 0 0 1 1 0 0 0 1 0 0 1 1 0 1 1 1 1 | 2 0 8 P 0 0 2 0 0 2 2 2 0 0 8 P 0 0 0 8 P | 1 0 24.0 C 4 3 4 1 1 0 0 24.0 C 4 3 4 4 4 4 4 4 3 |
| 18EI308 18GE301 Fourth Semes Code No. 18EI401 18EI402 18EI403 18EI404 18EI405 18EI406 18EI407 18EI408 18HS001 18GE401 Fifth Semeste Code No. 18EI501 18EI502 18EI503 18EI504 | Course ENGINEERING MATHEMATICS IV ELECTRICAL AND ELECTRONIC MEASUREMENTS CONTROL ENGINEERING TRANSDUCER ENGINEERING LINEAR INTEGRATED CIRCUITS COMMUNICATION ENGINEERING DIGITAL LOGIC CIRCUITS AND LINEAR INTEGRATED CIRCUITS LABORATORY SENSORS AND TRANSDUCER LABORATORY ENVIRONMENTAL SCIENCE SOFT SKILLS-REASONING COURSE PROCESS CONTROL INDUSTRIAL INSTRUMENTATION -I EMBEDDED SYSTEM DIGITAL SIGNAL PROCESSING PROFESSIONAL ELECTIVE II PROFESSIONAL ELECTIVE II | | a,b,c,d,e Total s &Outcomes POs a,b,c,l,m a,c,d a,b,c,d,e,m a,b,c,d,e,m a,b,d,e,k,l,m a,b,c,d a,b Total s &Outcomes POs a,b,c,l,n a,b,c,d,e,m a,b,c,d,e,m a,b,c,d a,b - Total | L 3 3 3 3 3 0 0 2 2 2 2 L 3 3 3 3 | T 1 0 0 0 1 1 0 0 0 1 1 0 0 1 1 1 1 1 - | 2 0 8 P 0 0 2 2 0 0 0 2 2 2 0 0 0 8 P 0 0 | 1 0 24.0 C 4 3 4 1 1 0 0 24.0 C 4 3 4 4 4 4 4 3 4 4 3 4 4 3 4 4 3 4 4 3 4 |
| 18EI308 18GE301 Fourth Semes Code No. 18EI401 18EI402 18EI403 18EI404 18EI405 18EI406 18EI407 18EI408 18HS001 18GE401 Fifth Semeste Code No. 18EI501 18EI502 18EI503 18EI504 | Course ENGINEERING MATHEMATICS IV ELECTRICAL AND ELECTRONIC MEASUREMENTS CONTROL ENGINEERING TRANSDUCER ENGINEERING LINEAR INTEGRATED CIRCUITS COMMUNICATION ENGINEERING DIGITAL LOGIC CIRCUITS AND LINEAR INTEGRATED CIRCUITS LABORATORY SENSORS AND TRANSDUCER LABORATORY ENVIRONMENTAL SCIENCE SOFT SKILLS-REASONING COURSE PROCESS CONTROL INDUSTRIAL INSTRUMENTATION -I EMBEDDED SYSTEM DIGITAL SIGNAL PROCESSING PROFESSIONAL ELECTIVE II PROCESS CONTROL LABORATORY | | a,b,c,d,e - Total s &Outcomes POs a,b a,b,c,l,m a,c,d a,b,c,d,e,m a,b,c,d,e,m a,b,c,d a,b,c,d a,b,c,d a,b,c,d a,b,c,d a,b,c,d a,b,c,d a,b - Total s &Outcomes POs a,b,c,f,g,h,l,m,n a,b,c,d,m a,b,c,d,m a,b,c,d,m a,b,c,f,g,h,l,m,n n a,b,c,d,m a,b,c,d,m a,b,c,d,m a,b,c,d,m a,b,c,d,m a,b,c,d,m a,b,c,d,m | L 3 3 3 3 3 0 0 2 2 2 2 L 3 3 3 3 - 0 0 | T 1 0 0 0 1 1 0 0 0 1 0 0 1 1 0 1 1 1 1 | 2 0 8 P 0 0 2 2 0 0 2 2 2 0 0 0 8 8 P 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1 0 24.0 C 4 3 4 4 1 0 0 24.0 C 4 3 4 4 3 4 1 |
| 18EI308 18GE301 Fourth Semes Code No. 18EI401 18EI402 18EI403 18EI404 18EI405 18EI406 18EI407 18EI408 18HS001 18GE401 Fifth Semeste Code No. 18EI501 18EI502 18EI503 18EI504 | Course ENGINEERING MATHEMATICS IV ELECTRICAL AND ELECTRONIC MEASUREMENTS CONTROL ENGINEERING TRANSDUCER ENGINEERING LINEAR INTEGRATED CIRCUITS COMMUNICATION ENGINEERING DIGITAL LOGIC CIRCUITS AND LINEAR INTEGRATED CIRCUITS LABORATORY SENSORS AND TRANSDUCER LABORATORY ENVIRONMENTAL SCIENCE SOFT SKILLS-REASONING COURSE PROCESS CONTROL INDUSTRIAL INSTRUMENTATION -I EMBEDDED SYSTEM DIGITAL SIGNAL PROCESSING PROFESSIONAL ELECTIVE II PROFESSIONAL ELECTIVE II | | a,b,c,d,e Total s &Outcomes POs a,b,c,l,m a,c,d a,b,c,d,e,m a,b,c,d,e,m a,b,d,e,k,l,m a,b,c,d a,b Total s &Outcomes POs a,b,c,l,n a,b,c,d,e,m a,b,c,d,e,m a,b,c,d a,b - Total | L 3 3 3 3 3 0 0 2 2 2 2 L 3 3 3 3 | T 1 0 0 0 1 1 0 0 0 1 1 0 0 1 1 1 1 1 - | 2 0 8 P 0 0 2 2 0 0 0 2 2 2 0 0 0 8 P 0 0 | 1 0 24.0 C 4 3 4 4 1 0 0 24.0 C 4 3 4 4 4 4 3 4 4 3 4 4 3 4 4 3 4 4 3 4 |

| Sixth Semest | er | | | | | | |
|--|--|--------------------|---------------------------------|---|---------------------------------------|--|---|
| | | Objective | s &Outcomes | | | | |
| Code No. | Course | | | L | Т | P | C |
| | | PEOs | POs | | | | |
| 18HS003 | PRINCIPLES OF MANAGEMENT | - | - | 2 | 0 | 0 | 2 |
| 18EI602 | INDUSTRIAL INSTRUMENTATION-II | 1,11,111 | a,b,c,f,g,h,l,m, n | 3 | 0 | 0 | 3 |
| 18EI603 | INDUSTRIAL AUTOMATION | 1,11,111 | a,b,c,d,e,n | 3 | 1 | 0 | 4 |
| 18EI604 | COMPUTER CONTROL OF PROCESS | 1,11,111 | a,b,c,n | 3 | 1 | 0 | 4 |
| | PROFESSIONAL ELECTIVE III | - | - | - | • | • | 3 |
| | PROFESSIONAL ELECTIVE IV | - | - | - | • | - | 3 |
| 18El607 | INDUSTRIAL INSTRUMENTATION LABORATORY | 1,11,111 | a,b,c,d,i,m,n | 0 | 0 | 2 | 1 |
| 18El608 | INDUSTRIAL AUTOMATION LABORATORY | 1,11,111 | a,b,c,e,i,n | 0 | 0 | 2 | 1 |
| 18GE601 | SOFT SKILLS-APTITUDE II | I,II | а | 0 | 0 | 2 | 0 |
| | | | Total | 11 | 2 | 6 | 21.0 |
| Seventh Sem | ester | | | | | | |
