R.V.R. & J.C.COLLEGE OF ENGINEERING

DEPT. OF ELECTRONICS & COMMUNICATION ENGINEERING (Autonomous)

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| Dovember    | Documentaries of Svilabus Content added or replaced i | n R16 Sylla     | in R16 Syllabus compared to R12 Syllabus |                        |                     |  |
|-------------|---|-----------------|--|------------------------|---------------------|--|
| ret centage |   | H               | R16                                      |                        |                     |  |
| ON'S        | Subject Name  | Subject<br>Code | Subject Name                             | Subject Code Remarks   | Remarks             | Percentage of<br>Syllabus content<br>added or replaced |
|             | Mathamatics I   | EC111           | Differential Equations and Statistics    | EC-101                 | No change           | 0  |
|             | Iduco-I   |                 | Engineering Physics                      | EC-102                 | 1 Unit changed      | 20   |
| 7           |   | FC 113          | Annlied Chemistry                        | EC-103                 | 1.5 units changed   | 30   |
| n r         |   | FC125           | Finitronmental Studies                   | EC-104                 | No change           | 0  |
| 4           |   | LUITU           | Flements of Mechanical Engineering       | EC-105                 | New course          | 100  |
|             |   |                 | Econimics for Engineers                  | EC-106                 | New course          | 100  |
| 2           | Physics Lab.  | EC-161          | Physics lab                              | EC-151                 | No change           | 0  |
| . ~         | Finite France Frankics Lab                            | EC-163          | Engineering Graphics Lab                 | EC-152                 | Change in I unit    | 20   |
| 6           |   |                 | Communication Skills lab                 | EC-153                 | New course          | 100  |
| 10          | Engineering Mathematics - Il                          | EC 121          | Calculus and Numerical Methods           | EC-107                 | 2 Units changed     | 40   |
| 11          |   |                 | Electronic and Electrical Engineering Ma | Ma <sup>+</sup> EC-108 | New course          | 100  |
| 12          | Engineering Chemistry - II                            | EC 123          | Chemistry of Engineering Materials       | EC-109                 | 2 Units changed     | 40   |
|             | Technical English & Communication Skills              | EC 124          | English for Communication                | EC-110                 | 1 Unit changed      | 20   |
| 14          | C-Programming   | EC-114          | Problem Solving with C                   | EC-111                 | No change           | 0  |
| 15          | Professional Ethics And Human Values                  | EC -316         | Professional Ethics and Human Values     | EC-112                 | No change           | 0  |
| 16          | Chemistry Lab   | EC-151          | Chemistry Lab                            | EC-154                 | No change           | 0  |
| 17          | C Programming Lab                                     | EC-153          | C Programming Lab                        | EC-155                 | Change in three exp | 20   |
| 18          |   |                 | Electronics Engineering Workshop         | EC-156                 | New course          | 100  |
| 19          |   |                 | Transformation Techniques                | EC-201                 | New course          | 100  |
| 20          | D Electronic Devices                                  | EC 215          | Electronic Devices and Circuits          | EC-202                 | 1 Unit changed      | 20   |
| 21          | 1 Digital Logic Design                                | EC 214          | Digital Logic Design                     | EC-203                 | 1 Unit changed      | 20   |
| 22          | 2 Circuit Theory                                      | EC 212          | Circuit Theory                           | EC-204                 | No change           | 0  |
| 23          | 3   |                 | Data Structures Through C++              | EC-205                 | New course          | 100  |

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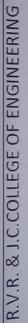
| Percentage of<br>Syllabus content<br>added or replaced | 0                   | sxp 30                 | 20                       | led               | 40                              | 1eu 30   | 70                             | 0   | 10                    | 0                    | 0                                     |                              | 40                                    |                 | 100                   | exp 40                  | 100                                   | 20                         | 20                                   | 20                               | 0                      | 0                      | 0                             | 0   | xp 40                    | exp 40                 | 100            | 100                     | 0                 | 0                         | d , 20         | 0                             | -  |
