



B. Tech. Program (Electronics & Telecommunication Engineering) (DJS22 Scheme)

SEM III

| Sr. No | Course code | Course | Teaching Scheme (hrs.) | | | | Continuous Assessment (A) (marks) | | | Semester End Assessment (B) (marks) | | | | | (A+B) | Total Credits |
|---------------------|-------------|---|------------------------|-----------|----------|-----------|-----------------------------------|------------|--------------|-------------------------------------|-----------|----------|-----------|--------------|------------|---------------|
| | | | Th | P | T | Credits | Th | T/W | Total CA (A) | Th | O | P | O&P | Total SEA(B) | | |
| Semester III | | | | | | | | | | | | | | | | |
| 1 | DJS22EC301 | Engineering Mathematics – III | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 |
| | DJS22ET301 | Engineering Mathematics – III Tutorial | - | - | 2 | 1 | - | 25 | 25 | - | - | - | - | - | 25 | |
| 2 | DJS22EC302 | Electronics Circuit Design | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 |
| | DJS22EL302 | Electronics Circuit Design Laboratory | - | 2 | - | 1 | - | 25 | 25 | - | - | - | 25 | 25 | 50 | |
| 3 | DJS22EC303 | Digital System Design | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 |
| | DJS22EL303 | Digital System Design Laboratory | - | 2 | - | 1 | - | 25 | 25 | - | - | - | 25 | 25 | 50 | |
| 4 | DJS22EC304 | Signals & Systems | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 |
| | DJS22EL304 | Signals & Systems Laboratory | - | 2 | - | 1 | - | 25 | 25 | - | 25 | - | - | 25 | 50 | |
| 5 | DJS22EL305 | Electric Networks Analysis & Synthesis Laboratory | - | 2 | - | 1 | - | 25 | 25 | - | - | - | - | - | 25 | 1 |
| 6 | DJS22EL306 | Python Programming Laboratory | - | 2 | - | 1 | - | 25 | 25 | - | - | - | 25 | 25 | 50 | 1 |
| 7 | DJS22IHC1 | Universal Human Values | 2 | - | - | 2 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 3 |
| | DJS22IHT1 | Universal Human Values Tutorial | - | - | 1 | 1 | - | 25 | 25 | - | - | - | - | - | 25 | |
| 8 | DJS22ILLA1 | Innovative Product Development-I | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total | | | 14 | 10 | 3 | 21 | 175 | 175 | 350 | 325 | 25 | 0 | 75 | 425 | 775 | 21 |

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SEM IV

| Sr. No | Course code | Course | Teaching Scheme (hrs.) | | | | Continuous Assessment (A) (marks) | | | Semester End Assessment (B) (marks) | | | | | (A+B) | Total Credits |
|--------------------|-------------|---|------------------------|-----------|----------|-----------|-----------------------------------|------------|--------------|-------------------------------------|----------|----------|-----------|--------------|------------|---------------|
| | | | Th | P | T | Credits | Th | T/W | Total CA (A) | Th | O | P | O&P | Total SEA(B) | | |
| Semester IV | | | | | | | | | | | | | | | | |
| 1 | DJS22EC401 | Engineering Mathematics – IV | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 |
| | DJS22ET401 | Engineering Mathematics – IV Tutorial | - | - | 2 | 1 | - | 25 | 25 | - | - | - | - | - | 25 | |
| 2 | DJS22EC402 | Integrated Circuits | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 |
| | DJS22EL402 | Integrated Circuits Laboratory | - | 2 | - | 1 | - | 25 | 25 | - | - | - | 25 | 25 | 50 | |
| 3 | DJS22EC403 | Electromagnetic Wave Propagation | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 |
| | DJS22EL403 | Electromagnetic Wave Propagation Laboratory | - | 2 | - | 1 | - | 25 | 25 | - | - | - | - | - | 25 | |
| 4 | DJS22EC404 | Microcontroller & Applications-I | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 |
| | DJS22EL404 | Microcontroller & Applications-I Laboratory | - | 2 | - | 1 | - | 25 | 25 | - | - | - | 25 | 25 | 50 | |
| 5 | DJS22EL405 | Data Analytics Laboratory | - | 2 | - | 1 | - | 25 | 25 | - | - | - | - | - | 25 | 1 |
| 6 | DJS22EL406 | Database Management System Laboratory | - | 2 | - | 1 | - | 25 | 25 | - | - | - | - | - | 25 | 1 |
| 7 | DJS22A2 | Constitution of India | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8 | DJS22ILLA2 | Innovative Product Development-II | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total | | | 13 | 10 | 2 | 18 | 140 | 150 | 290 | 260 | 0 | 0 | 50 | 310 | 600 | 18 |