| Code No. | Course | Objective | s &Outcomes | L | т | Р | С |
| | | PEOs | POs | | | | |
| 18HS002 | PROFESSIONAL ETHICS IN ENGINEERING | - | - | 2 | 0 | 0 | 2 |
| 18EI702 | ANALYTICAL INSTRUMENTS | 1,11,111 | a,b,c,d,e,f,g,m | 3 | 0 | 0 | 3 |
| 18EI703 | INDUSTRIAL DATA COMMUNICATION AND NETWORKS | 1,11,111 | ,n a,b,c,d,n | 3 | 0 | 0 | 3 |
| 18EI704 | BIO MEDICAL INSTRUMENTATION | 1,11,111 | a,b,c,d,e,f,g,h, | 3 | 0 | 0 | 3 |
| 1321104 | | 1,11,111 | m,n | | | | |
| | PROFESSIONAL ELECTIVE V | - | - | - | - | - | 3 |
| | PROFESSIONAL ELECTIVE VI | - | - | - | - | - | 3 |
| 18EI707 | PROCESS MODELING AND SIMULATION LABORATORY | 1,11,111 | a,b,c,d,e,n | 0 | 0 | 2 | 1 |
| 18EI708 | PROJECT WORK I | 1,11,111 | a,b,c,d,e,f,g,h, i,j,k,l,m,n | 0 | 0 | 6 | 3 |
| | • | | Total | 11 | 0 | 8 | 21.0 |
| Eight Semest | er | | | | | | |
| | _ | Objective | s &Outcomes | _ | _ | _ | _ |
| Code No. | Course | - | | L | Т | Р | С |
| | PROFESSIONAL ELECTIVE VII | PEOs | POs | | - | | 3 |
| | PROFESSIONAL ELECTIVE VIII | <u> </u> | - | - | - | | 3 |
| | PROFESSIONAL ELECTIVE VIII | <u> </u> | - | - | - | | 3 |
| 18EI804 | PROJECT WORK II | | - | 0 | 0 | | 9 |
| 1021004 | FROJECT WORKTI | I- | - | | | | |
| | | | Total | _ | | 18 18 | _ |
| Electives | | ! | Total | 0 | 0 | 18 | 18.0 |
| Electives | | Objective | | _ | | | _ |
| Electives Code No. | Course | - | s &Outcomes | _ | | | _ |
| Code No. | | Objective: PEOs | | 0 | 0 | 18 | 18.0 |
| | ELECTIVES | - | s &Outcomes | 0 | 0 | 18 | 18.0 |
| Code No. | ELECTIVES INSTRUMENTATION AND CONTROL FOR PROCESS | - | s &Outcomes | 0 | 0 | 18 | 18.0 |
| Code No. DISCIPLINE E 18EI026 | ELECTIVES INSTRUMENTATION AND CONTROL FOR PROCESS INDUSTRIES(STEEL, IRON,PAPER, SUGAR, CEMENT) | - | s &Outcomes | 0 L | T | 18 P | 18.0 C |
| Code No. DISCIPLINE E 18EI026 | INSTRUMENTATION AND CONTROL FOR PROCESS INDUSTRIES(STEEL, IRON, PAPER, SUGAR, CEMENT) COURSES INDUSTRIAL SAFETY STANDARDS FOR INSTRUMENTATION | - | s &Outcomes | 0 L | T | 18 P | 18.0 C |
| Code No. DISCIPLINE E 18E1026 ONE CREDIT | INSTRUMENTATION AND CONTROL FOR PROCESS INDUSTRIES(STEEL, IRON, PAPER, SUGAR, CEMENT) COURSES INDUSTRIAL SAFETY STANDARDS FOR INSTRUMENTATION PRODUCTS | - | s &Outcomes | 3 1 | 0 T | 18 P | 18.0 C |
| Code No. DISCIPLINE E 18E1026 ONE CREDIT 18E10XD 18E10XG | INSTRUMENTATION AND CONTROL FOR PROCESS INDUSTRIES(STEEL, IRON, PAPER, SUGAR, CEMENT) COURSES INDUSTRIAL SAFETY STANDARDS FOR INSTRUMENTATION PRODUCTS VFD BASED INDUSTRIAL APPLICATIONS | - | s &Outcomes | 3 1 | 0 T 0 0 0 0 | 18 P | 18.0 C 3 |
| Code No. DISCIPLINE E 18E1026 ONE CREDIT 18E10XD 18E10XG 18E10XH | INSTRUMENTATION AND CONTROL FOR PROCESS INDUSTRIES(STEEL, IRON,PAPER, SUGAR, CEMENT) COURSES INDUSTRIAL SAFETY STANDARDS FOR INSTRUMENTATION PRODUCTS VFD BASED INDUSTRIAL APPLICATIONS SAFETY INSTRUMENT SYSTEM DESIGN | - | s &Outcomes | 3 1 1 | 0 T O O O O O | 18 P | 18.0 C 3 |
| Code No. DISCIPLINE E 18E1026 ONE CREDIT 18E10XD 18E10XG 18E10XH 18E10XE | INSTRUMENTATION AND CONTROL FOR PROCESS INDUSTRIES(STEEL, IRON,PAPER, SUGAR, CEMENT) COURSES INDUSTRIAL SAFETY STANDARDS FOR INSTRUMENTATION PRODUCTS VFD BASED INDUSTRIAL APPLICATIONS SAFETY INSTRUMENT SYSTEM DESIGN PIPING AND INSTRUMENTATION | - | s &Outcomes | 3 1 | 0 T 0 0 0 0 | 18 P | 18.0 C 3 |
| Code No. DISCIPLINE E 18E1026 ONE CREDIT 18E10XD 18E10XG 18E10XH 18E10XE | INSTRUMENTATION AND CONTROL FOR PROCESS INDUSTRIES(STEEL, IRON,PAPER, SUGAR, CEMENT) COURSES INDUSTRIAL SAFETY STANDARDS FOR INSTRUMENTATION PRODUCTS VFD BASED INDUSTRIAL APPLICATIONS SAFETY INSTRUMENT SYSTEM DESIGN PIPING AND INSTRUMENTATION | - | s &Outcomes | 3 1 1 | 0 T O O O O O | 18 P | 18.0 C 3 |
| Code No. DISCIPLINE E 18E1026 ONE CREDIT 18E10XD 18E10XG 18E10XH 18E10XE OPEN ELECT | INSTRUMENTATION AND CONTROL FOR PROCESS INDUSTRIES(STEEL, IRON, PAPER, SUGAR, CEMENT) COURSES INDUSTRIAL SAFETY STANDARDS FOR INSTRUMENTATION PRODUCTS VFD BASED INDUSTRIAL APPLICATIONS SAFETY INSTRUMENT SYSTEM DESIGN PIPING AND INSTRUMENTATION IVES OPTOELECTRONICS AND LASER INSTRUMENTATION | - | s &Outcomes | 3 1 1 1 | 0 T 0 0 0 0 0 0 0 | 18 P 0 0 0 0 0 0 | 18.0 C 3 |