|--|---------------------|------------------------|--------------------------|-------------------|---------------------------------|--|--------------------------------|---|-----------------------|----------------------|---------------------------------------|------------------------------|---------------------------------------|-----------------|-----------------------|-------------------------|---------------------------------------|----------------------------|--------------------------------------|----------------------------------|------------------------|------------------------|-------------------------------|---|--------------------------|------------------------|----------------|-------------------------|-------------------|---------------------------|----------------|-------------------------------|--|
| Remarks  | No change           | Change in four exp     | Additional               | experiments added | Additional                      | experiments agged  | T UNIT CHANGED                 | No change   | 1 Unit changed        | No change            | No change                             |                              | 2 Units changed                       |                 | New course            | Change in some exp      | New course                            | 1 Unit changed             | 1 Unit changed                       | 1 Unit changed                   | No change              | No change              | No change                     | No change                                     | Change in few exp        | Change in few exp      | New course     | New course              | No change         | No change                 | 1 Unit changed | No change                     |  |
| Subject Code Remarks                                   | EC-206              | EC-251                 | EC-252                   |                   | EC-253                          | FC 207   | EC-20/                         | EC-208  | EC-209                | EC-210               | EC-211                                |                              | EC-212                                |                 | EC-254                | EC-255                  | EC-256                                | EC-301                     | EC-302                               | EC-303                           | EC-304                 | EC-305                 | EC-306                        | b EC-351                                      | EC-352                   | EC-353                 | EC-307         | EC-308                  | EC-309            | EC-310                    | EC-311A        | EC-311B                       | A STATE OF THE PARTY OF THE PAR |
| Subject Name   | Signals and Systems | Electronic Devices Lab | Digital Logic Design Lab |                   | Data Structures through C++ Lab | Country of All and All | Lomplex and Numerical Analysis | Electronic Circuit Analysis                           | Computer Organization | Analog Communication | Electromagnetic Fields & Transmission | Lines                        | Electrical Engineering & Measurements |                 | Signals & Systems Lab | Electronic Circuits Lab | Professional Communication Skills Lab | Pulse and Digital Circuits | Microprocessors & Microcontrollers   | Linear IC's And Its Applications | Digital Communications | Linear Control Systems | Antennas and Wave Propagation | Microprocessors & Microcontrollers Lab EC-351 | Analog Communication Lab | Circuit Simulation Lab | HDL Programing | Graphical System Design | Computer Networks | Digital Signal Processing | TV Engineering | Electromagnetic Compatability |  |
| Subject<br>Code  | EC -224             | EC 251                 | EC-252                   |                   | EC-262                          | LC 224   | T77-73                         | EC-223  | EC -326               | EC -315              | EC -226                               |                              | EC -227                               |                 |                       | EC-261                  |                                       | EC -314                    | EC -322                              | EC -321                          | EC -323                | EC -311                | EC -325                       | EC-362  | EC-351                   | EC-352                 |                |                         | EC - 412          | EC -324                   | EC -326        | EC -326                       |  |
| Subject Name   | Signals And Systems | Electronic Devices Lab | Digital Logic Design Lab |                   | Data Structures Lab             | Encineering Mathematics IV   |                                | Electronic Circuits – I & Electronic Circuits -<br>II | Computer Organization | Analog Communication | Transmission Lines And Waveguides &   | Electromagnetic Field Theory | Electronic Measurements and           | Instrumentation |                       | Electronic Circuits Lab |                                       | Pulse Circuits             | Microprocessors and Microcontrollers | Linear ICs and Applications      | Digital Communications | Linear Control Systems | Antennas and Wave Propagation | Microprocessors & Microcontrollers Lab        | Analog Communication Lab | Oops and Pspice Lab    |                |                         | Computer Networks | Digital Signal Processing |                | Electromagnetic Compatability |  |
| S.No   | 24 Si               | 25 E                   | 26 D                     |                   | 27                              | T  | T                              | 29  | 30                    | 31                   | 32                                    |                              | 33                                    |                 | 34                    | 35                      | 36                                    | 37                         | 38                                   | 39                               | 40                     | 41                     | 42                            | 43  | 44                       | 45                     | 46             | 47                      | 48                | 49                        | 50             | 51                            |  |

