



# CANARA ENGINEERING COLLEGE

BENJANAPADAVU – 574219, Bantwal Taluk, D K District, Karnataka

[www.canaraengineering.in](http://www.canaraengineering.in)

## Feedback on Learning Outcomes - Department of ECE

Sample Feedback Forms - Pg. No.2  
Feedback Analysis - Pg.No. 10



# Data to Information & Information to Insight

Dashboard

Online Users : 29 Welcome, Prathibha . M (0120140018)

Logout (logout)

Advanced Attendance option is available for VI Semester Students till 23rd July 2022. Student edit option is available for TG. Datewise Atte

## Criteria-7 CO PO Report

Admission Year: Select ▼

Select Branch: Select Branch ▼

Print Report

## CO PO Report-2016-2017 Electronics & Communication Engineering

| Sl. No. | Course Code | CO Attainment 10 Scale | PO1                                     | PO2                                     | PO3                                     | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11                                    | PO12 | PSO1 | PSO2 |
|---------|-------------|------------------------|---|---|---|-----|-----|-----|-----|-----|-----|------|---|------|------|------|
| 1       | 15MAT11     | 4.73                   | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>4.73 | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>4.1  |   |     |     |     |     |     |     |      |   |      |      |      |
| 2       | 15CHE12     | 7.51                   | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>5.01 | CO1<br>CO3<br>CO4<br>CO5<br>5.01        |   |     |     |     |     |     |     |      |   |      |      |      |
| 3       | 15PCD13     | 7.6                    | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>6.08 | CO1<br>CO3<br>CO4<br>CO5<br>5.7         | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>7.09 |     |     |     |     |     |     |      |   |      |      |      |
| 4       | 15CDE14     | 8.51                   | CO1<br>CO2<br>CO4<br>CO5<br>8.51        | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>5.67 | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>8.51 |     |     |     |     |     |     |      | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>2.84 |      |      |      |

| Sl. No. | Course Code | CO Attainment 10 Scale | PO1                                     | PO2                                     | PO3         | PO4                | PO5         | PO6                                     | PO7                                     | PO8                                     | PO9 | PO10                      | PO11 | PO12                                    | PSO1 | PSO2 |
|---------|-------------|------------------------|---|---|-------------|--------------------|-------------|---|---|---|-----|---------------------------|------|---|------|------|
| 5       | 15ELN15     | 9.1                    | C01<br>C02<br>C03<br>C04<br>C05<br>7.89 | C01<br>C02<br>C03<br>C04<br>6.07        |             |                    |             |   |   |   |     |                           |      |   |      |      |
| 6       | 15CPL16     | 10                     | C01<br>C02<br>10                        | C01<br>C02<br>C03<br>C05<br>5.83        | C05<br>6.67 | C03<br>C04<br>8.33 | C04<br>3.33 |   |   |   |     |                           |      |   |      |      |
| 7       | 15CHEL17    | 10                     | C01<br>C02<br>C03<br>C04<br>C05<br>6.67 | C01<br>C02<br>C03<br>C04<br>C05<br>6.67 |             |                    |             |   |   |   |     | C03<br>C04<br>C05<br>6.67 |      |   |      |      |
| 8       | 15CIV18     | 2.99                   |   |   |             |                    |             | C01<br>C02<br>C03<br>C04<br>C05<br>1.99 | C01<br>C02<br>C03<br>C04<br>C05<br>1.99 | C01<br>C02<br>C03<br>C04<br>C05<br>1.99 |     |                           |      | C01<br>C02<br>C03<br>C04<br>C05<br>1.99 |      |      |
| 9       | 15MAT21     | 4.34                   | C01<br>C02<br>C03<br>C04<br>C05<br>4.34 | C01<br>C02<br>C03<br>C04<br>C05<br>3.76 |             |                    |             |   |   |   |     |                           |      |   |      |      |
| 10      | 15PHY22     | 5.89                   | C01<br>C02<br>C03<br>C04<br>C05<br>5.89 | C01<br>C02<br>C03<br>C04<br>C05<br>3.93 |             |                    |             |   |   |   |     |                           |      |   |      |      |
| 11      | 15CIV23     | 5.63                   | C01<br>C02<br>C03<br>C04<br>C05<br>4.88 | C01<br>C02<br>C03<br>C04<br>C05<br>4.88 |             |                    |             |   |   |   |     |                           |      |   |      |      |
| 12      | 15EME24     | 7.39                   | C01<br>C02<br>C03<br>C04<br>C05<br>7.39 | C02<br>C03<br>4.93                      |             |                    |             |   | C01<br>C04<br>4.93                      |   |     |                           |      | C01<br>C02<br>C03<br>C04<br>C05<br>4.93 |      |      |
| 13      | 15ELE25     | 9.31                   | C01<br>C02<br>C03<br>C04<br>C05<br>8.69 | C01<br>C02<br>C03<br>C04<br>C05<br>6.83 |             |                    |             |   |   |   |     |                           |      |   |      |      |