| Code No. DISCIPLINE E 18E1026 ONE CREDIT 18E10XD 18E10XG 18E10XH 18E10XE OPEN ELECT 18E10YD | INSTRUMENTATION AND CONTROL FOR PROCESS INDUSTRIES(STEEL, IRON, PAPER, SUGAR, CEMENT) COURSES INDUSTRIAL SAFETY STANDARDS FOR INSTRUMENTATION PRODUCTS VFD BASED INDUSTRIAL APPLICATIONS SAFETY INSTRUMENT SYSTEM DESIGN PIPING AND INSTRUMENTATION IVES OPTOELECTRONICS AND LASER INSTRUMENTATION | - | POs | 3 1 1 1 | 0 T 0 0 0 0 0 0 0 | 18 P 0 0 0 0 0 0 | 18.0 C 3 |
| Code No. DISCIPLINE E 18E1026 ONE CREDIT 18E10XD 18E10XG 18E10XH 18E10XE OPEN ELECT 18E10YD LANGUAGE E | INSTRUMENTATION AND CONTROL FOR PROCESS INDUSTRIES(STEEL, IRON, PAPER, SUGAR, CEMENT) COURSES INDUSTRIAL SAFETY STANDARDS FOR INSTRUMENTATION PRODUCTS VFD BASED INDUSTRIAL APPLICATIONS SAFETY INSTRUMENT SYSTEM DESIGN PIPING AND INSTRUMENTATION IVES OPTOELECTRONICS AND LASER INSTRUMENTATION ELECTIVES | PEOs | s &Outcomes | 3 1 1 1 1 1 3 | 0 | 18 P 0 0 0 0 0 0 0 | 18.0 C 3 |
| Code No. DISCIPLINE E 18E1026 ONE CREDIT 18E10XD 18E10XG 18E10XH 18E10XE OPEN ELECT 18E10YD LANGUAGE E 18HS201 | INSTRUMENTATION AND CONTROL FOR PROCESS INDUSTRIES(STEEL, IRON, PAPER, SUGAR, CEMENT) COURSES INDUSTRIAL SAFETY STANDARDS FOR INSTRUMENTATION PRODUCTS VFD BASED INDUSTRIAL APPLICATIONS SAFETY INSTRUMENT SYSTEM DESIGN PIPING AND INSTRUMENTATION IVES OPTOELECTRONICS AND LASER INSTRUMENTATION ELECTIVES COMMUNICATIVE ENGLISH II | PEOs | POs | 3 1 1 1 1 1 1 1 | 0 | 18 P 0 0 0 0 0 0 0 2 | 18.0 C 3 1 1 1 1 1 3 |
| Code No. DISCIPLINE E 18E1026 ONE CREDIT 18E10XD 18E10XG 18E10XH 18E10XE OPEN ELECT 18E10YD LANGUAGE E 18HS201 18HSC01 | INSTRUMENTATION AND CONTROL FOR PROCESS INDUSTRIES(STEEL, IRON, PAPER, SUGAR, CEMENT) COURSES INDUSTRIAL SAFETY STANDARDS FOR INSTRUMENTATION PRODUCTS VFD BASED INDUSTRIAL APPLICATIONS SAFETY INSTRUMENT SYSTEM DESIGN PIPING AND INSTRUMENTATION IVES OPTOELECTRONICS AND LASER INSTRUMENTATION ELECTIVES COMMUNICATIVE ENGLISH II CHINESE | | POs | 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 18 P 0 0 0 0 0 0 0 2 2 | 18.0 C 3 1 1 1 1 1 3 2 2 2 |
| Code No. DISCIPLINE E 18EI026 ONE CREDIT 18EI0XD 18EI0XG 18EI0XH 18EI0XE OPEN ELECT 18EI0YD LANGUAGE E 18HS201 18HSC01 18HSF01 | INSTRUMENTATION AND CONTROL FOR PROCESS INDUSTRIES(STEEL, IRON, PAPER, SUGAR, CEMENT) COURSES INDUSTRIAL SAFETY STANDARDS FOR INSTRUMENTATION PRODUCTS VFD BASED INDUSTRIAL APPLICATIONS SAFETY INSTRUMENT SYSTEM DESIGN PIPING AND INSTRUMENTATION IVES OPTOELECTRONICS AND LASER INSTRUMENTATION ELECTIVES COMMUNICATIVE ENGLISH II CHINESE FRENCH | | POs | 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 18 P 0 0 0 0 0 0 2 2 2 | 18.0 C 3 1 1 1 1 1 3 2 2 2 2 |
| Code No. DISCIPLINE E 18EI026 ONE CREDIT 18EI0XD 18EI0XH 18EI0XH 18EI0XE OPEN ELECT 18EI0YD LANGUAGE E 18HS201 18HSC01 18HSG01 | INSTRUMENTATION AND CONTROL FOR PROCESS INDUSTRIES(STEEL, IRON,PAPER, SUGAR, CEMENT) COURSES INDUSTRIAL SAFETY STANDARDS FOR INSTRUMENTATION PRODUCTS VFD BASED INDUSTRIAL APPLICATIONS SAFETY INSTRUMENT SYSTEM DESIGN PIPING AND INSTRUMENTATION IVES OPTOELECTRONICS AND LASER INSTRUMENTATION ELECTIVES COMMUNICATIVE ENGLISH II CHINESE FRENCH GERMAN | | POs | 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 18 P 0 0 0 0 0 0 2 2 2 2 2 | 18.0 C 3 1 1 1 1 1 3 2 2 2 2 2 |
| Code No. DISCIPLINE E 18E1026 ONE CREDIT 18E10XD 18E10XH 18E10XE OPEN ELECT 18E10YD LANGUAGE E 18HS201 18HSC01 18HSC01 18HSG01 18HSG01 | INSTRUMENTATION AND CONTROL FOR PROCESS INDUSTRIES(STEEL, IRON,PAPER, SUGAR, CEMENT) COURSES INDUSTRIAL SAFETY STANDARDS FOR INSTRUMENTATION PRODUCTS VFD BASED INDUSTRIAL APPLICATIONS SAFETY INSTRUMENT SYSTEM DESIGN PIPING AND INSTRUMENTATION IVES OPTOELECTRONICS AND LASER INSTRUMENTATION ELECTIVES COMMUNICATIVE ENGLISH II CHINESE FRENCH GERMAN HINDI JAPANESE | | POs | 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 18 P 0 0 0 0 0 0 2 2 2 2 2 2 | 18.0 C 3 1 1 1 1 1 3 2 2 2 2 2 2 2 |
| Code No. DISCIPLINE E 18E1026 ONE CREDIT 18E10XD 18E10XH 18E10XE OPEN ELECT 18E10YD LANGUAGE E 18HS201 18HSC01 18HSF01 18HSG01 18HSG01 18HSH01 18HSJ01 | INSTRUMENTATION AND CONTROL FOR PROCESS INDUSTRIES(STEEL, IRON,PAPER, SUGAR, CEMENT) COURSES INDUSTRIAL SAFETY STANDARDS FOR INSTRUMENTATION PRODUCTS VFD BASED INDUSTRIAL APPLICATIONS SAFETY INSTRUMENT SYSTEM DESIGN PIPING AND INSTRUMENTATION IVES OPTOELECTRONICS AND LASER INSTRUMENTATION ELECTIVES COMMUNICATIVE ENGLISH II CHINESE FRENCH GERMAN HINDI JAPANESE | | POs | 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 18 P 0 0 0 0 0 0 2 2 2 2 2 2 | 18.0 C 3 1 1 1 1 1 3 2 2 2 2 2 2 2 |