| Subject Code     Remarks     Syllabus content       EC-311D     No change     0                                    |
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| ew course 100  |
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| New course<br>1 Unit changed<br>New course   |
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| EC-312A<br>EC-312B<br>EC-312C  |
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| Operating Systems<br>Neural Networks<br>Fuzzy Logic<br>Spread Spectrum Communications<br>Digital Communication Lab |
| Operating Systems<br>Neural Networks<br>Fuzzy Logic<br>Spread Spectrum Commun<br>Digital Communication Lab         |
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| EC - 424<br>EC-361   |
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| Percentage of<br>Syllabus content<br>added or replaced | hanged 20              | nanged 20               | ge 0             | nanged 20      | Irse 100         | irse 100                | irse 100                   | rse 100           | ge 0                      | ge 0                                     | e 0                     | Percentage change in content 34 |
|--|------------------------|-------------------------|------------------|----------------|------------------|-------------------------|----------------------------|-------------------|---------------------------|--|-------------------------|---------------------------------|
| Remark   | 1 Unit changed         | 1 Unit changed          | No change        | 1 Unit changed | New course       | New course              | New course                 | New course        | No change                 | No change                                | No change               | age chang                       |
| Subject Code Remarks                                   | EC-408                 | EC-409A                 | EC-409B          | EC-409C        | EC-409D          | EC-410A                 | EC-410B                    | EC-410C           | EC-410D                   | EC-454                                   | EC-455                  | Percenta                        |
| Subject Name   | Optical Communications | Satellite Communication | Embedded Systems | DSP Processors | RF System Design | Wireless Adhoc Networks | Real Time Operating System | Speech Processing | Radar & Navigational Aids | Microwave & Optical Communication<br>Lab | Project and Viva - Voce |                                 |
| Subject<br>Code  | EC - 422               | EC - 424                | EC - 424         | EC - 424       |                  |                         |                            |                   | EC-423                    | EC-461                                   | EC-462                  |                                 |
| Subject Name   | Optical Communications | Satellite Communication | Embedded Systems | DSP Processors |                  |                         |                            |                   | Radar & Navigational Aids | Microwave & Optical Communication Lab    | Project and Viva - Voce |                                 |
| S.No   | 84                     | 85                      | 86               | 87             | 88               | 89                      | 06                         | 91                | 92                        | 93                                       | 94                      |                                 |

(Dr.T. RANGA BABU) Professor & Head



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## (Autonomous) DEPT. OF ELECTRONICS & COMMUNICATION ENGINEERING



| Percenta | Percentage of Syllabus Content added or replaced   | in R18 Sy       | added or replaced in R18 Syllabus compared to R16 Syllabus |                 |                       |  |
|----------|--|-----------------|--|-----------------|-----------------------|--|
| R16      |  |                 | R18  |                 |                       |  |
| S.No     | Subject Name                                       | Subject<br>Code | Subject Code   | Subject<br>Name | Remarks               | Percentage of<br>Syllabus content<br>added or replaced |
| 1        | Differential Equations and Statistics              | EC-101          | Mathematics-I  | EC111           | 1.5 Units are changed | 40   |
| 2        | Applied Chemistry                                  | EC-103          | Engineering Chemistry                                      | EC112           | 1.5 Units are changed | 40   |
| 3        |  |                 | Basic Electrical Engineering                               | EC113           | New Course            | 100  |
| 4        | Chemistry lab                                      | EC-154          |  | EC151           | No change             | 0  |
| 5        |  |                 | Basic Electrical Engineering Lab                           | EC152           | New Course            | 100  |
| 9        | Engineering Graphics Lab                           | EC-152          | Lab  | EC153           | No change             | 0  |
| 7        |  |                 | Environmental Science                                      | MC 002          | New Course            | 100  |
| 8        | Calculus and Numerical Methods                     | EC-107          | Mathematics-II   | EC121           | 1 Unit changed        | 25   |