| Sl. No. | Course Code | CO Attainment 10 Scale | PO1                                     | PO2                                     | PO3                | PO4 | PO5                       | PO6                                     | PO7 | PO8                                     | PO9                                     | PO10                                    | PO11 | PO12                                    | PSO1                                    | PSO2                                    |   |
|---------|-------------|------------------------|---|---|--------------------|-----|---------------------------|---|-----|---|---|---|------|---|---|---|---|
| 14      | 15WSL26     | 9.09                   | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>6.06 |   |                    |     |                           |   |     |   | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>6.06 | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>6.06 |      |   |   |   |   |
| 15      | 15PHYL27    | 9.31                   | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>9.31 | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>6.21 |                    |     |                           |   |     |   |   | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>6.21 |      |   |   |   |   |
| 16      | 15CPH28     | 3.33                   |   |   |                    |     |                           | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>3.33 |     | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>3.33 |   |   |      | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>3.33 |   |   |   |
| 17      | 15MAT31     | 4.56                   | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>4.26 | CO3<br>CO4<br>CO5<br>4.05               |                    |     |                           |   |     |   |   |   |      |   | CO2<br>CO3<br>CO4<br>3.04               |   |   |
| 18      | 15EC32      | 4.86                   | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>2.92 | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>3.24 |                    |     | CO1<br>CO4<br>CO5<br>3.24 |   |     |   |   |   |      |   | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>3.24 | CO3<br>3.24                             |   |
| 19      | 15EC33      | 5.8                    | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>5.8  | CO1<br>CO2<br>CO4<br>CO5<br>5.8         | CO2<br>CO4<br>1.93 |     |                           |   |     |   | CO2<br>CO4<br>3.87                      | CO2<br>CO4<br>1.93                      |      | CO2<br>CO4<br>1.93                      | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>3.87 |   |   |
| 20      | 15EC34      | 8.29                   | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>8.29 | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>5.53 |                    |     | CO1<br>CO2<br>8.29        |   |     |   |   |   |      | CO1<br>CO2<br>8.29                      | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>8.29 | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>2.76 |   |
| 21      | 15EC35      | 5.97                   | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>3.98 | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>3.98 |                    |     | CO4<br>CO5<br>1.99        | CO3<br>1.99                             |     |   |   |   |      |   | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>3.98 | CO3<br>1.99                             |   |
| 22      | 15EC835     | 10                     | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>6.67 | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>6.67 |                    |     |                           |   |     |   |   |   |      |   |   |   | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>6.67 |

| Sl. No. | Course Code              | CO Attainment 10 Scale | PO1                                     | PO2                                     | PO3                       | PO4                | PO5                                     | PO6 | PO7 | PO8 | PO9         | PO10               | PO11 | PO12 | PSO1                                    | PSO2                                    |
|---------|--------------------------|------------------------|---|---|---------------------------|--------------------|---|-----|-----|-----|-------------|--------------------|------|------|---|---|
| 23      | 15EC36                   | 5.93                   | C01<br>C02<br>C03<br>C04<br>C05<br>5.93 | C01<br>C02<br>C03<br>C04<br>C05<br>5.53 |                           |                    | C01<br>C02<br>C03<br>C04<br>C05<br>2.77 |     |     |     |             |                    |      |      | C01<br>C02<br>C03<br>C04<br>C05<br>1.98 | C01<br>C02<br>C03<br>C04<br>C05<br>3.16 |
| 24      | 15ECL37                  | 8.23                   | C01<br>C02<br>C03<br>C04<br>C05<br>8.23 | C01<br>C02<br>C03<br>C04<br>C05<br>8.23 |                           |                    |   |     |     |     |             |                    |      |      | C01<br>C02<br>C03<br>C04<br>C05<br>8.23 | C01<br>C02<br>C03<br>C04<br>C05<br>8.23 |
| 25      | 15ECL38                  | 8.91                   | C01<br>C02<br>C03<br>C05<br>8.91        | C01<br>C02<br>C03<br>C05<br>8.91        |                           |                    | C01<br>C02<br>C05<br>8.91               |     |     |     | C01<br>5.94 | C04<br>C05<br>8.91 |      |      | C01<br>C02<br>C03<br>C04<br>C05<br>7.72 |   |
| 26      | 15MAT41                  | 6.91                   | C01<br>C02<br>C03<br>C04<br>C05<br>6.91 | C01<br>C02<br>C03<br>C04<br>C05<br>5.53 |                           |                    |   |     |     |     |             |                    |      |      | C01<br>C02<br>C03<br>C04<br>6.33        | C03<br>C04<br>C05<br>5.37               |
| 27      | 15EC42                   | 7.86                   | C01<br>C02<br>C05<br>6.11               | C01<br>C02<br>C05<br>6.99               | C03<br>C04<br>C05<br>7.86 |                    | C03<br>C04<br>C05<br>7.86               |     |     |     |             |                    |      |      | C01<br>C02<br>C03<br>C04<br>C05<br>7.86 |   |
| 28      | 15EC43                   | 2.03                   | C01<br>C02<br>C03<br>C04<br>C05<br>2.03 | C01<br>C02<br>C03<br>C04<br>C05<br>2.03 | C02<br>C03<br>C04<br>1.35 |                    |   |     |     |     |             |                    |      |      | C01<br>C02<br>C03<br>C04<br>C05<br>2.03 |   |
| 29      | 15EC44                   | 9.14                   | C01<br>C02<br>C03<br>C04<br>C05<br>9.14 | C01<br>C02<br>C03<br>C04<br>C05<br>7.31 |                           |                    | C01<br>C02<br>C03<br>C04<br>C05<br>6.09 |     |     |     |             |                    |      |      | C01<br>C02<br>C03<br>5.08               | C01<br>C02<br>C03<br>C04<br>C05<br>9.14 |
| 30      | ryptography<br>[15EC744] | 6.61                   | C01<br>C02<br>C03<br>C04<br>C05<br>6.61 | C01<br>C02<br>C03<br>C04<br>C05<br>6.61 |                           |                    |   |     |     |     |             |                    |      |      | C01<br>C02<br>C03<br>C04<br>C05<br>4.41 | C01<br>C02<br>C03<br>C04<br>C05<br>6.61 |
| 31      | 15EC45                   | 8.33                   | C01<br>C02<br>C03<br>C04<br>C05<br>8.33 | C01<br>C02<br>C03<br>C04<br>C05<br>7.22 | C01<br>C02<br>C05<br>8.33 | C03<br>C04<br>6.94 |   |     |     |     |             |                    |      |      | C01<br>C02<br>C03<br>C04<br>C05<br>5    | C01<br>C02<br>C03<br>8.33               |