| Code No. DISCIPLINE E 18E1026 ONE CREDIT 18E10XD 18E10XH 18E10XE OPEN ELECT 18HS201 18HS201 18HSC01 18HSG01 18HSG01 18HSG01 18HSG01 18HSG01 18HSG01 18HSG01 OPEN ELECT | INSTRUMENTATION AND CONTROL FOR PROCESS INDUSTRIES(STEEL, IRON,PAPER, SUGAR, CEMENT) COURSES INDUSTRIAL SAFETY STANDARDS FOR INSTRUMENTATION PRODUCTS VFD BASED INDUSTRIAL APPLICATIONS SAFETY INSTRUMENT SYSTEM DESIGN PIPING AND INSTRUMENTATION IVES OPTOELECTRONICS AND LASER INSTRUMENTATION ELECTIVES COMMUNICATIVE ENGLISH II CHINESE FRENCH GERMAN HINDI JAPANESE | | POs | 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 18 P 0 0 0 0 0 0 2 2 2 2 2 2 | 18.0 C 3 1 1 1 1 1 1 2 2 2 2 2 2 2 2 |
| Code No. DISCIPLINE E 18E1026 ONE CREDIT 18E10XD 18E10XH 18E10XE OPEN ELECT 18E10YD LANGUAGE E 18HS201 18HSC01 18HSF01 18HSG01 18HSG01 18HSH01 18HSJ01 OPEN ELECT 18GE0P1 | INSTRUMENTATION AND CONTROL FOR PROCESS INDUSTRIES(STEEL, IRON, PAPER, SUGAR, CEMENT) COURSES INDUSTRIAL SAFETY STANDARDS FOR INSTRUMENTATION PRODUCTS VFD BASED INDUSTRIAL APPLICATIONS SAFETY INSTRUMENT SYSTEM DESIGN PIPING AND INSTRUMENTATION IVES OPTOELECTRONICS AND LASER INSTRUMENTATION ELECTIVES COMMUNICATIVE ENGLISH II CHINESE FRENCH GERMAN HINDI JAPANESE IVES NANOMATERIALS SCIENCE | | POs | 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 0 | 18 P 0 0 0 0 0 0 2 2 2 2 2 2 0 | 18.0 C 3 1 1 1 1 1 1 2 2 2 2 2 2 2 3 |
| Code No. DISCIPLINE E 18E1026 ONE CREDIT 18E10XD 18E10XG 18E10XH 18E10XE OPEN ELECT 18E10YD LANGUAGE E 18HS201 18HSC01 18HSF01 18HSF01 18HSG01 18HSH01 18HSJ01 18HSJ01 18HSJ01 18HSJ01 18HSJ01 18HSJ01 | INSTRUMENTATION AND CONTROL FOR PROCESS INDUSTRIES(STEEL, IRON, PAPER, SUGAR, CEMENT) COURSES INDUSTRIAL SAFETY STANDARDS FOR INSTRUMENTATION PRODUCTS VFD BASED INDUSTRIAL APPLICATIONS SAFETY INSTRUMENT SYSTEM DESIGN PIPING AND INSTRUMENTATION IVES OPTOELECTRONICS AND LASER INSTRUMENTATION ELECTIVES COMMUNICATIVE ENGLISH II CHINESE FRENCH GERMAN HINDI JAPANESE IVES NANOMATERIALS SCIENCE SEMICONDUCTOR PHYSICS AND DEVICES | | POs | 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 0 | 18 P 0 0 0 0 0 0 2 2 2 2 2 2 0 0 | 18.0 C 3 1 1 1 1 1 1 2 2 2 2 2 2 2 2 3 3 3 |
| Code No. DISCIPLINE E 18E1026 ONE CREDIT 18E10XD 18E10XG 18E10XH 18E10XE OPEN ELECT 18HS201 18HS201 18HSF01 18HSG01 18HSH01 18HSH01 18HSJ01 OPEN ELECT 18GE0P1 18GE0P2 18GE0P3 | INSTRUMENTATION AND CONTROL FOR PROCESS INDUSTRIES(STEEL, IRON, PAPER, SUGAR, CEMENT) COURSES INDUSTRIAL SAFETY STANDARDS FOR INSTRUMENTATION PRODUCTS VFD BASED INDUSTRIAL APPLICATIONS SAFETY INSTRUMENT SYSTEM DESIGN PIPING AND INSTRUMENTATION IVES OPTOELECTRONICS AND LASER INSTRUMENTATION ELECTIVES COMMUNICATIVE ENGLISH II CHINESE FRENCH GERMAN HINDI JAPANESE IVES NANOMATERIALS SCIENCE SEMICONDUCTOR PHYSICS AND DEVICES APPLIED LASER SCIENCE | | POs | 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 18 P 0 0 0 0 0 0 0 2 2 2 2 2 0 0 0 0 | 18.0 C 3 1 1 1 1 1 1 1 3 2 2 2 2 2 2 2 3 3 3 3 |
| Code No. DISCIPLINE E 18E1026 ONE CREDIT 18E10XD 18E10XH 18E10XE OPEN ELECT 18E10YD LANGUAGE E 18HS201 18HSC01 18HSF01 18HSG01 18HSH01 18HSJ01 OPEN ELECT 18GE0P1 18GE0P2 18GE0P3 18GE0P4 | INSTRUMENTATION AND CONTROL FOR PROCESS INDUSTRIES (STEEL, IRON, PAPER, SUGAR, CEMENT) COURSES INDUSTRIAL SAFETY STANDARDS FOR INSTRUMENTATION PRODUCTS VFD BASED INDUSTRIAL APPLICATIONS SAFETY INSTRUMENT SYSTEM DESIGN PIPING AND INSTRUMENTATION IVES OPTOELECTRONICS AND LASER INSTRUMENTATION ELECTIVES COMMUNICATIVE ENGLISH II CHINESE FRENCH GERMAN HINDI JAPANESE IVES NANOMATERIALS SCIENCE SEMICONDUCTOR PHYSICS AND DEVICES APPLIED LASER SCIENCE BIO-PHOTONICS | | POs | 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 18 P 0 0 0 0 0 0 0 2 2 2 2 2 0 0 0 0 0 | 18.0 C 3 1 1 1 1 1 3 2 2 2 2 2 2 3 3 3 3 3 |
| Code No. DISCIPLINE E 18E1026 ONE CREDIT 18E10XD 18E10XH 18E10XE OPEN ELECT 18E10YD LANGUAGE E 18HS201 18HSC01 18HSF01 18HSG01 18HSH01 18HSJ01 OPEN ELECT 18GE0P1 18GE0P2 18GE0P4 18GE0P5 | INSTRUMENTATION AND CONTROL FOR PROCESS INDUSTRIES (STEEL, IRON, PAPER, SUGAR, CEMENT) COURSES INDUSTRIAL SAFETY STANDARDS FOR INSTRUMENTATION PRODUCTS VFD BASED INDUSTRIAL APPLICATIONS SAFETY INSTRUMENT SYSTEM DESIGN PIPING AND INSTRUMENTATION IVES OPTOELECTRONICS AND LASER INSTRUMENTATION ELECTIVES COMMUNICATIVE ENGLISH II CHINESE FRENCH GERMAN HINDI JAPANESE IVES NANOMATERIALS SCIENCE SEMICONDUCTOR PHYSICS AND DEVICES APPLIED LASER SCIENCE BIO-PHOTONICS PHYSICS OF SOFT MATTER | - PEOs | s &Outcomes POs | 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 3 3 3 3 3 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 18 P 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 18.0 C 3 1 1 1 1 1 1 3 2 2 2 2 2 2 2 3 3 3 3 3 |