| 6        | Engineering Physics                                | EC-102          | Engineering Physics  | EC122           | No change             | 0  |
| 10       | Problem Solving with C                             | EC-111          | Programing for Problem Solving                             | EC123           | No change             | 0  |
| 11       | English for Communication                          | EC-110          | English for Communication Skills                           | EC124           | No change             | 0  |
| 12       | Physics lab  | EC-151          | Physics Lab  | EC161           | No change             | 0  |
| 13       | C Programming Lab                                  | EC-155          | Programing for Problem Solving Lab                         | EC162           | No change             | 0  |
| 14       |  |                 | Workshop Practice Lab                                      | EC163           | New Course            | 100  |
| 15       | Communication Skills lab                           | EC-153          | English Language Communication Skills Lab EC164            | EC164           | No change             | 0  |
| 16       |  |                 | Constitution of India                                      | MC 001          | New Course            | 100  |
| 17       |  |                 | Essence of Indian Traditional Knowledge                    | MC 003          | New Course            | 100  |
| 18       | Transformation Techniques                          | EC-201          | Mathematics-III  | EC211           | 1 Unit changed        | 25   |
| 19       |  | EC-202          | Electronic Devices   | EC212           | 1.5 Units are changed | 40   |
| 20       | Signals and Systems                                | EC-206          | Signals and Systems  | EC213           | 1.5 Units are changed | 40   |
| 21       | Circuit Theory                                     | EC-204          | Circuit Theory   | EC214           | No change             | 0  |
| 22       | Electromagnetic Fields & Transmission Lines EC-211 | s EC-211        | Electromagnetic Field Theory                               | EC215           | 1.5 Units are changed | 40   |
| 23       | Electronic Devices Lab                             | EC-251          | Electronic Devices Lab                                     | EC251           | No change             | 0  |
| 24       | Professional Communication Skills Lab              | EC-256          | Communicative English Lab                                  | EC252           | No change             | 0  |
| 25       |  |                 | Basic Civil & Mechanical Engineering                       | EC221           | New Course            | 100  |
| 26       |  |                 | Life Sciences for Engineers                                | EC222           | New Course            | 100  |
| 27       | 7 Digital Logic Design                             | EC-203          | Digital Electronics & Logic Design                         | EC223           | 1 Unit changed        | 25   |
| 28       | 8  |                 | Network Analysis & Transmission Lines                      | EC224           | New Course            | 100  |
| 29       | 9 Electronic Circuit Analysis                      | EC-208          | Analog Circuits  | EC225           | No change             | 0  |

| 30     Final Signals & Systems lab     EC234     Bignals & Systems lab     EC232     New Course       31     Signals & Systems lab     EC 33     Signals & Systems lab     EC 33     No change       32     Jogital Logic Design Lab     EC 33     Digital Electronics & Logic Design Lab     EC 33     No change       33     Control Engineering     EC 330     Common Systems lab     EC 33     No change       34     Control Engineering     EC 330     Common Systems lab     No change       35     Computer Networks     EC 330     Communication     MC 00     New Course       36     Integrated Engineering (ab     EC 330     Communication     EC 31     No change       37     Analog Communication     EC 31     No change     No change       38     Integrated Engineering (ab     EC 31     No change     No change       39     Electronic Circuits Lab     EC 31     No change     No change       39     Electronic Circuits Lab     EC 32     No change     No change       41     Microprocessors & Nicrocontrolier Lab     EC 31<   | S.No                  | Subject Name                           | Subject<br>Code       | Subject Code  | Subject<br>Name | Remarks                             | Percentage of<br>Syllabus content<br>added or replaced |  |    |                         |       |                 |       |           |   |   |    |  |  |                             |       |            |     |   |    |  |  |   |       |            |     |  |    |                         |       |                  |       |           |   |   |    |  |  |                             |        |            |     |  |    |  |  |                                  |        |            |     |   |    |                        |        |                        |        |           |   |   |    |                          |         |                          |        |           |   |   |    |                                    |        |                                  |        |   |   |   |    |  |  |                         |        |   |     |   |    |  |  |                              |        |            |     |   |    |                            |         |                             |        |           |   |                   |    |                  |         |                  |        |           |   |  |    |  |  |                   |        |            |     |
