

**B.Sc. DEGREE COURSE IN ELECTRONICS AND  
COMMUNICATION SCIENCE**

**Revised Scheme of Examinations  
(w.e.f.2013-14)**

**FIRST SEMESTER**

| S.No. | Subjects   | Instructional Hrs. | Credits | Exam Hrs. | Max. Marks |           |       |
|-------|--|--------------------|---------|-----------|------------|-----------|-------|
|       |  |                    |         |           | Ext.Marks  | Int.Marks | Total |
| 1     | Part I<br>Tamil / Other languages – I  | 4                  | 3       | 3         | 75         | 25        | 100   |
| 2     | Part II<br>English – I   | 4                  | 3       | 3         | 75         | 25        | 100   |
| 3     | Part III<br>Core – 1<br>Basic Circuit Theory   | 6                  | 4       | 3         | 75         | 25        | 100   |
| 4     | Core – 2<br>Main Practical 1   | 6                  | 4       | 3         | 60         | 40        | 100   |
| 5     | Part III<br>Allied – I<br>Mathematics – 1  | 6                  | 5       | 3         | 75         | 25        | 100   |
| 6     | Part IV<br>1.(a) Not studied Tamil upto xii std., - shall take Tamil comprising of two courses (level VI std.,)<br>(b) Studied Tamil upto xii std. – taken Non-Tamil under Part – I shall take advance Tamil comprising of two courses.<br>(c) Others who do not come under a & b can choose non-major elective comprising of two courses. | 2                  | 2       | 3         | 75         | 25        | 100   |
| 7     | Non Major Elective   |                    |         |           |            |           |       |
| 8     | SOFT SKILLS  | 2                  | 3       | 3         | 50         | 50        | 100   |

Total Instructional Hours = 30

Total Credits = 24

**SECOND SEMESTER**

| S.No. | Subjects   | Instructional Hrs. | Credits | Exam Hrs. | Max. Marks |           |       |
|-------|--|--------------------|---------|-----------|------------|-----------|-------|
|       |  |                    |         |           | Ext.Marks  | Int.Marks | Total |
| 1     | Part I<br>Tamil / Other languages – II   | 4                  | 3       | 3         | 75         | 25        | 100   |
| 2     | Part II<br>English – II  | 4                  | 3       | 3         | 75         | 25        | 100   |
| 3     | Part III<br>Core – 3<br>Basic Electronics  | 6                  | 4       | 3         | 75         | 25        | 100   |
| 4     | Core – 4<br>Main Practical 2   | 6                  | 4       | 3         | 60         | 40        | 100   |
| 5     | Part III<br>Allied - II<br>Mathematics – II  | 6                  | 5       | 3         | 75         | 25        | 100   |
| 6     | Part IV<br>1.(a) Not studied Tamil upto xii std., - shall take Tamil comprising of two courses (level VI std.,)<br>(b) Studied Tamil upto xii std. – taken Non-Tamil under Part – I shall take advance Tamil comprising of two courses.<br>(c) Others who do not come under a & b can choose non-major elective comprising of two courses. | 2                  | 2       | 3         | 75         | 25        | 100   |
| 7     | Non Major Elective   |                    |         |           |            |           |       |
| 8     | SOFT SKILLS  | 2                  | 3       | 3         | 50         | 50        | 100   |

Total Instructional Hours = 30

Total Credits = 24

### THIRD SEMESTER

| S.No. | Subjects   | Instructional Hrs. | Credits                                  | Exam Hrs. | Max. Marks |            |           |
|-------|--|--------------------|--|-----------|------------|------------|-----------|
|       |  |                    |  |           | Ext. Marks | Int. Marks | Total     |
| 1     | Part III<br>Foundation Course – 1<br>Electricity, Magnetism And Electromagnetism | 4                  | 3  | 3         | 75         | 25         | 100       |
| 2     | Part III<br>Foundation Course – 2<br>Numerical Methods<br>Practical – Internal   | 4                  | 3  | 3         | 50         | 10         | 60        |
| 3     | Part III<br>Core – 5<br>Amplifiers and Oscillators                               | 5                  | 4  | 3         | 30<br>75   | 10<br>25   | 40<br>100 |
| 4     | Part III<br>Core – 6<br>Main Practical – 3                                       | 6                  | 4  | 3         | 60         | 40         | 100       |
|       | Part III<br>Allied – III<br>Paper - I - Basic Physics 1                          | 5                  | 3  | 3         | 75         | 25         | 100       |
| 5     | Part III<br>Allied – III<br>Paper – II Basic Physics Practicals                  | 3                  | Examinations will be held in IV Semester |           |            |            |           |
| 6     | Part IV<br>2. Soft Skill – III   | 2                  | 3  | 3         | 50         | 50         | 100       |
| 7     | 3. Environmental Studies   | 1                  | Examinations will be held in IV Semester |           |            |            |           |