| DISCIPLINE E 18E1026 ONE CREDIT 18E10XD 18E10XG 18E10XH 18E10XF OPEN ELECT 18E10YD LANGUAGE E 18HS201 18HSC01 18HSF01 18HSG01 18HSH01 18HSJ01 OPEN ELECT 18GE0P1 18GE0P2 18GE0P3 18GE0P5 18GE0C1 | INSTRUMENTATION AND CONTROL FOR PROCESS INDUSTRIES (STEEL, IRON, PAPER, SUGAR, CEMENT) COURSES INDUSTRIAL SAFETY STANDARDS FOR INSTRUMENTATION PRODUCTS VFD BASED INDUSTRIAL APPLICATIONS SAFETY INSTRUMENT SYSTEM DESIGN PIPING AND INSTRUMENTATION IVES OPTOELECTRONICS AND LASER INSTRUMENTATION ELECTIVES COMMUNICATIVE ENGLISH II CHINESE FRENCH GERMAN HINDI JAPANESE IVES NANOMATERIALS SCIENCE SEMICONDUCTOR PHYSICS AND DEVICES APPLIED LASER SCIENCE BIO-PHOTONICS PHYSICS OF SOFT MATTER CORROSION SCIENCE AND ENGINEERING | - PEOs | POs POs | 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 3 3 3 3 3 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 18 P 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 18.0 C 3 1 1 1 1 1 1 3 2 2 2 2 2 2 2 2 3 3 3 3 |

| SECENTIAL COLORS | MATHEMATIC | S ELECTIVES | | | | | | |
|--|--------------|--|----------------|--|---|-----|---|-----|
| RAGEORS MATHEMATICAL FRANCE AND QUEUERS THEORY | | | - | - | 3 | 0 | 0 | 3 |
| ENTERPRENEURSHIP ELECTIVES 1,606DE1 RINERPRENEURSHIP DEVELOPMENT | 18GE0M2 | ALGEBRA AND NUMBER THEORY | - | - | 3 | 0 | 0 | 3 |
| ISBGEDET ENTREPRENUNSHIP DEVELOPMENT | 18GE0M3 | MATHEMATICAL FINANCE AND QUEUEING THEORY | - | - | 3 | 0 | 0 | 3 |
| INCEPTED NINEPPRENUENSHIP DEVELOPMENT | | | | | | | | |
| SECON MICROAF INSTRUMENTATION ILI.III | | | - | - | | | - | |
| 1985001 AIRCRAFT INSTRUMENTATION U.II. | | | - | - | 3 | 0 | 0 | 3 |
| 18E002 FIDER OPTICS AND LASER BASED INSTRUMENTATION | | | Tr ur ur | | | _ | 0 | |
| ISBEDIOS INSTRUMENTATION SYSTEM DESIGN | | | | | | | | |
| ISBEDIG STANDARDS AND CALERATION ILIII | | | | | - | | | |
| 158E005 DATA COMMUNICATION AND NETWORKS | | | | | | | | |
| 198E009 | | | | • | | | | |
| 18EI008 | 18EI006 | POWER ELECTRONICS AND DRIVES | | | | 0 | 0 | 3 |
| 18EI000 | 18EI007 | HYDRAULICS AND PNEUMATICS | 1,11,111 | a,b,c,d,n | 3 | 0 | 0 | 3 |
| 1981010 ADVANCED PROCESS CONTROL IIIII Ab.c.m.n 3 0 0 3 | 18EI008 | MICRO ELECTRO MECHANICAL SYSTEM | 1,11,111 | a,b,c,d,e,m | 3 | 0 | 0 | 3 |
| 198E011 | 18EI009 | DIGITAL CONTROL SYSTEM | 1,11,111 | a,b,c,n | 3 | 0 | 0 | 3 |
| 18E012 | | | | a,b,c,m,n | - | | | |
| 18EI013 | | | | | | | | |
| 18E014 NDUSTRIAL ROBOTICS | | | | | | | | |
| 18E01915 BUILDING AUTOMATION ILIII B.D.G.d.e.m 3 0 0 3 3 18E0101 INSTRUMENTATION IN PETROCHEMICAL INDUSTRIES I.II.III B.D.G.d.e.m 3 0 0 3 3 3 3 0 0 3 3 | | | | • | | | _ | - |
| 1981016 NSTRUMENTATION IN PETROCHEMICAL INDUSTRIES I,I,I II a.b.c.d.m. 3 0 0 3 3 188017 DOWER PLANT INSTRUMENTATION I,I,I III a.b.c.d.m. 3 0 0 0 3 3 188018 INSTRUMENTATION IN AGRICULTURE AND FOOD PROCESSING I,I,I III a.b.c.d.g.d.m 3 0 0 0 3 3 3 3 3 3 | | | | | | | | |
| 18EI017 | | | | | | | | |
| 18EI018 INSTRUMENTATION IN AGRICULTURE AND FOOD PROCESSING I.I.I.III a,b,c,d,e,g,l,m 3 0 0 3 3 18EI019 INSTRUMENTATION AND CONTROL FOR PROCESS INDUSTRIES I.I. a,b,c,d 3 0 0 3 3 18EI020 SMART AND WIRELESS INSTRUMENTATION I.I.I.III a,b,c,d,l,m 3 0 0 3 3 0 0 3 3 0 0 | | | | | | | | |
| 1981 1981 INDUSTRIES | | | | | | | | |
| 18EIQ20 SMART AND WIRELESS INSTRUMENTATION | 18EI018 | INDUSTRIES | 1,11,111 | a,b,c,d,e,g,I,m | 3 | 0 | 0 | 3 |
| 18EI021 | 18EI019 | | 1,11 | a,b,c,d | | 0 | 0 | - |
| PROGRAMMABLE LOGIC CONTROLLERS | | | 1,11,111 | a,b,c,h,i,m | | | | |
| 18EI0YA | | | - | - | 3 | 0 | 0 | 3 |
| 18EIDYB SENSOR TECHNOLOGY | | | Tr ur ur | | 2 | 0 | 0 | l 2 |
| Tabloyc | | | | | | | | |
| No. Control Tourises Calibration Control Tourises Control Tourises | | | + | | | | | |
| 18EIOXB | 18EI0YC | FUNDAMENTALS OF VIRTUAL INSTRUMENTATION | 1,11,111 | | 3 | 0 | 0 | 3 |
| 18EIOXC FACTORY AUTOMATION | | | | | | | | |
| ADDITIONAL ONE CREDIT COURSE 1860XA ETYMOLOGY - - 1 0 0 1 1 1860XB ETYMOLOGY - - 1 0 0 1 1 1860XB ETYMOLOGY - - 1 0 0 1 1 1860XB ENERAL PSYCHOLOGY - - 1 0 0 1 1 1 1 0 0 1 1 | | | | a,b,c,g,n | | | | |