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SEM V

| Sr. No | Course code | Course | Teaching Scheme (hrs.) | | | | Continuous Assessment (A) (marks) | | | Semester End Assessment (B) (marks) | | | | | (A+B) | Total Credits |
|-------------------|-------------|--|------------------------|-----------|----------|-----------|-----------------------------------|------------|--------------|-------------------------------------|-----------|----------|------------|--------------|------------|---------------|
| | | | Th | P | T | Credits | Th | T/W | Total CA (A) | Th | O | P | O&P | Total SEA(B) | | |
| Semester v | | | | | | | | | | | | | | | | |
| 1 | DJS22EC501 | Analog Communication | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 |
| | DJS22ET501 | Analog Communication Laboratory | - | 2 | - | 1 | - | 25 | 25 | - | - | - | 25 | 25 | 50 | |
| 2 | DJS22EC502 | Radio Frequency Circuit Design | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 |
| | DJS22EL502 | Radio Frequency Circuit Design Laboratory | - | 2 | - | 1 | - | 25 | 25 | - | 25 | - | - | 25 | 50 | |
| 3 | DJS22EC503 | Microcontroller & Applications-II | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 |
| | DJS22EL503 | Microcontroller & Applications-II Laboratory | - | 2 | - | 1 | - | 25 | 25 | - | - | - | 25 | 25 | 50 | |
| 4 | DJS22EC504 | Digital Signal Processing | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 |
| | DJS22EL504 | Digital Signal Processing Laboratory | - | 2 | - | 1 | - | 25 | 25 | - | 25 | - | - | 25 | 50 | |
| 5 | DJS22EC505 | Data Structures & Algorithms | 1 | - | - | 1 | - | - | - | - | - | - | - | - | - | 2 |
| 6 | DJS22EL505 | Data Structures & Algorithms Laboratory | - | 2 | - | 1 | - | 25 | 25 | - | - | - | 25 | 25 | 25 | |
| 7 | DJS22A3 | Environmental Engineering | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8 | DJS22ILLL1 | Innovative Product Development-III | - | 2 | - | 1 | - | 25 | 25 | - | - | - | 25 | 25 | 50 | 1 |
| Total | | | 14 | 12 | - | 19 | 140 | 150 | 290 | 260 | 50 | 0 | 100 | 410 | 700 | 19 |