| Sl. No. | Course Code | CO Attainment 10 Scale | PO1                                     | PO2                                     | PO3                                     | PO4                             | PO5                                    | PO6                      | PO7         | PO8                | PO9                                     | PO10                      | PO11               | PO12                      | PS01                                    | PS02                                    |
|---------|-------------|------------------------|---|---|---|---------------------------------|--|--------------------------|-------------|--------------------|---|---------------------------|--------------------|---------------------------|---|---|
| 32      | 15EC46      | 8.11                   | C01<br>C02<br>C03<br>C04<br>C05<br>8.11 | C01<br>C02<br>C03<br>C04<br>C05<br>8.11 |   |                                 | C02<br>C03<br>C04<br>C05<br>8.11       |                          |             |                    | C02<br>C03<br>C04<br>C05<br>8.11        |                           |                    | C05<br>5.41               | C01<br>C02<br>C03<br>C04<br>C05<br>8.11 | C01<br>C04<br>C05<br>6.31               |
| 33      | 15ECL47     | 9.26                   | C01<br>C02<br>C03<br>C04<br>C05<br>9.26 | C01<br>C02<br>C03<br>C05<br>9.26        |   |                                 | C01<br>C02<br>C03<br>C05<br>9.26       |                          |             |                    | C01<br>C02<br>9.26                      | C03<br>C05<br>9.26        |                    |                           | C01<br>C02<br>C03<br>C04<br>C05<br>8.03 | C01<br>C02<br>C05<br>6.17               |
| 34      | 15ECL48     | 9.2                    | C01<br>C02<br>C05<br>9.2                | C01<br>C03<br>C05<br>9.2                | C01<br>C03<br>C04<br>C05<br>8.43        | C01<br>C02<br>C04<br>C05<br>9.2 |  | C01<br>C04<br>C05<br>9.2 |             |                    |   |                           |                    |                           | C01<br>C02<br>C03<br>C04<br>C05<br>9.2  | C01<br>C02<br>C03<br>C04<br>C05<br>9.2  |
| 35      | 15ES51      | 4.86                   | C05<br>4.86                             | C01<br>C02<br>C05<br>4.86               | C01<br>C02<br>C05<br>4.32               | C03<br>C04<br>C05<br>2.16       |  | C03<br>4.86              | C03<br>4.86 | C03<br>C04<br>3.24 | C01<br>C02<br>C03<br>C04<br>C05<br>3.89 | C02<br>C04<br>C05<br>4.86 | C04<br>C05<br>4.86 | C03<br>C04<br>C05<br>4.86 | C04<br>1.62                             | C04<br>1.62                             |
| 36      | 15EC751     | 6.79                   | C01<br>C02<br>C03<br>C04<br>C05<br>5.43 | C02<br>C03<br>C04<br>C05<br>5.09        |   |                                 |  |                          |             |                    |   |                           |                    |                           | C01<br>C02<br>C03<br>C04<br>C05<br>5.88 | C01<br>C02<br>C03<br>C04<br>C05<br>6.34 |
| 37      | 15EC52      | 8.8                    | C01<br>C02<br>C03<br>C04<br>C05<br>8.8  |   | C01<br>C02<br>C03<br>C04<br>C05<br>5.28 |                                 | C01<br>C02<br>C03<br>C04<br>C05<br>8.8 |                          |             |                    |   |                           |                    |                           | C01<br>C02<br>C03<br>C04<br>C05<br>8.8  | C01<br>C02<br>C03<br>C04<br>C05<br>8.8  |
| 38      | 15EC53      | 8.24                   | C01<br>C02<br>C03<br>C04<br>C05<br>8.24 | C02<br>C03<br>C04<br>C05<br>6.87        |   |                                 | C03<br>C04<br>C05<br>8.24              |                          |             |                    |   |                           |                    |                           | C01<br>C02<br>C03<br>C04<br>C05<br>8.24 | C03<br>C04<br>C05<br>5.49               |
| 39      | 15EC654     | 5.67                   | C01<br>C02<br>C03<br>C04<br>C05<br>5.67 | C01<br>C02<br>C03<br>C04<br>C05<br>5.67 |   |                                 |  |                          |             |                    |   |                           |                    |                           | C04<br>3.78                             | C01<br>C02<br>C03<br>C04<br>C05<br>5.67 |
| 40      | 15EC54      | 3.83                   | C01<br>C02<br>C03<br>C04<br>C05<br>3.83 | C01<br>C02<br>C03<br>C04<br>C05<br>3.32 |   |                                 |  |                          |             |                    |   |                           |                    |                           | C04<br>C05<br>1.28                      | C01<br>C02<br>C03<br>C04<br>C05<br>2.81 |