| 18GE0XA | | | 1,11,111 | a,b,c,e,g,n | 1 | 0 | 0 | 1 |
| 18GE0XB GENERAL PSYCHOLOGY | | | | | 4 | 0 | 0 | 1 |
| 18GEOXC NEURO BEHAVIORAL SCIENCE | | | ļ- | - | 1 | | | |
| 18GE0XD | | | - | i | | _ ` | | _ |
| 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 HEALTH AND FITNESS - - 1 0 0 1 18GE0XH CONCEPT, METHODOLOGY AND APPLICATIONS OF VERMICOMPOSTING III f 1 0 0 1 18GE0XH BLOG WRITING I,I,I,III f,g,j 1 0 0 1 18GE0XJ INTERPERSONAL SKILLS - - 1 0 0 1 18GE0XK NEW AGE INNOVATION AND ENTREPRENEURSHIP II,III g,i 1 0 0 1 18GE0XK NATIONAL CADET CORPS II,III g,i 1 0 0 1 18GE0XM COMMUNITY SERVICE AND LEADERSHIP DEVELOPMENT - 1 0 0 1 18GE0XN DISRUPTIVE INNOVATION BASED STARTUP ACTIVITIES - 1 0 0 1 18GE0XD SOCIAL PSYCHOLOGY III i 1 0 0 1 18GE0XP FM RADIO BROADCASTING TECHNOLOGY - 1 0 0 1 18GE0XP VIRTUAL INSTRUMENTATION IN INDUSTRIAL AUTOMATION I,II,III a,b,e,n 1 0 0 1 OPEN ELECTIVES - 3 0 0 3 18AE0YB SMART MATERIALS - 3 0 0 3 18AE0YG ENTERPRENEURSHIP DEVELOPMENT AND FOOD QUALITY - 3 0 0 3 18AGOYA HUMAN ENGINEERING AND SAFETY IN AGRICULTURE - 3 0 0 3 18AGOYB HUMAN ENGINEERING AND SAFETY IN AGRICULTURE - 3 0 0 3 18AGOYD FARM MECHANISATION - - 3 0 0 3 18AUOYA AUTOMOTIVE ENGINEERING - - 3 0 0 3 18AUOYA AUTOMOTIVE ENGINEERING - - 3 0 0 3 | | | | h f | | | | |
| 18GEOXG | | | - | - | - | | | |
| 18GE0XH CONCEPT, METHODOLOGY AND APPLICATIONS OF VERMICOMPOSTING III | | | - | - | | | | |
| 18GEUXH VERMICOMPOSTING | 18GE0XG | HEALTH AND FITNESS | - | - | 1 | 0 | 0 | 1 |
| 18GEOXI BLOG WRITING | 18GF0XH | | III | f | 1 | n | n | 1 |
| 18GEOXJ INTERPERSONAL SKILLS | | | | <u> </u> | · | | | |
| 18GEOXK NEW AGE INNOVATION AND ENTREPRENEURSHIP II,III g,i 1 0 0 1 | | | 1,11,111 | r,g,j | | | _ | |
| 18GEOXL NATIONAL CADET CORPS II,III g,i 1 0 0 1 | | | - | - a i | | | _ | |
| 18GEOXM COMMUNITY SERVICE AND LEADERSHIP DEVELOPMENT - - 1 0 0 1 18GEOXN DISRUPTIVE INNOVATION BASED STARTUP ACTIVITIES - - 1 0 0 1 18GEOXO SOCIAL PSYCHOLOGY III II II I 1 0 0 1 18GEOXP FM RADIO BROADCASTING TECHNOLOGY - - 1 0 0 1 ONE CREDIT COURSES | | | | - | | _ | | |
| 18GEOXN DISRUPTIVE INNOVATION BASED STARTUP ACTIVITIES - - 1 0 0 1 18GEOXO SOCIAL PSYCHOLOGY IIII i 1 0 0 1 18GEOXP FM RADIO BROADCASTING TECHNOLOGY - - 1 0 0 1 ONE CREDIT COURSES 18EIOXA VIRTUAL INSTRUMENTATION IN INDUSTRIAL AUTOMATION I,II,III a,b,e,n 1 0 0 1 OPEN ELECTIVES 18AE0YA NON-DESTRUCTIVE TESTING - - 3 0 0 3 18AE0YB SMART MATERIALS - - 3 0 0 3 18AE0YC FUNDAMENTALS OF AIRCRAFT ENGINEERING - - 3 0 0 3 18AG0YA ENTREPRENEURSHIP DEVELOPMENT AND FOOD QUALITY MANAGEMENT FOOD INDUSTRY - - 3 0 0 3 18AG0YB HUMAN ENGINEERING AND SAFETY IN AGRICULTURE - - 3 0 0 3 | | | - | ع,· - | | _ | _ | |
| 18GE0XO SOCIAL PSYCHOLOGY III | | | - | - | | _ | _ | |
| ONE CREDIT COURSES 18EI0XA VIRTUAL INSTRUMENTATION IN INDUSTRIAL AUTOMATION I,II,III a,b,e,n 1 0 0 1 OPEN ELECTIVES 18AE0YA NON-DESTRUCTIVE TESTING - - - 3 0 0 3 18AE0YB SMART MATERIALS - - - 3 0 0 3 18AE0YC FUNDAMENTALS OF AIRCRAFT ENGINEERING - - - 3 0 0 3 18AG0YA ENTREPRENEURSHIP DEVELOPMENT AND FOOD QUALITY MANAGEMENT FOOD INDUSTRY - - - 3 0 0 3 18AG0YB HUMAN ENGINEERING AND SAFETY IN AGRICULTURE - - - 3 0 0 3 18AG0YD FARM MECHANISATION - - 3 0 0 3 18AU0YA AUTOMOTIVE ENGINEERING - - - 3 0 0 3 | | | III | i | | | _ | |
| 18EI0XA VIRTUAL INSTRUMENTATION IN INDUSTRIAL AUTOMATION I,II,III a,b,e,n 1 0 0 1 | 18GE0XP | FM RADIO BROADCASTING TECHNOLOGY | - | - | 1 | 0 | 0 | 1 |
| OPEN ELECTIVES 18AE0YA NON-DESTRUCTIVE TESTING - - 3 0 0 3 18AE0YB SMART MATERIALS - - - 3 0 0 3 18AE0YC FUNDAMENTALS OF AIRCRAFT ENGINEERING - - - 3 0 0 3 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 18AU0YA AUTOMOTIVE ENGINEERING - - 3 0 0 3 | ONE CREDIT O | COURSES | | | | | | |
| 18AE0YA NON-DESTRUCTIVE TESTING - - 3 0 0 3 18AE0YB SMART MATERIALS - - - 3 0 0 3 18AE0YC FUNDAMENTALS OF AIRCRAFT ENGINEERING - - - 3 0 0 3 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 18AU0YA AUTOMOTIVE ENGINEERING - - - 3 0 0 3 | | | 1,11,111 | a,b,e,n | 1 | 0 | 0 | 1 |
| 18AE0YB SMART MATERIALS - - 3 0 0 3 18AE0YC FUNDAMENTALS OF AIRCRAFT ENGINEERING - - - 3 0 0 3 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 18AU0YA AUTOMOTIVE ENGINEERING - - 3 0 0 3 | | | | | | | | |
| 18AE0YC FUNDAMENTALS OF AIRCRAFT ENGINEERING - - 3 0 0 3 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 18AU0YA AUTOMOTIVE ENGINEERING - - 3 0 0 3 | | | - | - | | _ | _ | |
