

**Course structure for 3-year 6-semester Part Time M. Tech. course in  
Instrumentation & Control Engineering,  
w. e. f. the academic year 2014 - 2015**

**Semester I Examination**

**Theoretical**

| PAPER NO. | SUBJECT                                    | PERIODS per week |   |    | EVALUATION SCHEME |    |     |       | CREDITS |
|-----------|--|------------------|---|----|-------------------|----|-----|-------|---------|
|           |  | L                | T | P  | TA                | CT | ESE | TOTAL |         |
| MIT11     | Computational Methods                      | 4                | - | -  | 20                | 10 | 70  | 100   | 4       |
| MIT12     | Biomedical Measurement and Instrumentation | 4                | - | -- | 20                | 10 | 70  | 100   | 4       |

**Practical**

| PAPER NO. | SUBJECT   | PERIODS per week |   |   | EVALUATION SCHEME |    |     |       | CREDITS |
|-----------|---|------------------|---|---|-------------------|----|-----|-------|---------|
|           |   | L                | T | P | TA                | CT | ESE | TOTAL |         |
| MIP11     | Advanced Measurement and Biomedical Instrumentation | -                | 1 | 7 | 50                |    | 50  | 100   | 4       |

**Semester II Examination**

**Theoretical**

| PAPER NO. | SUBJECT          | PERIODS per week |   |   | EVALUATION SCHEME |    |     |       | CREDITS |
|-----------|------------------|------------------|---|---|-------------------|----|-----|-------|---------|
|           |                  | L                | T | P | TA                | CT | ESE | TOTAL |         |
| MIT21     | Embedded Systems | 4                | - | - | 20                | 10 | 70  | 100   | 4       |
| MIT22     | Elective Paper I | 4                | - | - | 20                | 10 | 70  | 100   | 4       |

**Practical**

| PAPER NO. | SUBJECT              | PERIODS per week |   |   | EVALUATION SCHEME |    |     |       | CREDITS |
|-----------|----------------------|------------------|---|---|-------------------|----|-----|-------|---------|
|           |                      | L                | T | P | TA                | CT | ESE | TOTAL |         |
| MIP21     | Embedded Systems Lab | -                | 1 | 7 | 50                |    | 50  | 100   | 4       |

**Semester III Examination**

**Theoretical**

| PAPER NO. | SUBJECT                                    | PERIODS per week |   |    | EVALUATION SCHEME |    |     |       | CREDITS |
|-----------|--|------------------|---|----|-------------------|----|-----|-------|---------|
|           |  | L                | T | P  | TA                | CT | ESE | TOTAL |         |
| MIT31     | Data Communication & Industrial Networking | 4                | - | -  | 20                | 10 | 70  | 100   | 4       |
| MIT32     | Advanced Process control                   | 4                | - | -- | 20                | 10 | 70  | 100   | 4       |

**Practical**

| PAPER NO. | SUBJECT | PERIODS per week |   |   | EVALUATION SCHEME |    |     |       | CREDITS |
|-----------|---------|------------------|---|---|-------------------|----|-----|-------|---------|
|           |         | L                | T | P | TA                | CT | ESE | TOTAL |         |

|       |                          |   |   |   |    |  |    |     |   |
|-------|--------------------------|---|---|---|----|--|----|-----|---|
| MIP31 | Advanced process control | - | 1 | 7 | 50 |  | 50 | 100 | 4 |
|-------|--------------------------|---|---|---|----|--|----|-----|---|

**Semester IV Examination**

**Theoretical**

| PAPER NO. | SUBJECT                            | PERIODS per week |   |   | EVALUATION SCHEME |    |     |       | CREDITS |
|-----------|------------------------------------|------------------|---|---|-------------------|----|-----|-------|---------|
|           |                                    | L                | T | P | TA                | CT | ESE | TOTAL |         |
| MIT41     | Advanced Digital Signal Processing | 4                | - | - | 20                | 10 | 70  | 100   | 4       |
| MIT42     | Elective Paper II                  | 4                | - | - | 20                | 10 | 70  | 100   | 4       |

**Practical**

| PAPER NO. | SUBJECT       | PERIODS per week |   |   | EVALUATION SCHEME |    |     |       | CREDITS |
|-----------|---------------|------------------|---|---|-------------------|----|-----|-------|---------|
|           |               | L                | T | P | TA                | CT | ESE | TOTAL |         |
| MIP41     | Communication | -                | 1 | 7 | 50                |    | 50  | 100   | 4       |

**Semester V Examination**

| PAPER NO. | SUBJECT                         | PERIODS per week |   |    | EVALUATION SCHEME |    |     |       | CREDITS |
|-----------|---------------------------------|------------------|---|----|-------------------|----|-----|-------|---------|
|           |                                 | L                | T | P  | TA                | CT | ESE | TOTAL |         |
| MIP51     | Seminar                         | -                | 2 | 6  | 50                | -  | 50  | 100   | 4       |
| MIP52     | Project Phase I<br>Plan of work | -                | 4 | 12 | 50                | -  | 150 | 200   | 8       |
| MIP53     | General Viva Voce               | -                | - | -  | -                 | -  | -   | 100   | 4       |

**Semester VI Examination**

| PAPER NO. | SUBJECT          | PERIODS per week |   |    | EVALUATION SCHEME |    |     |       | CREDITS |
|-----------|------------------|------------------|---|----|-------------------|----|-----|-------|---------|
|           |                  | L                | T | P  | TA                | CT | ESE | TOTAL |         |
| MIP61     | Project Phase II | -                | 8 | 24 | 100               | -  | 300 | 400   | 16      |