

SHRI G S INSTITUTE OF TECHNOLOGY & SCIENCE, INDORE
I.M.E. ELECTRONICS AND COMMUNICATIONS ENGINEERING

SEMESTER - I

| S. No. | Sub. Code | Subject | Hours per Week | | | Th. Credit | Pr. Credit | Maximum Marks | | | | |
|--------|-------------|---|----------------|---|---|------------|------------|---------------|-----|----|-------|-------|
| | | | L | T | P | | | TH | CW | SW | Pr. | Total |
| 1 | MA65004 | Linear Algebra, Probability theory and Optimization | 3 | 1 | 0 | 4 | 0 | 70 | 30 | 0 | 0 | 100 |
| 2 | EC65005 | Wireless and Mobile Communication | 3 | 0 | 0 | 3 | 0 | 70 | 30 | 0 | 0 | 100 |
| 3 | EC65006 | Modern Communication Networks | 3 | 0 | 0 | 3 | 0 | 70 | 30 | 0 | 0 | 100 |
| 4 | ELECTIVE I | | 3 | 0 | 0 | 3 | 0 | 70 | 30 | 0 | 0 | 100 |
| 5 | ELECTIVE II | | 3 | 0 | 0 | 3 | 0 | 70 | 30 | 0 | 0 | 100 |
| 6 | EC65453 | Advanced Communication Lab | 0 | 0 | 4 | 0 | 2 | 0 | 0 | 40 | 60 | 100 |
| 7 | EC65454 | Network Design and Simulation Lab | 0 | 0 | 4 | 0 | 2 | 0 | 0 | 40 | 60 | 100 |
| 8 | EC65500 | Comprehensive Viva | - | - | - | - | - | - | - | - | Grade | Grade |
| Total | | | 15 | 1 | 8 | 16 | 4 | 350 | 150 | 80 | 120 | 700 |

SEMESTER - II

| S. No. | Sub. Code | Subject | Hours per Week | | | Th. Credit | Pr. Credit | Maximum Marks | | | | |
|--------|--------------|-------------------------------------|----------------|---|---|------------|------------|---------------|-----|-----|-------|-------|
| | | | L | T | P | | | TH | CW | SW | Pr. | Total |
| 1 | EC65504 | SDR and Cognitive Radio | 3 | 0 | 0 | 3 | 0 | 70 | 30 | 0 | 0 | 100 |
| 2 | EC65505 | Advanced Antenna Theory & Design | 3 | 0 | 0 | 3 | 0 | 70 | 30 | 0 | 0 | 100 |
| 3 | EC65506 | Internet of Things | 3 | 0 | 0 | 3 | 0 | 70 | 30 | 0 | 0 | 100 |
| 4 | ELECTIVE III | | 3 | 0 | 0 | 3 | 0 | 70 | 30 | 0 | 0 | 100 |
| 5 | ELECTIVE IV | | 3 | 0 | 0 | 3 | 0 | 70 | 30 | 0 | 0 | 100 |
| 6 | EC65853 | Sensor Networks and IoT Lab | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 40 | 60 | 100 |
| 7 | EC65854 | Antenna Testing and Measurement Lab | 0 | 0 | 4 | 0 | 2 | 0 | 0 | 40 | 60 | 100 |
| 8 | EC65882 | Minor Project/Seminar | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 100 | - | 100 |
| 9 | EC65900 | Comprehensive Viva | - | - | - | - | - | - | - | - | Grade | Grade |
| Total | | | 15 | 0 | 8 | 15 | 4 | 350 | 150 | 180 | 120 | 800 |

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List of Electives

| Elective I | | Semester I |
|---------------------|----------------|---|
| S.No | Sub. Code | Subject |
| 1 | EC65205 | Information Theory and Coding |
| 2 | IT65206 | Artificial Intelligence and Machine Learning |
| Elective II | | Semester I |
| S.No | Sub. Code | Subject |
| 1 | EC65306 | Voice and Data Networks |
| 2 | EC65307 | Game Theory in Wireless Communication |
| 3 | EC65308 | Advanced Digital Signal Processing |
| Elective III | | Semester II |
| S.No | Sub. Code | Subject |
| 1 | EC65707 | Embedded Systems |
| 2 | EC65708 | Optical Networks |
| Elective IV | | Semester II |
| S.No | Sub. Code | Subject |
| 1 | EC65758 | Cryptography & E-Security |
| 2 | EC65759 | Markov chains and Queuing System |

SHRI G S INSTITUTE OF TECHNOLOGY & SCIENCE, INDORE
II M.E. ELECTRONICS AND COMMUNICATIONS ENGINEERING

SEMESTER - III

| S. No. | Sub. Code | Subject | Hours per Week | | | Th. Credit | Pr. Credit | Maximum Marks | | | | |
|--------|-----------|----------------------|----------------|---|----|------------|------------|---------------|----|-----|-----|-------|
| | | | L | T | P | | | TH | CW | SW | Pr. | Total |
| 1 | EC65901 | Dissertation Phase-I | - | - | 20 | - | 20 | - | - | 100 | 150 | 250 |
| Total | | | 0 | 0 | 20 | 0 | 20 | 0 | 0 | 100 | 150 | 250 |

SEMESTER - IV

(Admitted before 2012)

| S. No. | Sub. Code | Subject | Hours per Week | | | Th. Credit | Pr. Credit | Maximum Marks | | | | |
|--------|-----------|-----------------------|----------------|---|----|------------|------------|---------------|----|-----|-----|-------|
| | | | L | T | P | | | TH | CW | SW | Pr. | Total |
| 1 | EC 6596 | Dissertation Phase-II | - | - | 22 | - | 22 | - | - | 160 | 240 | 400 |
| Total | | | 0 | 0 | 22 | 0 | 22 | 0 | 0 | 160 | 240 | 400 |

(Admitted in 2012-2016)

| S. No. | Sub. Code | Subject | Hours per Week | | | Th. Credit | Pr. Credit | Maximum Marks | | | | |
|--------|-----------|-----------------------|----------------|---|----|------------|------------|---------------|----|-----|-----|-------|
| | | | L | T | P | | | TH | CW | SW | Pr. | Total |
| 1 | EC 6594 | Dissertation Phase-II | - | - | 30 | - | 30 | - | - | 160 | 240 | 400 |
| Total | | | 0 | 0 | 30 | 0 | 30 | 0 | 0 | 160 | 240 | 400 |

(Admitted in and after 2017)

| S. No. | Sub. Code | Subject | Hours per Week | | | Th. Credit | Pr. Credit | Maximum Marks | | | | |
|--------|-----------|-----------------------|----------------|---|----|------------|------------|---------------|----|-----|-----|-------|
| | | | L | T | P | | | TH | CW | SW | Pr. | Total |
| 1 | EC65951 | Dissertation Phase-II | - | - | 30 | - | 30 | - | - | 160 | 240 | 400 |
| Total | | | 0 | 0 | 30 | 0 | 30 | 0 | 0 | 160 | 240 | 400 |