| 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 18AU0YA AUTOMOTIVE ENGINEERING - - 3 0 0 3 | | | - | - | | _ | _ | |
| 18AGOYA MANAGEMENT FOOD INDUSTRY - - - 3 0 0 3 18AGOYB HUMAN ENGINEERING AND SAFETY IN AGRICULTURE - - - 3 0 0 3 18AGOYC ENERGY MANGEMENT IN AGRICULTURE - - - 3 0 0 3 18AGOYD FARM MECHANISATION - - - 3 0 0 3 18AU0YA AUTOMOTIVE ENGINEERING - - 3 0 0 3 | 18AE0YC | | - | - | 3 | U | U | 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 18AU0YA AUTOMOTIVE ENGINEERING - - 3 0 0 3 | 18AG0YA | | - | - | 3 | 0 | 0 | 3 |
| 18AG0YD FARM MECHANISATION - - - 3 0 0 3 18AU0YA AUTOMOTIVE ENGINEERING - - - 3 0 0 3 | 18AG0YB | | - | - | 3 | 0 | 0 | 3 |
| 18AU0YA AUTOMOTIVE ENGINEERING - - 3 0 0 3 | | ENERGY MANGEMENT IN AGRICULTURE | - | - | | 0 | 0 | 3 |
| | 18AG0YD | FARM MECHANISATION | - | - | 3 | 0 | 0 | 3 |
| 18AU0YB VEHICLE CONTROL SYSTEMS 3 0 0 3 | 18AU0YA | | | - | 3 | 0 | 0 | - |
| | 18AU0YB | VEHICLE CONTROL SYSTEMS | - | - | 3 | 0 | 0 | 3 |

| 4041107/0 | DUDU IO TRANCRORT MANIA CEMENT | 1 | 1 | _ | _ | _ | |
|--|---|----------------|------------------|---|---|---|---|
| 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 |
| | | ļ . | <u>-</u> | - | | - | |
| 18BT0YC | FORENSIC TECHNOLOGY | - | - | 3 | 0 | 0 | 3 |
| 18CE0YA | GREEN BUILDINGS | - | - | 3 | 0 | 0 | 3 |
| 18CE0YB | DISASTER PREPAREDNESS AND PLANNING | 1- | - | 3 | 0 | 0 | 3 |
| 18CE0YC | ENVIRONMENTAL IMPACT ASSESSMENT | 1_ | _ | 3 | 0 | 0 | 3 |
| | | <u> </u> | <u> </u> | - | | - | - |
| 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 | 1. | - | 3 | 0 | 0 | 3 |
| | | | | | | _ | |
| 18CE0YH | ENERGY SCIENCE AND ENGINEERING | - | <u> </u> | 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 |
| | | <u> </u> | | | | | - |
| 18CS0YD | NETWORK ENGINEERING AND MANAGEMENT | - | - | 3 | 0 | 0 | 3 |
| 18CS0YE | AGENT BASED INTELLIGENT SYSTEMS | - | - | 3 | 0 | 0 | 3 |
| 18CS0YF | E-BUSINESS | 1- | ļ- | 3 | 0 | 0 | 3 |
| 18CS0YG | KNOWLEDGE DISCOVERY IN DATABASES | 1. | | 3 | 0 | 0 | 3 |
| | | + | | - | | | - |
| 18CS0YH | SOCIAL NETWORK ANALYSIS CONCEPTS | - | | 3 | 0 | 0 | 3 |
| 18CS0YI | OPERATING SYSTEM CONCEPTS | - | <u>-</u> | 3 | 0 | 0 | 3 |
| 18CS0YJ | OBJECT ORIENTED PROGRAMMING | - | - | 3 | 0 | 0 | 3 |
| 18EC0YA | BASICS OF ANALOG AND DIGITAL ELECTRONICS | 1- | <u> </u> | 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 | 1- | - | 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 | 1_ | _ | 3 | 0 | 0 | 3 |
| | | <u> </u> | <u> </u> | | | | |
| 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 |
| 18FD0YA | TRADITIONAL FOODS | - | | 3 | 0 | 0 | 3 |
| | | | | _ | - | _ | 3 |
| | FOOD LAWS AND REGULATIONS | - | | 3 | 0 | 0 | |
| 18FD0YC | POST HARVEST TECHNOLOGY OF FRUITS AND VEGETABLES | - | - | 3 | 0 | 0 | 3 |
| 18FT0YA | FASHION CRAFTS | - | - | 3 | 0 | 0 | 3 |
| 18FT0YB | FASHION ACCESSORIES | 1- | - | 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 | 1. | - | 3 | 0 | 0 | 3 |
| | | + | | | | | |
| 18GE03 | OPERATIONS RESEARCH | - | - | 3 | 0 | 0 | 3 |
| 18GE04 | COST MANAGEMENT OF ENGINEERING PROJECTS | 1- | <u> </u> | 3 | 0 | 0 | 3 |
| 100505 | | <u></u> | | | 0 | 0 | 3 |
| 18GE05 | COMPOSITE MATERIALS | - | - | 3 | 0 1 | | |
| 18GE05 18GE06 | COMPOSITE MATERIALS | - | - | 3 | 0 | 0 | 3 |
| 18GE06 | COMPOSITE MATERIALS WASTE TO ENERGY | - | - | 3 | 0 | | |
| 18GE06 18IT0YA | COMPOSITE MATERIALS WASTE TO ENERGY DATABASE MANAGEMENT SYSTEMS | - | - | 3 | 0 | 0 | 3 |
| 18GE06 18IT0YA 18IT0YB | COMPOSITE MATERIALS WASTE TO ENERGY DATABASE MANAGEMENT SYSTEMS DATA STRUCTURES AND ALGORITHMS | - | - - - | 3 3 | 0 0 | 0 | 3 |
| 18GE06 18IT0YA | COMPOSITE MATERIALS WASTE TO ENERGY DATABASE MANAGEMENT SYSTEMS | - | - - - - | 3 | 0 | 0 | 3 |
| 18GE06 18IT0YA 18IT0YB | COMPOSITE MATERIALS WASTE TO ENERGY DATABASE MANAGEMENT SYSTEMS DATA STRUCTURES AND ALGORITHMS | - | - - - - | 3 3 | 0 0 | 0 | 3 |
| 18GE06 18IT0YA 18IT0YB 18IT0YC 18IT0YD | COMPOSITE MATERIALS WASTE TO ENERGY DATABASE MANAGEMENT SYSTEMS DATA STRUCTURES AND ALGORITHMS DATA SCIENCES AND ANALYTICS OBJECT ORIENTED PROGRAMMING | - | - | 3 3 3 3 | 0 0 0 0 | 0 0 0 | 3 3 3 |
| 18GE06 18IT0YA 18IT0YB 18IT0YC 18IT0YD 18IT0YE | COMPOSITE MATERIALS WASTE TO ENERGY DATABASE MANAGEMENT SYSTEMS DATA STRUCTURES AND ALGORITHMS DATA SCIENCES AND ANALYTICS OBJECT ORIENTED PROGRAMMING ARTIFICIAL INTELLIGENCE | - | - | 3 3 3 3 3 3 | 0 0 0 0 0 0 | 0 0 0 0 | 3 3 3 3 |