| Sl. No. | Course Code | CO Attainment 10 Scale | PO1                                     | PO2                                     | PO3                | PO4                       | PO5                                     | PO6         | PO7 | PO8 | PO9                | PO10                                    | PO11 | PO12        | PSO1                                    | PSO2                                    |  |
|---------|-------------|------------------------|---|---|--------------------|---------------------------|---|-------------|-----|-----|--------------------|---|------|-------------|---|---|--|
| 41      | 15EC555     | 8.11                   | C01<br>C02<br>C03<br>C04<br>C05<br>8.11 | C01<br>C02<br>C03<br>C04<br>C05<br>8.11 |                    |                           | C02<br>5.41                             |             |     |     |                    |   |      |             | C01<br>C02<br>C03<br>C04<br>C05<br>8.11 | C03<br>8.11                             |  |
| 42      | 15ECL57     | 5.66                   | C01<br>C02<br>C03<br>C04<br>C05<br>5.66 | C01<br>C02<br>C03<br>C04<br>C05<br>4.15 |                    |                           | C01<br>C02<br>C03<br>C04<br>C05<br>5.66 |             |     |     |                    | C01<br>C02<br>C03<br>C04<br>C05<br>4.53 |      |             | C01<br>C02<br>C03<br>C04<br>C05<br>5.66 | C01<br>C02<br>C03<br>C04<br>C05<br>5.66 |  |
| 43      | 15ECL58     | 9.26                   | C01<br>C02<br>C03<br>C04<br>C05<br>9.26 | C01<br>C02<br>C03<br>C05<br>9.26        |                    |                           | C01<br>C02<br>C03<br>C05<br>9.26        |             |     |     | C01<br>C02<br>9.26 | C03<br>C05<br>9.26                      |      |             | C01<br>C02<br>C03<br>C04<br>C05<br>8.03 | C01<br>C02<br>C03<br>C05<br>6.17        |  |
| 44      | 15EC61      | 6.49                   | C01<br>C02<br>C03<br>C04<br>C05<br>6.49 | C01<br>C02<br>C03<br>C04<br>C05<br>5.19 | C01<br>C03<br>5.41 | C02<br>C04<br>C05<br>5.77 |   |             |     |     |                    |   |      |             | C01<br>C02<br>C03<br>C04<br>C05<br>6.06 | C01<br>C02<br>C03<br>C04<br>C05<br>6.49 |  |
| 45      | 15EC62      | 8.16                   | C01<br>C02<br>C03<br>C04<br>C05<br>8.16 | C01<br>C02<br>C03<br>C04<br>C05<br>8.16 |                    |                           | C02<br>C05<br>5.44                      |             |     |     |                    |   |      |             |   | C01<br>C02<br>C03<br>C04<br>C05<br>8.16 |  |
| 46      | 15EC562     | 3.19                   | C01<br>C02<br>C03<br>C04<br>C05<br>3.19 | C01<br>C02<br>C03<br>C04<br>C05<br>3.19 |                    |                           | C01<br>C02<br>C03<br>C04<br>C05<br>2.13 |             |     |     |                    |   |      |             |   | C01<br>C02<br>C03<br>C04<br>C05<br>2.13 |  |
| 47      | 15EC63      | 8.33                   | C01<br>C02<br>C03<br>C04<br>C05<br>8.33 | C01<br>C02<br>C03<br>C04<br>C05<br>8.33 |                    |                           | C01<br>C02<br>5.55                      |             |     |     |                    |   |      | C05<br>2.78 | C01<br>C02<br>C03<br>C04<br>C05<br>8.33 |   |  |
| 48      | 15EC663     | 3.01                   | C01<br>C02<br>C03<br>C04<br>C05<br>3.01 | C02<br>C03<br>C04<br>C05<br>2.51        |                    |                           | C03<br>C04<br>C05<br>3.01               |             |     |     |                    |   |      |             | C01<br>C02<br>C03<br>C04<br>C05<br>3.01 | C03<br>C04<br>C05<br>2.01               |  |
| 49      | 15EC64      | 4.56                   | C01<br>C02<br>C03<br>C04<br>C05<br>4.56 | C01<br>C02<br>C03<br>C04<br>C05<br>4.56 |                    |                           | C01<br>C02<br>C03<br>C05<br>4.56        | C03<br>1.52 |     |     |                    |   |      |             | C02<br>C03<br>C04<br>2.03               | C01<br>C02<br>C03<br>C04<br>C05<br>4.56 |  |

