## THIRD SEMESTER SCHEME FOR LATERAL ENTRY AND ITI PASSED STUDENTS ELECTRONICS ENGINEERING (Modern Consumer Electronics Appliances)

|            | SUBJECTS                        |    | STUDY<br>SCHEME<br>Periods/Week |    |    |                        | Total |     |     |                              |     |     |     |          |
|------------|---------------------------------|----|---------------------------------|----|----|------------------------|-------|-----|-----|------------------------------|-----|-----|-----|----------|
| Sr.<br>No. |                                 | S  |                                 |    |    | INTERNAL<br>ASSESSMENT |       |     |     | Marks of Internal & External |     |     |     |          |
|            |                                 | L  | T                               | P  | 1  | Th                     | Pr    | Tot | Th  | Hrs                          | Pr  | Hrs | Tot | External |
| 3.1        | *Applied Mathematics-III        | 5  | -                               | -  | 4  | 20                     | -     | 20  | 50  | 2 ½                          | -   |     | 50  | 70       |
| 3.2        | Electrical Engineering -II      | 4  | -                               | 4  | 6  | 20                     | 30    | 50  | 50  | 2 1/2                        | 50  | 3   | 100 | 150      |
| 3.3        | *Environmental Studies          | 3  | -                               | 2  | 3  | 20                     | 10    | 30  | 50  | 2 ½                          | 20  | 3   | 70  | 100      |
| 3.4        | Electronic Devices and Circuits | 6  | -                               | 6  | 7  | 20                     | 30    | 50  | 50  | 2 ½                          | 50  | 3   | 100 | 150      |
| 3.5        | Electronics Workshop            | -  | -                               | 6  | 3  | -                      | 40    | 40  | _   | -                            | 60  | 4   | 60  | 100      |
| 3.6        | **Digital Electronics           | 4  | -                               | 4  | 6  | 20                     | 30    | 50  | 50  | 2 ½                          | 50  | 3   | 100 | 150      |
| 3.7        | Universal Human Values          | 2  | -                               | 1  | 1  | -                      | 20    | 20  | -   | -                            | 30  | 3   | 30  | 50       |
| # Stu      | # Student Centred Activities    |    | -                               | 1  | 1  | -                      | 30    | 30  | -   | -                            | -   | -   | -   | 30       |
|            | Total                           | 24 | -                               | 24 | 31 | 100                    | 190   | 290 | 250 | -                            | 260 | -   | 510 | 800      |

<sup>\*</sup> Common with other diploma programmes

<sup>\*\*</sup> Common course with Computer Science and Engineering

<sup>#</sup> Student Centred Activities will comprise of co-curricular activities like extension lectures, self study, games, hobby clubs e.g. photography etc., seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities, disaster management and safety etc.

- A. COMPULSORY SUBJECT OF I & II SEMESTER ELECTRONICS ENGINEERING TO BE TAUGHT IN III & IV Sem. TO ITI PASSED STUDENTS OF TRADES ARE AS FOLLOWS:
- I. MECHANIC (RADIO & T.V.) II. MECHANIC (CONSUMER ELECTRONICS) III INSTRUMENT MECHANIC IV. ELECTRONICS MECHANIC V. INFORMATION TECHNOLOGY & ELECTRONIC ENGINEERING VI. ELECTRONIC SECTOR VII.MECHANIC TECHNOLOGY & ELECTRONIC SYSTEM MAINTENANCE

|     | SUBJECTS                 | STUDY<br>SCHEME<br>Periods/Week |   |   |         |                        | Total |     |     |     |                   |     |     |               |
|-----|--------------------------|---------------------------------|---|---|---------|------------------------|-------|-----|-----|-----|-------------------|-----|-----|---------------|
| Sr. |                          |                                 |   |   | Credits | INTERNAL<br>ASSESSMENT |       |     |     |     | Marks of Internal |     |     |               |
| No. |                          | L                               | Т | P |         | Th                     | Pr    | Tot | Th  | Hrs | Pr                | Hrs | Tot | &<br>External |
| 1.1 | *Communication Skills-I  | 4                               | - | 2 | 4       | -                      | -     | -   | 50  | 2 ½ | 20                | 3   | 70  | 70            |
| 1.2 | *Applied Mathematics - I | 5                               | - | - | 4       | -                      | -     | 1   | 50  | 2 ½ | -                 | -   | 50  | 50            |
| 1.3 | *Applied Physics – I     | 5                               | - | 2 | 5       | -                      | -     | -   | 50  | 2 ½ | 20                | 3   | 70  | 70            |
| 1.4 | *Applied Chemistry       | 5                               | - | 2 | 5       | -                      | _     | ı   | 50  | 2 ½ | 20                | 3   | 70  | 70            |
|     |                          | 19                              | - | 6 | 18      |                        | -     | -   | 200 |     | 60                |     | 260 | 260           |

<sup>\*</sup> Common with other diploma programmes

<sup>#</sup> Student Centred Activities will comprise of co-curricular activities like extension lectures, self study, games, hobby clubs e.g. photography etc., seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities, disaster management and safety etc.