|---|-----------------------|--|-----------------------|---|-----------------|-------------------------------------|--|--|----|-------------------------|-------|-----------------|-------|-----------|---|---|----|--|--|-----------------------------|-------|------------|-----|---|----|--|--|---|-------|------------|-----|--|----|-------------------------|-------|------------------|-------|-----------|---|---|----|--|--|-----------------------------|--------|------------|-----|--|----|--|--|----------------------------------|--------|------------|-----|---|----|------------------------|--------|------------------------|--------|-----------|---|---|----|--------------------------|---------|--------------------------|--------|-----------|---|---|----|------------------------------------|--------|----------------------------------|--------|---|---|---|----|--|--|-------------------------|--------|---|-----|---|----|--|--|------------------------------|--------|------------|-----|---|----|----------------------------|---------|-----------------------------|--------|-----------|---|-------------------|----|------------------|---------|------------------|--------|-----------|---|--|----|--|--|-------------------|--------|------------|-----|
| Signals & Systems lab     EC.254     Signals & Systems lab     EC.262       Pigtal Logic Design Lab     EC.252     Design Thinking & Product Innovation     MC 004       A     Computer Networks     EC.305     Computer Networks     EC311       A     Computer Networks     EC303     Computer Networks     EC313       A     Computer Networks     EC303     Microprocessors & Microcontrollers     EC313       A     Microprocessors & Microcontrollers     EC303     Microprocessors & Microcontrollers     EC314       A     Microprocessors & Microcontrollers     EC-303     Microprocessors & Microcontrollers     EC314       A     Microprocessors & Microcontrollers     EC-315     Analog Communications     EC312       B     Malog Communications     EC-315     Analog Communications     EC321       A     Digital Communications     EC321     EC331     EC331       B     Digital Signal Processing Lab     EC321     EC331       A     Digital Communications     EC321     EC321       B     Digital Signal Processing Lab     EC321     EC314   | 30                    |  |                       | Basic Civil & Mechanical Engineering Lab  | EC261           | New Course                          | 100  |  |    |                         |       |                 |       |           |   |   |    |  |  |                             |       |            |     |   |    |  |  |   |       |            |     |  |    |                         |       |                  |       |           |   |   |    |  |  |                             |        |            |     |  |    |  |  |                                  |        |            |     |   |    |                        |        |                        |        |           |   |   |    |                          |         |                          |        |           |   |   |    |                                    |        |                                  |        |   |   |   |    |  |  |                         |        |   |     |   |    |  |  |                              |        |            |     |   |    |                            |         |                             |        |           |   |                   |    |                  |         |                  |        |           |   |  |    |  |  |                   |        |            |     |
| Poigtal Logic Design Lab     EC-352     Degign Thinking & Product Innovation     MC 004       1     Control Engineering     EC-302     Degign Thinking & Product Innovation     MC 004       5     Computer Networks     EC-302     Control Systems     EC311       7     Control Engineering     EC-302     Computer Networks     EC312       8     Microprocessors & Microcontrollers     EC-303     Communications     EC314       9     Electronic Ltab     EC-310     Communications     EC314       1     Microprocessors & Microcontrollers     EC-314     Microprocessors & Microcontrollers     EC314       1     Nicroprocessors & Microcontrollers     EC-310     Digital Signal Processing     EC323       2     Digital Signal Processing Lab     EC-314     Microprocessors & Microcontroller Lab     EC321       3     Digital Signal Processing Lab     EC310     Digital Signal Processing Lab     EC323       4     Arternas and Wave Propagation     EC432     Microprocessors & Microcontroller Lab     EC323       5     Digital Signal Processing Lab     EC-310     Digital Signal Processing Lab     <  | 31                    | Signals & Systems lab                  | EC-254                |   | EC262           | No change                           | 0  |  |    |                         |       |                 |       |           |   |   |    |  |  |                             |       |            |     |   |    |  |  |   |       |            |     |  |    |                         |       |                  |       |           |   |   |    |  |  |                             |        |            |     |  |    |  |  |                                  |        |            |     |   |    |                        |        |                        |        |           |   |   |    |                          |         |                          |        |           |   |   |    |                                    |        |                                  |        |   |   |   |    |  |  |                         |        |   |     |   |    |  |  |                              |        |            |     |   |    |                            |         |                             |        |           |   |                   |    |                  |         |                  |        |           |   |  |    |  |  |                   |        |            |     |