| Sl. No. | Course Code | CO Attainment 10 Scale | PO1                                     | PO2                                     | PO3                                     | PO4                                     | PO5                                     | PO6 | PO7 | PO8 | PO9                | PO10               | PO11 | PO12 | PS01                                    | PS02                                    |
|---------|-------------|------------------------|---|---|---|---|---|-----|-----|-----|--------------------|--------------------|------|------|---|---|
| 50      | 15CS664     | 7.99                   |   | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>7.99 | CO3<br>CO4<br>CO5<br>7.1                |   | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>7.99 |     |     |     |                    |                    |      |      | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>2.66 |   |
| 51      | 15ECL67     | 9.89                   | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>9.89 | CO1<br>CO2<br>CO3<br>CO5<br>9.89        |   |   | CO1<br>CO2<br>CO5<br>9.89               |     |     |     |                    | CO4<br>CO5<br>9.89 |      |      | CO1<br>CO2<br>CO3<br>CO5<br>9.89        | CO1<br>CO2<br>CO5<br>6.59               |
| 52      | 15ECL68     | 7.71                   | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>7.71 | CO1<br>CO2<br>CO3<br>CO5<br>7.71        |   |   | CO1<br>CO2<br>CO3<br>CO5<br>7.71        |     |     |     | CO1<br>CO2<br>7.71 | CO3<br>CO5<br>7.71 |      |      | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>6.68 | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>6.68 |
| 53      | 15EC71      | 7.99                   | CO1<br>CO2<br>CO3<br>CO4<br>5.99        | CO1<br>CO2<br>CO3<br>CO4<br>2.66        |   |   | CO5<br>2.66                             |     |     |     |                    |                    |      |      |   | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>7.99 |
| 54      | 15EC72      | 6.96                   | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>6.5  | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>4.18 |   |   |   |     |     |     |                    |                    |      |      | CO1<br>4.64                             | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>6.96 |
| 55      | 15EC73      | 8.2                    | CO1<br>CO2<br>8.2                       | CO1<br>CO2<br>8.2                       | CO3<br>CO4<br>CO5<br>8.2                | CO3<br>CO4<br>CO5<br>5.47               | CO2<br>CO3<br>CO4<br>CO5<br>5.47        |     |     |     |                    |                    |      |      | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>4.92 |   |
| 56      | 15ECL76     | 9.66                   | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>9.02 | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>7.73 | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>8.37 | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>7.08 | CO1<br>CO2<br>9.66                      |     |     |     |                    |                    |      |      | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>9.66 | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>9.66 |
| 57      | 15ECL77     | 8.69                   | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>8.69 | CO1<br>CO2<br>CO3<br>CO5<br>8.69        |   |   | CO1<br>CO2<br>CO3<br>CO5<br>8.69        |     |     |     | CO1<br>CO2<br>8.69 | CO3<br>CO5<br>8.69 |      |      | CO1<br>CO2<br>CO3<br>CO4<br>CO5<br>7.53 |   |
| 58      | 15ECP78     | 10                     | CO1<br>CO2<br>CO3<br>CO4<br>10          |   |   |   |   |     |     |     |                    |                    |      |      |   |   |



| Sl. No. | Course Code | CO Attainment 10 Scale | PO1                                     | PO2                                   | PO3                                   | PO4                                   | PO5                                   | PO6                                   | PO7                                   | PO8                                   | PO9                                   | PO10                                  | PO11                                  | PO12                                  | PSO1                                    | PSO2                                    |
|---------|-------------|------------------------|---|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---|---|
| 59      | 15EC81      | 10                     | C01<br>C02<br>C03<br>C04<br>C05<br>10   | C01<br>C02<br>C03<br>C04<br>C05<br>10 |                                       |                                       |                                       |                                       |                                       |                                       |                                       |                                       |                                       |                                       | C01<br>C02<br>C04<br>4.44               | C01<br>C02<br>C03<br>C04<br>C05<br>10   |
| 60      | 15EC82      | 10                     | C01<br>C02<br>C03<br>C04<br>C05<br>8.67 | C02<br>C03<br>C04<br>C05<br>10        |                                       |                                       |                                       |                                       |                                       |                                       |                                       |                                       |                                       |                                       | C01<br>C02<br>C03<br>C04<br>C05<br>8.67 | C01<br>C02<br>C03<br>C04<br>C05<br>9.33 |
| 61      | 15EC84      | 10                     | C01<br>C05<br>10                        | C01<br>C05<br>10                      | C01<br>C05<br>10                      | C01<br>C05<br>10                      | C01<br>C04<br>C05<br>10               | C01<br>C02<br>C03<br>C04<br>10        | C01<br>10                             | C01<br>C02<br>C03<br>C04<br>10        | C01<br>C02<br>C03<br>C04<br>10        | C01<br>C02<br>C03<br>C04<br>10        | C01<br>C02<br>C03<br>C04<br>10        | C01<br>C02<br>C03<br>C04<br>C05<br>10 | C01<br>C02<br>C03<br>C04<br>C05<br>7.33 | C01<br>C02<br>C03<br>C04<br>C05<br>7.33 |
| 62      | 15ECP85     | 10                     | C01<br>C02<br>C03<br>C04<br>C05<br>10   | C01<br>C02<br>C03<br>C04<br>C05<br>10 | C01<br>C02<br>C03<br>C04<br>C05<br>10 | C01<br>C02<br>C03<br>C04<br>C05<br>10 | C01<br>C02<br>C03<br>C04<br>C05<br>10 | C01<br>C02<br>C03<br>C04<br>C05<br>10 | C01<br>C02<br>C03<br>C04<br>C05<br>10 | C01<br>C02<br>C03<br>C04<br>C05<br>10 | C01<br>C02<br>C03<br>C04<br>C05<br>10 | C01<br>C02<br>C03<br>C04<br>C05<br>10 | C01<br>C02<br>C03<br>C04<br>C05<br>10 | C01<br>C02<br>C03<br>C04<br>C05<br>10 | C01<br>C02<br>C03<br>C04<br>C05<br>10   | C01<br>C02<br>C03<br>C04<br>C05<br>10   |
| 63      | 15ECS86     | 10                     | C01<br>C02<br>C03<br>C04<br>C05<br>10   | C01<br>C02<br>C03<br>C04<br>C05<br>10 | C01<br>C02<br>C03<br>C04<br>C05<br>10 | C01<br>C02<br>C03<br>C04<br>C05<br>10 | C01<br>C02<br>C03<br>C04<br>C05<br>10 | C01<br>C02<br>C03<br>C04<br>C05<br>10 | C01<br>C02<br>C03<br>C04<br>C05<br>10 | C01<br>C02<br>C03<br>C04<br>C05<br>10 | C01<br>C02<br>C03<br>C04<br>C05<br>10 | C01<br>C02<br>C03<br>C04<br>C05<br>10 | C01<br>C02<br>C03<br>C04<br>C05<br>10 | C01<br>C02<br>C03<br>C04<br>C05<br>10 | C01<br>C02<br>C03<br>C04<br>C05<br>10   | C01<br>C02<br>C03<br>C04<br>C05<br>10   |