<sup>(\*)</sup> It is compulsory to appear & to pass in examination From III Semester To VI Semester, But credit/marks will not be included for division and percentage of obtained marks.

<sup>(\*)</sup> Four Semester (Two Years) of Extra Time will be given after diploma curriculum period (If Required) to pass the above paper (1.1 To 1.4 and 2.1 to 2.2) examination (As Per G. O. No. 2221/16-Pra. Shi.-3-2009 Dated 28-08-2009) & Revised G.O. No. 2704/16-Pra.Shi.-3-2013-46(8)/2002 Dated 09-01-2013 and B.T.E Order No. Pra.Shi.Pa/C.D.C./2022/872021 Dated 21.02.22

## FOURTH SEMESTER

|            |  | STUDY<br>SCHEME<br>Periods/Week |   |    | Credits |                        | Total |     |     |       |                   |     |     |          |
|------------|--|---------------------------------|---|----|---------|------------------------|-------|-----|-----|-------|-------------------|-----|-----|----------|
| Sr.<br>No. | SUBJECTS                                   |                                 |   |    |         | INTERNAL<br>ASSESSMENT |       |     |     |       | Marks of Internal |     |     |          |
|            |  | L                               | T | P  |         | Th                     | Pr    | Tot | Th  | Hrs   | Pr                | Hrs | Tot | External |
| 4.1        | *Communication Skill-II                    | 4                               | - | 2  | 4       | 20                     | 10    | 30  | 50  | 2 1/2 | 20                | 3   | 70  | 100      |
| 4.2        | Industrial Electronics and Transducers     | 4                               | - | 4  | 5       | 20                     | 30    | 50  | 50  | 2 ½   | 50                | 3   | 100 | 150      |
| 4.3        | Network Filters and Transmission Line      | 4                               |   | 4  | 5       | 20                     | 30    | 50  | 50  | 2 ½   | 50                | 3   | 100 | 150      |
| 4.4        | Electronic Instruments and<br>Measurement  | 4                               | - | 4  | 5       | 20                     | 30    | 50  | 50  | 2 1/2 | 50                | 3   | 100 | 150      |
| 4.5        | Principles of Communication<br>Engineering | 4                               | - | 4  | 5       | 20                     | 30    | 50  | 50  | 2 ½   | 50                | 3   | 100 | 150      |
| 4.6        | *Energy Conservation                       | 3                               | - | 2  | 3       | 20                     | 10    | 30  | 50  | 2 ½   | 20                | 3   | 70  | 100      |
| #Stuc      | #Student Centred Activities (SCA)          |                                 | - | 5  | 1       | -                      | 30    | 30  | -   | -     | -                 | -   | -   | 30       |
|            | Total                                      |                                 | - | 25 | 28      | 120                    | 170   | 290 | 300 | -     | 240               | -   | 540 | 830      |

<sup>\*</sup> Common with other diploma programmes

Industrial training of 4 weeks duration to be organised after 4<sup>th</sup> semester exams

<sup>#</sup> Student Centred Activities will comprise of co-curricular activities like extension lectures, self study, games, hobby clubs e.g. photography etc., seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities, disaster management and safety etc.

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|     | SUBJECTS                  | STUDY<br>SCHEME<br>Periods/Week |   |   | Credits |                        | Total |     |     |                   |    |     |     |               |
|-----|---------------------------|---------------------------------|---|---|---------|------------------------|-------|-----|-----|-------------------|----|-----|-----|---------------|
| Sr. |                           |                                 |   |   |         | INTERNAL<br>ASSESSMENT |       |     |     | Marks of Internal |    |     |     |               |
| No. |                           | L                               | T | P |         | Th                     | Pr    | Tot | Th  | Hrs               | Pr | Hrs | Tot | &<br>External |
| 2.1 | *Applied Mathematics - II | 5                               | - | - | 4       | -                      | -     |     | 50  | 2 ½               | -  | -   | 50  | 50            |
| 2.2 | *Applied Physics -II      | 5                               | - | 2 | 5       | -                      | -     |     | 50  | 2 ½               | 20 | 3   | 70  | 70            |
|     | Total                     | 10                              | - | 2 | 9       | -                      | •     | -   | 100 | -                 | 20 | -   | 120 | 120           |

- \* Common with other diploma programme
- # Student Centred Activities will comprise of co-curricular activities like extension lectures, self study, games, hobby clubs e.g. photography etc., seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities, disaster management and safety etc.

