

Shri G.S. Institute of Technology & Science, Indore
Electronics & Instrumentation Engineering Department
B.Tech

Batch : 2017-21

Academic Year 2018-19

II Year/ III Sem

| S.no. | Category | Subject Code | Subject Name | Period/Week | | | Maximum Marks | | | | Credits | | Total Credits | Total Marks |
|----------------------------|----------|--------------|--------------------------------|--------------------------|----------|----------|---------------|------------|------------|------------|-----------|----------|---------------|-------------|
| | | | | L | T | P | Theory | | Practical | | T | P | | |
| | | | | | | | End Sem | CW | End Sem | SW | | | | |
| 1 | DC-1 | EI27001 | Circuit Analysis & Synthesis | 4 | | 2 | 70 | 30 | 60 | 40 | 3 | 1 | 4 | 200 |
| 2 | DC-2 | EI27002 | Fundamentals of Measurement | 4 | | 2 | 70 | 30 | 60 | 40 | 3 | 1 | 4 | 200 |
| 3 | DC-3 | EI27003 | Electronics Devices & circuits | 4 | | 2 | 70 | 30 | 60 | 40 | 3 | 1 | 4 | 200 |
| 4 | DC-4 | EI27004 | Signals & Systems | 4 | | | 70 | 30 | | | 3 | | 3 | 100 |
| 5 | BSC-3 | MA27014 | Mathematics-III | 4 | 1 | | 70 | 30 | | | 4 | | 4 | 100 |
| 6 | HU | HU27005 | Economics for Engineers | 4 | | | 70 | 30 | | | 3 | | 3 | 100 |
| 7 | DLC-1 | EI27498 | Electronics Workshop | | | 2 | | | 60 | 40 | | 1 | 1 | 100 |
| Total | | | | 24 | 1 | 8 | 420 | 180 | 240 | 160 | 19 | 4 | 23 | 1000 |
| Optional Subject(s) | | | | | | | | | | | | | | |
| 8 | | OC-I | Open Category-I (Audit Only) | Instrumentation Workshop | | | | | | | | | | |

II Year/ IV Sem

| S.no. | Category | Subject Code | Subject Name | Period/Week | | | Maximum Marks | | | | Credits | | Total Credits | Total Marks |
|----------------------------|----------|--------------|--|-------------|----------|-----------|---------------|------------|------------|------------|-----------|----------|---------------|-------------|
| | | | | L | T | P | Theory | | Practical | | T | P | | |
| | | | | | | | End Sem | CW | End Sem | SW | | | | |
| 1 | DC-5 | EC27503 | Electromagnetic Fields & waves | 4 | | | 70 | 30 | | | 3 | | 3 | 100 |
| 2 | DC-6 | EI27501 | Analog electronics | 4 | | 2 | 70 | 30 | 60 | 40 | 3 | 1 | 4 | 200 |
| 3 | DC-7 | EI27551 | Sensors & Transducers | 4 | | 2 | 70 | 30 | 60 | 40 | 3 | 1 | 4 | 200 |
| 4 | DC-8 | EI27562 | Digital Electronics | 4 | | 2 | 70 | 30 | 60 | 40 | 3 | 1 | 4 | 200 |
| 5 | BSC-4 | MA27563 | Mathematics-IV | 4 | 1 | | 70 | 30 | | | 4 | | 4 | 100 |
| 6 | HU | HU27505 | Values, Humanities & professional Ethics | | 3 | | | 100 | | | 2 | | 2 | 100 |
| 7 | DLC-2 | EI27992 | Software Workshop | | | 4 | | | 60 | 40 | | 2 | 2 | 100 |
| Total | | | | 20 | 4 | 10 | 350 | 250 | 240 | 160 | 18 | 5 | 23 | 1000 |
| Optional Subject(s) | | | | | | | | | | | | | | |
| 8 | | OC-II | Open Category-II (Audit Only) | EDA tool | | | | | | | | | | |