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SEM VI

| Sr. No | Course code | Course | Teaching Scheme (hrs.) | | | Continuous Assessment (A) (marks) | | | Semester End Assessment (B) (marks) | | | | | (A+B) | Total Credits | |
|--------------------|-------------|---|------------------------|-----------|----------|-----------------------------------|------------|------------|-------------------------------------|------------|------------|----------|-----------|------------|---------------|--------------|
| | | | Th | P | T | Credits | Th | T/W | Total CA (A) | Th | O | P | O&P | | | Total SEA(B) |
| Semester VI | | | | | | | | | | | | | | | | |
| 1 | DJS22EC601 | Digital Communication | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 |
| | DJS22ET601 | Digital Communication Laboratory | | 2 | - | 1 | - | 25 | 25 | - | 25 | - | - | 25 | 50 | |
| 2 | DJS22EC602 | Radiating Systems | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 |
| | DJS22EL602 | Radiating Systems Laboratory | | 2 | - | 1 | - | 25 | 25 | - | 25 | - | - | 25 | 50 | |
| 3 | DJS22EC603 | Computer Networks | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 |
| | DJS22EL603 | Computer Networks Laboratory | | 2 | - | 1 | - | 25 | 25 | - | 25 | - | - | 25 | 50 | |
| 4 | DJS22EC604 | Fundamentals of Digital Image Processing | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 |
| | DJS22EL604 | Fundamentals of Digital Image Processing Laboratory | | 2 | - | 1 | - | 25 | 25 | - | 25 | - | - | 25 | 50 | |
| 5 | DJS22EC6011 | Basic VLSI | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 |
| | DJS22EL6011 | Basic VLSI Laboratory | | 2 | - | 1 | - | 25 | 25 | - | 25 | - | - | 25 | 50 | |
| | DJS22EC6012 | Control Systems | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 |
| | DJS22EL6012 | Control Systems Laboratory | | 2 | - | 1 | - | 25 | 25 | - | 25 | - | - | 25 | 50 | |
| | DJS22EC6013 | Neural Network & Fuzzy Logic | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 |
| | DJS22EL6013 | Neural Network & Fuzzy Logic Laboratory | | 2 | - | 1 | - | 25 | 25 | - | 25 | - | - | 25 | 50 | |
| | DJS22EC6014 | Operating Systems | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 |
| | DJS22EL6014 | Operating Systems Laboratory | | 2 | - | 1 | - | 25 | 25 | - | 25 | - | - | 25 | 50 | |
| | DJS22EC6015 | Big Data Analytics | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 |
| | DJS22EL6015 | Big Data Analytics Laboratory | | 2 | - | 1 | - | 25 | 25 | - | 25 | - | - | 25 | 50 | |
| | DJS22EC6016 | Radar Engineering | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 |
| | DJS22EL6016 | Radar Engineering Laboratory | | 2 | - | 1 | - | 25 | 25 | - | 25 | - | - | 25 | 50 | |
| | DJS22EC6017 | Linear Algebra | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 |
| | DJS22EL6017 | Linear Algebra Laboratory | | 2 | - | 1 | - | 25 | 25 | - | 25 | - | - | 25 | 50 | |
| 7 | DJS22IHL | Professional & Business Communication Laboratory | - | 2 | - | 1 | - | 25 | 25 | - | - | - | - | 25 | 1 | |
| 8 | DJS22ILLL2 | Innovative Product Development-IV | - | 2 | - | 1 | - | 25 | 25 | - | - | - | 25 | 25 | 50 | 1 |
| Total | | | 15 | 14 | - | 22 | 175 | 175 | 350 | 325 | 125 | 0 | 25 | 475 | 825 | 22 |

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SEM VII

| Sr. No | Course code | Course | Teaching Scheme (hrs.) | | | | Continuous Assessment (A) (marks) | | | Semester End Assessment (B) (marks) | | | | | (A+B) | Total Credits |
|---------------------|--------------|---|------------------------|-----------|----------|-----------|-----------------------------------|------------|--------------|-------------------------------------|------------|----------|-----------|--------------|------------|---------------|
| | | | Th | P | T | Credits | Th | T/W | Total CA (A) | Th | O | P | O&P | Total SEA(B) | | |
| Semester VII | | | | | | | | | | | | | | | | |
| 1 | DJS22EC701 | Microwave Engineering | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 |
| | DJS22EL701 | Microwave Engineering Laboratory | | 2 | - | 1 | - | 25 | 25 | - | 25 | - | - | 25 | 50 | |
| 2 | DJS22EC702 | Mobile Communication System | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 |
| | DJS22EL702 | Mobile Communication System Laboratory | | 2 | - | 1 | - | 25 | 25 | - | 25 | - | - | 25 | 50 | |
| 3 | DJS22EC703 | Internet of Things | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 |
| | DJS22EL703 | Internet of Things Laboratory | | 2 | - | 1 | - | 25 | 25 | - | 25 | - | - | 25 | 50 | |
| 4 | DJS22EC7011 | Artificial Intelligence & Machine Learning | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 |
| | DJS22EL7011 | Artificial Intelligence & Machine Learning Laboratory | | 2 | - | 1 | - | 25 | 25 | - | 25 | - | - | 25 | 50 | |
| | DJS22EC7012 | Robotics | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 |
| | DJS22EL7012 | Robotics Laboratory | | 2 | - | 1 | - | 25 | 25 | - | 25 | - | - | 25 | 50 | |
| | DJS22EC7013 | Power Electronics | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 |
| | DJS22EL7013 | Power Electronics Laboratory | | 2 | - | 1 | - | 25 | 25 | - | 25 | - | - | 25 | 50 | |
| | DJS22EC7014 | Data Compression & Encryption | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 |
| | DJS22EL7014 | Data Compression & Encryption Laboratory | | 2 | - | 1 | - | 25 | 25 | - | 25 | - | - | 25 | 50 | |
| | DJS22EC7015 | Speech Processing | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 |
| | DJS22EL7015 | Speech Processing Laboratory | | 2 | - | 1 | - | 25 | 25 | - | 25 | - | - | 25 | 50 | |
| | DJS22EC7016 | Embedded Systems | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 |
| | DJS22EL7016 | Embedded Systems Laboratory | | 2 | - | 1 | - | 25 | 25 | - | 25 | - | - | 25 | 50 | |
| | DJS22EC7017 | Advanced VLSI | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 |
| | DJS22EL7017 | Advanced VLSI Laboratory | | 2 | - | 1 | - | 25 | 25 | - | 25 | - | - | 25 | 50 | |
| 5 | DJS22ILO70XX | Institute Professional Elective | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 3 |
| 6 | DJS22EL704 | Industrial Automation Laboratory | - | 2 | - | 1 | - | 25 | 25 | - | - | - | - | - | 25 | 1 |
| 7 | DJS22ECP701 | Project Stage – I | - | 6 | - | 2 | - | 50 | 50 | - | - | - | 50 | 50 | 100 | 2 |
| Total | | | 15 | 16 | 0 | 22 | 175 | 175 | 350 | 325 | 100 | 0 | 50 | 475 | 825 | 22 |