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# CANARA ENGINEERING COLLEGE

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Mangalore – 574219



Electronics and Communication Engineering Department

## CO-PO FEEDBACK ANALYSIS AND ACTION TAKEN REPORT

ACADEMIC YEAR 2019-2020

| POs  | Target Level | Attainment Level | Observations  | Action Taken  |
|--|--------------|------------------|---|---|
| <b>PO1: Engineering knowledge:</b> Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems. |              |                  |   |   |
| PO1  | 5.92         | 6.8              | <ul style="list-style-type: none"><li>• Attained 14.86% higher than the target level</li><li>• Higher attainment level is because of good performance of students in SEE and CIE</li><li>• High contributing courses for attainment 15EC34, 15EC35, 15EC835, 15EC36, 15ECL37, 15ECL38, 15MAT41, 15EC42, 15EC44, 15EC744, 15EC45, 15EC46, 15ECL47, 15ECL48, 15EC751, 15EC52, 15EC53, 15EC555, 15ECL58, 15EC61, 15EC62, 15EC63, 15CS664, 15EC84, 15ECP85 and 15ECS86</li><li>• Attainment level is satisfactory</li></ul> | <p><b>Action 1:</b> Target level for AY 2017-18 will be increased</p> <p><b>Action 2:</b> Continuous efforts are made to achieve the new set target level</p> |

|   |             |             |  |   |
|---|-------------|-------------|--|---|
| <b>PO2: Problem analysis:</b> Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.   |             |             |  |   |
| <b>PO2</b>  | <b>5.53</b> | <b>6.16</b> | <ul style="list-style-type: none"> <li>• Attained 11.39% higher than the target level</li> <li>• Higher attainment level is because of good performance of students in SEE and CIE</li> <li>• High contributing courses for attainment 15EC33, 15EC34, 15EC835, 15EC36, 15ECL37, 15ECL38, 15MAT41, 15EC42, 15EC44, 15EC744, 15EC45, 15EC46, 15ECL47, 15ECL48, 15EC751, 15EC52, 15EC53, 15EC654, 15EC555, 15ECL57, 15ECL58, 15EC61, 15EC62, 15EC63, 15CS664, 15EC84, 15ECP85 and 15ECS86</li> <li>• Attainment level is satisfactory</li> </ul> | <p><b>Action 1:</b> Target level for AY 2017-18 will be increased</p> <p><b>Action 2:</b> Continuous efforts are made to achieve the new set target level</p> |
| <b>PO3: Design/development of solutions:</b> Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations. |             |             |  |   |
| <b>PO3</b>  | <b>6.34</b> | <b>6.64</b> | <ul style="list-style-type: none"> <li>• Attained 4.73% higher than the target level</li> <li>• Higher attainment level is because of good performance of students in SEE and CIE</li> <li>• High contributing courses for attainment 15EC42, 15EC45, 15ECL48, 15EC52, 15EC61, 15CS664, 15EC84, 15ECP85 and 15ECS86</li> <li>• Attainment level is satisfactory</li> </ul>   | <p><b>Action 1:</b> Target level for AY 2017-18 will be increased</p> <p><b>Action 2:</b> Continuous efforts are made to achieve the new set target level</p> |
| <b>PO4: Conduct investigations of complex problems:</b> Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.  |             |             |  |   |
| <b>PO4</b>  | <b>7.77</b> | <b>7.3</b>  | <ul style="list-style-type: none"> <li>• Shortfall of 6% in the attainment level</li> <li>• Lower attainment is due to below average performance in VTU exam in the courses</li> </ul>   | <b>Action 1:</b> To attain outcome of course 15ES51 in topics on management and planning, organizing, staffing and directing activities in an organization    |