Total Instructional Hours = 30

Total Credits = 20

### FOURTH SEMESTER

| S.No. | Subjects   | Instructional Hrs. | Credits | Exam Hrs. | Max. Marks |            |       |
|-------|--|--------------------|---------|-----------|------------|------------|-------|
|       |  |                    |         |           | Ext. Marks | Int. Marks | Total |
| 1     | Part III<br>Foundation Course – 3<br>Principles of Communication       | 4                  | 3       | 3         | 75         | 25         | 100   |
| 2     | Part III<br>Foundation Course – 4<br>Programming In 'C' & OOPS Concept | 4                  | 3       | 3         | 75         | 25         | 100   |
| 3     | Part III<br>Core – 7<br>Digital Electronics                            | 5                  | 4       | 3         | 75         | 25         | 100   |
| 4     | Part III<br>Core – 8<br>Main Practical – 4                             | 6                  | 4       | 3         | 60         | 40         | 100   |
| 5     | Part III<br>Allied – IV<br>Paper – I Basic Physics – II                | 5                  | 3       | 3         | 75         | 25         | 100   |
| 6     | Part III<br>Allied – IV<br>Paper – II Basic Physics Practical          | 3                  | 4       | 3         | 60         | 40         | 100   |
| 7     | Part IV<br>2. Soft Skill – III   | 2                  | 3       | 3         | 50         | 50         | 100   |
| 8     | Environmental Studies  | 1                  | 2       | 3         | 75         | 25         | 100   |

Total Instructional Hours = 30

Total Credits = 26

## FIFTH SEMESTER

| S.No | Subjects  | Instru<br>ctional<br>Hrs | Credits | Exam<br>Hrs | Max. Marks |           |       |
|------|---|--------------------------|---------|-------------|------------|-----------|-------|
|      |   |                          |         |             | Ext.Marks  | Int.Marks | Total |
| 1    | Part III<br>Core – 9<br>Microprocessor (Intel 8085)                 | 6                        | 4       | 3           | 75         | 25        | 100   |
| 2    | Part III<br>Core - 10<br>Antennas And Television Engineering        | 6                        | 4       | 3           | 75         | 25        | 100   |
| 3    | Part III<br>Core – 11<br>Electrical And Electronics Instrumentation | 6                        | 4       | 3           | 75         | 25        | 100   |
| 4    | Part III<br>Elective – I  | 5                        | 4       | 3           | 75         | 25        | 100   |
| 5    | Part III<br>Core - 12<br>Main Practical – 5                         | 6                        | 4       | 3           | 60         | 40        | 100   |
|      | Part IV<br>Value Education  | 1                        | 2       | 3           | 75         | 25        | 100   |

Total Instructional Hours = 30

Total Credits = 22

## SIXTH SEMESTER

| S.No | Subjects                                      | Instr<br>uctio<br>nalH<br>rs | C<br>redits | Exam<br>Hrs | Max. Marks |           |       |
|------|---|------------------------------|-------------|-------------|------------|-----------|-------|
|      |   |                              |             |             | Ext.Marks  | Int.Marks | Total |
| 1    | Part III<br>Core – 13<br>Microcontroller      | 6                            | 4           | 3           | 75         | 25        | 100   |
| 2    | Part III<br>Core - 14<br>Advanced Electronics | 6                            | 4           | 3           | 75         | 25        | 100   |
| 3    | Part III<br>Core – 15<br>Computer Networks    | 6                            | 4           | 3           | 75         | 25        | 100   |
| 4    | Part III<br>Elective – II                     | 5                            | 4           | 3           | 75         | 25        | 100   |
| 5    | Part III<br>Core - 16<br>Project              | 7                            | 7           | 3           | 60         | 40        | 100   |
| 6    | Part IV<br>Extension Activities               |                              | 1           |             |            |           |       |

Total Instructional Hours = 30

Total Credits = 24

1. Theory of Robotics and Automation
2. Industrial Electronics
3. Microwave And Fiber Optic Communication Systems
4. Mobile Communication
5. Medical Electronics
6. Consumer Electronics

**Overall Credits = 140**