| 18GE06 18IT0YA 18IT0YB 18IT0YC 18IT0YD 18IT0YE 18ME0YA | COMPOSITE MATERIALS WASTE TO ENERGY DATABASE MANAGEMENT SYSTEMS DATA STRUCTURES AND ALGORITHMS DATA SCIENCES AND ANALYTICS OBJECT ORIENTED PROGRAMMING ARTIFICIAL INTELLIGENCE INDUSTRIAL PROCESS ENGINEERING | - | - | 3 3 3 3 3 3 | 0 0 0 0 0 | 0 0 0 0 0 | 3 3 3 3 3 3 |
| 18GE06 18IT0YA 18IT0YB 18IT0YC 18IT0YD 18IT0YE | COMPOSITE MATERIALS WASTE TO ENERGY DATABASE MANAGEMENT SYSTEMS DATA STRUCTURES AND ALGORITHMS DATA SCIENCES AND ANALYTICS OBJECT ORIENTED PROGRAMMING ARTIFICIAL INTELLIGENCE | - | - | 3 3 3 3 3 3 | 0 0 0 0 0 0 | 0 0 0 0 | 3 3 3 3 |
| 18GE06 18IT0YA 18IT0YB 18IT0YC 18IT0YD 18IT0YE 18ME0YA | COMPOSITE MATERIALS WASTE TO ENERGY DATABASE MANAGEMENT SYSTEMS DATA STRUCTURES AND ALGORITHMS DATA SCIENCES AND ANALYTICS OBJECT ORIENTED PROGRAMMING ARTIFICIAL INTELLIGENCE INDUSTRIAL PROCESS ENGINEERING | - | - | 3 3 3 3 3 3 | 0 0 0 0 0 | 0 0 0 0 0 | 3 3 3 3 3 3 |
| 18GE06 18IT0YA 18IT0YB 18IT0YC 18IT0YD 18IT0YE 18ME0YA 18ME0YB | COMPOSITE MATERIALS WASTE TO ENERGY DATABASE MANAGEMENT SYSTEMS DATA STRUCTURES AND ALGORITHMS DATA SCIENCES AND ANALYTICS OBJECT ORIENTED PROGRAMMING ARTIFICIAL INTELLIGENCE INDUSTRIAL PROCESS ENGINEERING SAFETY ENGINEERING MAINTENANCE ENGINEERING | - | - | 3 3 3 3 3 3 3 3 3 | 0 0 0 0 0 0 | 0 0 0 0 0 0 | 3 3 3 3 3 3 3 3 |
| 18GE06 18IT0YA 18IT0YB 18IT0YC 18IT0YD 18IT0YE 18ME0YA 18ME0YB 18ME0YC 18ME0YD | COMPOSITE MATERIALS WASTE TO ENERGY DATABASE MANAGEMENT SYSTEMS DATA STRUCTURES AND ALGORITHMS DATA SCIENCES AND ANALYTICS OBJECT ORIENTED PROGRAMMING ARTIFICIAL INTELLIGENCE INDUSTRIAL PROCESS ENGINEERING SAFETY ENGINEERING MAINTENANCE ENGINEERING BASICS OF NON-DESTRUCTIVE TESTING | - | - | 3 3 3 3 3 3 3 3 3 | 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 | 3 3 3 3 3 3 3 3 3 3 |
| 18GE06 18IT0YA 18IT0YB 18IT0YC 18IT0YD 18IT0YE 18ME0YA 18ME0YB 18ME0YC 18ME0YD 18ME0YE | COMPOSITE MATERIALS WASTE TO ENERGY DATABASE MANAGEMENT SYSTEMS DATA STRUCTURES AND ALGORITHMS DATA SCIENCES AND ANALYTICS OBJECT ORIENTED PROGRAMMING ARTIFICIAL INTELLIGENCE INDUSTRIAL PROCESS ENGINEERING SAFETY ENGINEERING MAINTENANCE ENGINEERING BASICS OF NON-DESTRUCTIVE TESTING DIGITAL MANUFACTURING | | - | 3 3 3 3 3 3 3 3 3 3 | 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 | 3 3 3 3 3 3 3 3 3 3 |
| 18GE06 18IT0YA 18IT0YB 18IT0YC 18IT0YD 18IT0YE 18ME0YA 18ME0YB 18ME0YC 18ME0YD | COMPOSITE MATERIALS WASTE TO ENERGY DATABASE MANAGEMENT SYSTEMS DATA STRUCTURES AND ALGORITHMS DATA SCIENCES AND ANALYTICS OBJECT ORIENTED PROGRAMMING ARTIFICIAL INTELLIGENCE INDUSTRIAL PROCESS ENGINEERING SAFETY ENGINEERING MAINTENANCE ENGINEERING BASICS OF NON-DESTRUCTIVE TESTING | | - | 3 3 3 3 3 3 3 3 3 | 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 | 3 3 3 3 3 3 3 3 |
| 18GE06 18IT0YA 18IT0YB 18IT0YC 18IT0YD 18IT0YE 18ME0YA 18ME0YB 18ME0YC 18ME0YD 18ME0YE | COMPOSITE MATERIALS WASTE TO ENERGY DATABASE MANAGEMENT SYSTEMS DATA STRUCTURES AND ALGORITHMS DATA SCIENCES AND ANALYTICS OBJECT ORIENTED PROGRAMMING ARTIFICIAL INTELLIGENCE INDUSTRIAL PROCESS ENGINEERING SAFETY ENGINEERING MAINTENANCE ENGINEERING BASICS OF NON-DESTRUCTIVE TESTING DIGITAL MANUFACTURING | | - | 3 3 3 3 3 3 3 3 3 3 | 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 | 3 3 3 3 3 3 3 3 3 |
| 18GE06 18IT0YA 18IT0YB 18IT0YC 18IT0YD 18IT0YE 18ME0YA 18ME0YB 18ME0YC 18ME0YD 18ME0YF | COMPOSITE MATERIALS WASTE TO ENERGY DATABASE MANAGEMENT SYSTEMS DATA STRUCTURES AND ALGORITHMS DATA SCIENCES AND ANALYTICS OBJECT ORIENTED PROGRAMMING ARTIFICIAL INTELLIGENCE INDUSTRIAL PROCESS ENGINEERING SAFETY ENGINEERING MAINTENANCE ENGINEERING BASICS OF NON-DESTRUCTIVE TESTING DIGITAL MANUFACTURING WORK STUDY AND ERGONOMICS | | - | 3 3 3 3 3 3 3 3 3 3 3 3 | 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 | 3 3 3 3 3 3 3 3 3 3 |
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| 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 |
| ISCIPLINE | ELECTIVES | | | | | | |
| 18EI022 | INTERNET OF THINGS | - | - | 3 | 0 | 0 | 3 |
| 18EI023 | SYSTEM IDENTIFICATION | - | - | 3 | 0 | 0 | 3 |
| 18EI024 | POWER PLANT INSTRUMENTATION | - | - | 3 | 0 | 0 | 3 |
| 18EI025 | INSTRUMENTATION IN AGRICULTURE FOOD PROCESSING INDUSTRIES | - | - | 3 | 0 | 0 | 3 |