Shri G.S. Institute of Technology & Science, Indore
Electronics & Instrumentation Engineering Department
B.Tech

Batch : 2016-20

Academic Year 2018-19

III Year/ V Sem

| S.no. | Category | Subject Code | Subject Name | Period/Week | | | Maximum Marks | | | | Credits | | Total Credits | Total Marks |
|----------------------------|----------|--------------|-------------------------------------|----------------------------|----------|-----------|---------------|------------|------------|------------|-----------|----------|---------------|-------------|
| | | | | L | T | P | Theory | | Practical | | T | P | | |
| | | | | | | | End Sem | CW | End Sem | SW | | | | |
| 1 | DC-9 | EI37004 | Peripherals & Interfacing | 4 | 1 | 2 | 70 | 30 | 60 | 40 | 4 | 1 | 5 | 200 |
| 2 | DC-10 | EI37002 | Microprocessor Systems | 4 | 1 | 2 | 70 | 30 | 60 | 40 | 4 | 1 | 5 | 200 |
| 3 | DC-11 | EE37003 | Control Systems | 4 | | 2 | 70 | 30 | 60 | 40 | 3 | 1 | 4 | 200 |
| 4 | DC-12 | EC37014 | Analog & Digital Communication | 4 | | | 70 | 30 | | | 3 | | 3 | 100 |
| 5 | DC-13 | IP37021 | Industrial Engineering & Management | 4 | | | 70 | 30 | | | 3 | | 3 | 100 |
| 6 | DLC-3 | EI37451 | Test & Calibration | | | 4 | | | 60 | 40 | | 2 | 2 | 100 |
| Total | | | | 20 | 2 | 10 | 350 | 150 | 240 | 160 | 17 | 5 | 22 | 900 |
| Optional Subject(s) | | | | | | | | | | | | | | |
| 7 | | OC-III | Open Category-III (Audit Only) | Analytical Instrumentation | | | | | | | | | | |

III Year/ VI Sem

| S.no. | Category | Subject Code | Subject Name | Period/Week | | | Maximum Marks | | | | Credits | | Total Credits | Total Marks |
|----------------------------|----------|--------------|-------------------------------|-------------------------|----------|-----------|---------------|------------|------------|------------|-----------|----------|---------------|-------------|
| | | | | L | T | P | Theory | | Practical | | T | P | | |
| | | | | | | | End Sem | CW | End Sem | SW | | | | |
| 1 | DC-14 | EI37501 | Filter Design & Simulation | 4 | 1 | 2 | 70 | 30 | 60 | 40 | 4 | 1 | 5 | 200 |
| 2 | DC-15 | EI37503 | High Frequency Engineering | 4 | | | 70 | 30 | | | 4 | | 4 | 100 |
| 3 | DC-16 | EC37562 | Digital Signal Processing | 4 | | | 70 | 30 | | | 3 | | 3 | 100 |
| 4 | DC-17 | ME37502 | Mechanical Measurements | 4 | | 2 | 70 | 30 | 60 | 40 | 3 | 1 | 4 | 200 |
| 5 | PEC | | Elective-I | 4 | | 2 | 70 | 30 | 60 | 40 | 3 | 1 | 4 | 200 |
| 6 | DLC-5 | EI37951 | Electronic System Design | | | 4 | | | 60 | 40 | | 2 | 2 | 100 |
| Total | | | | 20 | 1 | 10 | 350 | 150 | 240 | 160 | 17 | 5 | 22 | 900 |
| Optional Subject(s) | | | | | | | | | | | | | | |
| 7 | | OC-IV | Open Category-IV (Audit Only) | Standards & calibration | | | | | | | | | | |

Shri G.S. Institute of Technology & Science, Indore
Electronics & Instrumentation Engineering Department
B.Tech