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B. Tech. Program (Electronics & Telecommunication Engineering) (DJS22 Scheme)

SEM VIII

| Sr. No | Course code | Course | Teaching Scheme (hrs.) | | | | Continuous Assessment (A) (marks) | | | Semester End Assessment (B) (marks) | | | | | (A+B) | Total Credits | |
|----------------------|-------------|--|---------------------------------|-----------|----------|-----------|-----------------------------------|------------|--------------|-------------------------------------|------------|----------|----------|--------------|------------|---------------|---|
| | | | Th | P | T | Credits | Th | T/W | Total CA (A) | Th | O | P | O&P | Total SEA(B) | | | |
| Semester VIII | | | | | | | | | | | | | | | | | |
| 1 | DJS22EC801 | Optical Communication | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 | |
| | DJS22EL801 | Optical Communication Laboratory | | 2 | - | 1 | - | 25 | 25 | - | 25 | - | - | 25 | 50 | | |
| 2 | DJS22EC802 | Wireless Network | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 | |
| | DJS22EL802 | Wireless Network Laboratory | | 2 | - | 1 | - | 25 | 25 | - | 25 | - | - | 25 | 50 | | |
| 3 | DJS22EC8011 | 5G Technology | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 | |
| | DJS22EL8011 | 5G Technology Laboratory | | 2 | - | 1 | - | 25 | 25 | - | 25 | - | - | 25 | 50 | | |
| | DJS22EC8012 | Computer Vision | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 | |
| | DJS22EL8012 | Computer Vision Laboratory | | 2 | - | 1 | - | 25 | 25 | - | 25 | - | - | 25 | 50 | | |
| | DJS22EC8013 | Satellite Communication | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 | |
| | DJS22EL8013 | Satellite Communication Laboratory | | 2 | - | 1 | - | 25 | 25 | - | 25 | - | - | 25 | 50 | | |
| | DJS22EC8014 | Internet Engineering & Network Security | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 | |
| | DJS22EL8014 | Internet Engineering & Network Security Laboratory | | 2 | - | 1 | - | 25 | 25 | - | 25 | - | - | 25 | 50 | | |
| | DJS22EC8015 | Machine Learning for Signal Processing | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 | |
| | DJS22EL8015 | Machine Learning for Signal Processing Laboratory | | 2 | - | 1 | - | 25 | 25 | - | 25 | - | - | 25 | 50 | | |
| | DJS22EC8016 | Advanced Digital Signal Processing | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 | |
| | DJS22EL8016 | Advanced Digital Signal Processing Laboratory | | 2 | - | 1 | - | 25 | 25 | - | 25 | - | - | 25 | 50 | | |
| | DJS22EC8017 | Microwave Amplifier & Oscillator Design | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 4 | |
| | DJS22EL8017 | Microwave Amplifier & Oscillator Design Laboratory | | 2 | - | 1 | - | 25 | 25 | - | 25 | - | - | 25 | 50 | | |
| | 4 | DJS22ILO80XX | Institute Professional Elective | 3 | - | - | 3 | 35 | - | 35 | 65 | - | - | - | 65 | 100 | 3 |
| | 5 | DJS22ECP801 | Project Stage – II | - | 10 | - | 5 | - | 100 | 100 | - | 100 | - | - | 100 | 200 | 5 |
| Total | | | 12 | 16 | 0 | 20 | 140 | 175 | 315 | 260 | 175 | 0 | 0 | 435 | 750 | 20 | |

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Domain wise distribution of courses