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|--|------|------|--|--|
|  |      |      | <p>15ES51, 15EC61, 15EC84, 15ECP85 and 15ECS86</p> <ul style="list-style-type: none"> <li>• Student feedback is low</li> <li>• Attainment level is good</li> </ul>   | <p>are is to be explained in much better detail and made to be appreciated well</p> <p>To attain outcome topics on ethics in business and family business and entrepreneurship and ideation setting up SSI and institutes to seek technical/ financial support are to be explained in more detail</p> <p>To attain outcome project management and project design are to be explained in detail</p> <p><b>Action 2:</b> To strengthen the CO in 15EC61, more problems on various topics of different types are solved</p> |
| <p><b>PO5: Modern tool usage:</b> Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.</p>   |      |      |  |  |
| PO5  | 6.03 | 6.39 | <ul style="list-style-type: none"> <li>• Attained 5.97% higher than the target level</li> <li>• Higher attainment level is because of good performance of students in SEE and CIE</li> <li>• High contributing courses for attainment 15EC34, 15ECL38, 15EC42, 15EC44, 15EC46, 15ECL47, 15EC52, 15EC53, 15EC555, 15ECL57, 15ECL58, 15EC62, 15EC63, 15CS664, 15EC84, 15ECP85 and 15ECS86</li> <li>• Attainment level is satisfactory</li> </ul> | <p><b>Action 1:</b> Target level for AY 2017-18 will be increased</p> <p><b>Action 2:</b> Continuous efforts are made to achieve the new set target level</p>  |
| <p><b>PO6: The engineer and society:</b> Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.</p> |      |      |  |  |

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| PO6   | 7.39 | 8.58 | <ul style="list-style-type: none"> <li>• Attained 16.10% higher than the target level</li> <li>• Higher attainment level is because of good performance of students in SEE and CIE</li> <li>• High contributing course for attainment 15ECL48, 15EC84, 15ECP85 and 15ECS86</li> <li>• Attainment level is very good</li> </ul> | <p><b>Action 1:</b> Target level for AY 2017-18 will be increased</p> <p><b>Action 2:</b> Continuous efforts are made to achieve the new set target level</p>   |
| <b>PO7: Environment and sustainability:</b> Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development. |      |      |  |   |
| PO7   | 8.45 | 9.06 | <ul style="list-style-type: none"> <li>• Attained 7.21% higher than the target level</li> <li>• Higher attainment level is because of good performance of students in SEE and CIE</li> <li>• High contributing courses for attainment 15EC84, 15ECP85 and 15ECS86</li> <li>• Attainment level is excellent</li> </ul>          | <p><b>Action 1:</b> Target level for AY 2017-18 will be increased</p> <p><b>Action 2:</b> Continuous efforts are made to achieve the new set target level</p> <p><b>Action 3:</b> Activities/talks other than the curriculum was initiated and suggest students to take up more research/self-learning in Projects and seminar, pertaining to sustainable development</p> |
| <b>PO8: Ethics:</b> Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.  |      |      |  |   |
| PO8   | 7.67 | 8.45 | <ul style="list-style-type: none"> <li>• Attained 10.16% higher than the target level</li> <li>• Higher attainment level is because of good performance of students in SEE and CIE</li> <li>• High contributing courses for attainment 15EC84, 15ECP85 and 15ECS86</li> <li>• Attainment level is very good</li> </ul>         | <p><b>Action 1:</b> Target level for AY 2017-18 will be increased</p> <p><b>Action 2:</b> Continuous efforts are made to achieve the new set target level</p> <p><b>Action 3:</b> Conduction of sessional in Theory/Labs in conformance to strict and uniform practices taking care to note deviations from ethical practices</p>   |


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|--|-------------|-------------|--|--|
|  |             |             |  | <p>under the review of the disciplinary committee</p> <p><b>Action 4:</b> Students need to be made aware of Lapses/misbehavior/unethical practices by an interaction after which they acknowledge it openly and apologize for it</p> <p><b>Action 5:</b> Students are encouraged to take a serious note of giving due credence to original contributors in their thesis in Projects/seminar</p> <p><b>Action 6:</b> College calendar makes note of ethical practices for a student which is further crystallized in the college prayer</p> |
| <b>PO9: Individual and teamwork:</b> Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.   |             |             |  |  |
| <b>PO9</b>   | <b>7.1</b>  | <b>7.4</b>  | <ul style="list-style-type: none"> <li>• Attained 4.22% higher than the target level</li> <li>• Higher attainment level is because of good performance of students in SEE and CIE</li> <li>• High contributing courses for attainment 15EC46, 15ECL47, 15ECL58, 15ECL68, 15ECL77, 15EC84, 15ECP85 and 15ECS86</li> <li>• Attainment level is good</li> </ul> | <p><b>Action 1:</b> Target level for AY 2017-18 will be increased</p> <p><b>Action 2:</b> Continuous efforts are made to achieve the new set target level</p> <p><b>Action 3:</b> Mini projects and major projects were initiated to strengthen the CO attainment</p>  |
| <b>PO10: Communication:</b> Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions. |             |             |  |  |
| <b>PO10</b>  | <b>6.99</b> | <b>7.11</b> | <ul style="list-style-type: none"> <li>• Attained 1.71% higher than the target level</li> <li>• Higher attainment level is because of good performance of students in SEE and CIE</li> </ul>   | <b>Action 1:</b> Target level for AY 2017-18 will be increased   |