Batch : 2015-19
 Academic Year 2018-19

IV Year/ VII Sem

| S.no. | Category | Subject Code | Subject Name | Period/Week | | | Maximum Marks | | | | Credits | | Total Credits | Total Marks |
|------------------------------|----------|--------------|----------------------------|-------------|----------|-----------|---------------|------------|------------|------------|-----------|----------|---------------|-------------|
| | | | | L | T | P | Theory | | Practical | | T | P | | |
| | | | | | | | End Sem | CW | End Sem | SW | | | | |
| 1 | DC-17 | EI47053 | Process Instrumentation | 4 | 1 | 2 | 70 | 30 | 60 | 40 | 4 | 1 | 5 | 200 |
| | DC-18 | BM47001 | Medical Instrumentation | 4 | | 2 | 70 | 30 | 60 | 40 | 3 | 1 | 4 | 200 |
| 2 | DC-19 | EE47002 | Power Electronics | 4 | | 2 | 70 | 30 | 60 | 40 | 3 | 1 | 4 | 200 |
| 4 | DC-20 | EI47257 | Fiber Optics and Photonics | 4 | | | 70 | 30 | | | 3 | | 3 | 100 |
| 5 | PEC | | Elective -II | 4 | | | 70 | 30 | | | 3 | | 3 | 100 |
| 7 | DLC-7 | EI47499 | Major Project-I(AB Group) | | | 6 | | | 60 | 40 | | 3 | 3 | 100 |
| | DLC-8 | EI47999 | Major Project-II(BA Group) | | | 10 | | | 60 | 40 | | 5 | 5 | 100 |
| Total (With AB Group) | | | | 20 | 1 | 12 | 350 | 150 | 240 | 160 | 16 | 6 | 22 | 900 |
| Total (With BA Group) | | | | 20 | 1 | 16 | 350 | 150 | 240 | 160 | 16 | 8 | 24 | 900 |

IV Year/ VIII Sem

| S.no. | Category | Subject Code | Subject Name | Period/Week | | | Maximum Marks | | | | Credits | | Total | Total Marks |
|------------------------------|------------|--------------|--|-------------|----------|-----------|---------------|-----------|-----------|------------|----------|-----------|-----------|-------------|
| | | | | L | T | P | Theory | | Practical | | T | P | | |
| | | | | | | | End Sem | CW | End Sem | SW | | | | |
| 1 | DC-21 | EI47655 | VLSI Design | 4 | | 2 | 70 | 30 | 60 | 40 | 3 | 1 | 4 | 200 |
| 2 | DC-21 | | Elective -III | 4 | | | 70 | 30 | | | 3 | | 3 | 100 |
| 3 | Internship | EI47881 | Industrial Training/ Internship (min 6 week/seminar with report) | | | | | | | 100 | | 8 | 8 | 100 |
| 4 | DLC-8 | EI47999 | Major Project-II(AB Group) | | | 10 | | | 60 | 40 | | 5 | 5 | 100 |
| 5 | DLC-7 | EI47499 | Major Project-I(BA Group) | | | 6 | | | 60 | 40 | | 3 | 3 | 100 |
| Total (With AB Group) | | | | 8 | 0 | 10 | 140 | 60 | 60 | 140 | 6 | 13 | 19 | 400 |
| Total (With BA Group) | | | | 8 | 0 | 6 | 140 | 60 | 60 | 140 | 6 | 11 | 17 | 400 |

List of Electives from V to VIII Semester

| Semester VII | | |
|--------------|---------|--------------------------------|
| Elective-II | | |
| 1 | EI47322 | VLSI Technology |
| 2 | EI47321 | Aeronautical Instrumentation |
| 3 | EI47323 | Applied Robotics |
| 4 | EI47324 | Digital Measurement Techniques |

| Semester VIII | | |
|---------------|---------|-------------------------------|
| Elective-III | | |
| 1 | EI47776 | Automation in Instrumentation |
| 2 | EI47771 | Data Acquisition Systems |
| 3 | EI47772 | Nuclear Instrumentation |