  Industrial training of 4 weeks duration to be organised after 4<sup>th</sup> semester exams
- (\*) It is compulsory to appear & to pass in examination From III Semester To VI Semester, But credit/marks will not be included for division and percentage of obtained marks.
- (\*) Four Semester (Two Years) of Extra Time will be given after diploma curriculum period (If Required) to pass the above paper (1.1 To 1.4 and 2.1 to 2.2) examination (As Per G. O. No. 2221/16-Pra. Shi.-3-2009 Dated 28-08-2009) & Revised G.O. No. 2704/16-Pra.Shi.-3-2013-46(8)/2002 Dated 09-01-2013 and B.T.E Order No. Pra.Shi.Pa/C.D.C./2022/872021 Dated 21.02.22

## FIFTH SEMESTER

|            |   |    | STUDY<br>SCHEME<br>Periods/Week |    |    |                        | Total |     |     |       |                     |     |     |          |
|------------|---|----|---------------------------------|----|----|------------------------|-------|-----|-----|-------|---------------------|-----|-----|----------|
| Sr.<br>No. | SUBJECTS  |    |                                 |    |    | INTERNAL<br>ASSESSMENT |       |     |     |       | Marks of Internal & |     |     |          |
|            |   | L  | T                               | P  |    | Th                     | Pr    | Tot | Th  | Hrs   | Pr                  | Hrs | Tot | External |
| -          | Industrial Training                                   | -  |                                 | -  | 2  | -                      | -     | -   | -   | -     | 50                  | 3   | 50  | 50       |
| 5.1        | *Industrial Management & Entrepreneurship Development | 5  | -                               | -  | 4  | 20                     | -     | 20  | 50  | 2 1/2 | -                   | -   | 50  | 70       |
| 5.2        | Microprocessors                                       | 4  | -                               | 4  | 5  | 20                     | 30    | 50  | 50  | 2 1/2 | 50                  | 3   | 100 | 150      |
| 5.3        | Optical Fiber Communication                           | 4  | -                               | 6  | 6  | 20                     | 30    | 50  | 50  | 2 ½   | 50                  | 3   | 100 | 150      |
| 5.4        | Consumer Electronics                                  | 4  | -                               | 4  | 5  | 20                     | 30    | 50  | 50  | 2 ½   | 50                  | 3   | 100 | 150      |
| 5.5        | Programming in C                                      | 4  | -                               | 4  | 5  | 20                     | 30    | 50  | 50  | 2 ½   | 50                  | 3   | 100 | 150      |
| 5.6        | Minor Project Work                                    | -  | -                               | 6  | 2  | -                      | 40    | 40  | -   | -     | 60                  | 3   | 60  | 100      |
| #Stuc      | #Student Centred Activities (SCA) -                   |    | -                               | 3  | 1  |                        | 30    | 30  | -   | -     | -                   | -   | -   | 30       |
|            | Total   | 21 | -                               | 27 | 30 | 100                    | 190   | 290 | 250 | -     | 310                 | -   | 560 | 850      |

<sup>#</sup> Student Centred Activities will comprise of co-curricular activities like extension lectures, self study, games, hobby clubs e.g. photography etc., seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities, disaster management and safety etc.

## SIXTH SEMESTER

|            |   | STUDY<br>SCHEME<br>Periods/Week |   |    | Credits |                        | Total |     |     |       |                     |     |     |          |
|------------|---|---------------------------------|---|----|---------|------------------------|-------|-----|-----|-------|---------------------|-----|-----|----------|
| Sr.<br>No. | SUBJECTS  |                                 |   |    |         | INTERNAL<br>ASSESSMENT |       |     |     |       | Marks of Internal & |     |     |          |
|            |   | L                               | T | P  |         | Th                     | Pr    | Tot | Th  | Hrs   | Pr                  | Hrs | Tot | External |
| 6.1        | Microwave Engineering                                 | 4                               | - | 4  | 5       | 20                     | 30    | 50  | 50  | 2 1/2 | 50                  | 3   | 100 | 150      |
| 6.2        | Microcontrollers and Embedded<br>System               | 6                               | - | 6  | 7       | 20                     | 30    | 50  | 50  | 2 ½   | 50                  | 3   | 100 | 150      |
| 6.3        | Wireless and Mobile Communication<br>System           | 4                               | - | 6  | 6       | 20                     | 30    | 50  | 50  | 2 ½   | 50                  | 3   | 100 | 150      |
| 6.4        | MODERN CONSUMER ELECTRONICS<br>APPLIANCES (for MCE) / | 4                               | - | 2  | 4       | 20                     | 30    | 50  | 50  | 2 ½   | 50                  | 3   | 100 | 150      |
|            | ADVANCE MICROPROCESSOR & INTERFACE (for AM&I)/        |                                 |   |    |         |                        |       |     |     |       |                     |     |     |          |
|            | MICRO-ELECTRONICS (for Micro Elex.)                   |                                 |   |    |         |                        |       |     |     |       |                     |     |     |          |
| 6.5        | Project Work  | -                               | - | 8  | 3       | -                      | 50    | 50  | -   | -     | 100                 | 4   | 100 | 150      |
| #Stud      | #Student Centred Activities (SCA)                     |                                 | - | 4  | 1       |                        | 30    | 30  | _   | -     | -                   | -   | -   | 30       |
|            | Total   | 18                              |   | 30 | 26      | 80                     | 200   | 280 | 200 | -     | 300                 | -   | 500 | 780      |

<sup>#</sup> Student Centred Activities will comprise of co-curricular activities like extension lectures, self study, games, hobby clubs e.g. photography etc., seminars, declamation contests, educational field visits, N.C.C., NSS, C