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|---|------|------|---|---|
|   |      |      | <ul style="list-style-type: none"> <li>• High contributing courses for attainment 15ECL38, 15ECL47, 15ECL58, 15ECL67, 15ECL68, 15ECL77, 15EC84, 15ECP85 and 15ECS86</li> <li>• Attainment level is good</li> </ul>  | <p><b>Action 2:</b> Continuous efforts are made to achieve the new set target level</p> <p><b>Action 3:</b> To concentrate more on Report writing for the activities – Project work, Seminars and Industrial Training</p> <p><b>Action 4:</b> Design-based problems by using more analogies with reference to the Laboratory course 15ECL38 were initiated to strengthen the CO in 15EC34 and to improve CO attainment of 15EC34, more MOORE and MELAY Design problems were explained in class</p> <p><b>Action 5:</b> Tutorial classes were conducted to strengthen the CO in 15EC52, and additional experiments were conducted to improve the attainment of CO in 15ECL57</p> <p>Every code is explained line by line</p> <p>Theoretical concept is explained before taking up every experiment</p> |
| <p><b>PO11: Project management and finance:</b> Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.</p> |      |      |   |   |
| PO11  | 8.65 | 8.85 | <ul style="list-style-type: none"> <li>• Attained 2.31% higher than the target level</li> <li>• Higher attainment level is because of good performance of students in SEE and CIE</li> <li>• High contributing courses for attainment 15EC84, 15ECP85 and 15ECS86</li> <li>• Attainment level is very good</li> </ul> | <p><b>Action 1:</b> Target level for AY 2017-18 will be increased</p> <p><b>Action 2:</b> Continuous efforts are made to achieve the new set target level</p>   |

|   |             |             |  |   |
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|   |             |             |  | <b>Action 3:</b> To strengthen CO, advised to concentrate more on Managing the Project works, Mini Projects and Activities conducted under Professional society |
| <b>PO12: Life-long learning:</b> Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. |             |             |  |   |
| <b>PO12</b>   | <b>6.08</b> | <b>6.04</b> | <ul style="list-style-type: none"> <li>• Shortfall of 0.65% in the attainment level</li> <li>• Lower attainment is due to below average performance in VTU exam in the courses 15EC33, 15EC46, 15ES51 and 15EC63</li> <li>• Attainment level is satisfactory</li> </ul>  | <b>Action 1:</b> To strengthen CO, advised to concentrate more on Project work, Mini Projects and Seminars  |
| <b>PSO1:</b> Capability to assess and solve mechanical and interdisciplinary engineering problems to meet needs of the society  |             |             |  |   |
| <b>PSO1</b>   | <b>5.87</b> | <b>6.5</b>  | <ul style="list-style-type: none"> <li>• Attained 10.73% higher than the target level</li> <li>• Higher attainment level is because of good performance of students in SEE and CIE</li> <li>• High contributing courses for attainment 15EC34, 15ECL37, 15ECL38, 15MAT41, 15EC42, 15EC46, 15ECL47, 15ECL48, 15EC52, 15EC53, 15EC555, 15ECL58, 15EC61, 15EC62, 15EC63, 15ECL67, 15ECL68, 15ECL76, 15ECL77, 15EC82, 15EC84, 15ECP85 and 15ECS86</li> <li>• Attainment level is satisfactory</li> </ul> | <b>Action 1:</b> To improve attainment, conduction of more Technical activities and to Emphasize on Mini Projects and Projects were initiated                   |
| <b>PSO2:</b> Possesses adequate interpersonal skills to solve managerial and technical issues.  |             |             |  |   |
| <b>PSO2</b>   | <b>5.87</b> | <b>6.5</b>  | <ul style="list-style-type: none"> <li>• Attained 10.73% higher than the target level</li> <li>• Higher attainment level is because of good performance of students in SEE and CIE</li> <li>• High contributing courses for attainment</li> </ul>  | <b>Action 1:</b> To improve attainment, conduction of more Technical activities and to Emphasize on Mini Projects and Projects were initiated                   |



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|--|--|--|--|--|
|  |  |  | 15ECL37, 15EC835, 15EC44, 15EC46,<br>15ECL47, 15ECL48, 15EC52, 15EC555,<br>15ECL58, 15EC61, 15ECL67, 15ECL68,<br>15EC71, 15EC72, 15ECL76, 15EC81,<br>15EC82, 15EC84, 15ECP85 and 15ECS86<br>• Attainment level is satisfactory |  |
|--|--|--|--|--|

  
Signature of HOD

  
Signature of Principal