| B     Design Thinking & Product Innovation     MC 004       1     Control Engineering     EC:305     Control Systems     EC:312       5     Computer Networks     EC:302     Microprocessors & Microcontroller     EC:313       7     Computer Networks     EC:302     Microprocessors & Microcontrollers     EC:314       7     Analog Communication     EC:302     Analog Communications     EC:314       8     Microprocessors & Microcontrollers Lab     EC:302     Analog Communications     EC:314       9     Electronic Circuits Lab     EC:302     Analog Circuits Lab     EC:321     EC:312       10     Microprocessors & Microcontrollers Lab     EC:321     Microprocessors & Microcontrollers Lab     EC:322       2     Digital Signal Processing     EC:321     Microprocessors & Microcontroller Lab     EC:321       3     Digital Signal Processing Lab     EC:310     Digital Signal Processing     EC:322       4     Antennos     EC:31     Digital Signal Processing Lab     EC:321       6     Digital Signal Processing Lab     EC:321     Microprocessors & Microcontroler Lab     EC:321   | 32                    | Digital Logic Design Lab               | EC-252                | Digital Electronics & Logic Design Lab  | EC263           | 6 experiments are changed out of 15 | 40   |  |    |                         |       |                 |       |           |   |   |    |  |  |                             |       |            |     |   |    |  |  |   |       |            |     |  |    |                         |       |                  |       |           |   |   |    |  |  |                             |        |            |     |  |    |  |  |                                  |        |            |     |   |    |                        |        |                        |        |           |   |   |    |                          |         |                          |        |           |   |   |    |                                    |        |                                  |        |   |   |   |    |  |  |                         |        |   |     |   |    |  |  |                              |        |            |     |   |    |                            |         |                             |        |           |   |                   |    |                  |         |                  |        |           |   |  |    |  |  |                   |        |            |     |
| I     Control Engineering     EC-305     Control Systems     EC312       6     Microprocessors & Microcontrollers     EC314     EC313       7     Microprocessors & Microcontrollers     EC314     EC314       8     Analog Communication     EC-305     Analog Circuits & Applications     EC314       9     Electronic Circuits Lab     EC-311     Microprocessors & Microcontrollers     EC314       1     Microprocessors & Microcontrollers Lab     EC-351     Analog Circuits & Applications     EC312       2     Digital Communication     EC-304     Digital Signal Processing     EC321       3     Atternas and Wave Propagation     EC-305     Analog Circuits & Applications Lab     EC322       4     Atternas and Wave Propagation     EC321     EC304     Digital Signal Processing Lab     EC321       6     Digital Signal Processing Lab     EC401     Microwave Engineering     EC321       7     Atternas and Wave Propagation     EC322     EC322     EC322       8     Microwave Engineering     EC412     Microwave Engineering     EC321       8     M   | 33                    |  |                       | Design Thinking & Product Innovation  | MC 004          | New Course                          | 100  |  |    |                         |       |                 |       |           |   |   |    |  |  |                             |       |            |     |   |    |  |  |   |       |            |     |  |    |                         |       |                  |       |           |   |   |    |  |  |                             |        |            |     |  |    |  |  |                                  |        |            |     |   |    |                        |        |                        |        |           |   |   |    |                          |         |                          |        |           |   |   |    |                                    |        |                                  |        |   |   |   |    |  |  |                         |        |   |     |   |    |  |  |                              |        |            |     |   |    |                            |         |                             |        |           |   |                   |    |                  |         |                  |        |           |   |  |    |  |  |                   |        |            |     |
| S     Computer Networks     EC-302     Computer Networks     EC312       7     Microprocessors & Microcontrollers     EC313       9     Analog Communication     EC314       9     Electronic Circuits Lab     EC-302     Microprocessors & Microcontroller     EC315       1     Microprocessors & Microcontrollers Lab     EC-304     Digital Signal Processing     EC322       1     Microprocessors & Microcontrollers Lab     EC-304     Digital Signal Processing     EC322       2     Digital Signal Processing Lab     EC-304     Digital Signal Processing     EC322       3     Digital Signal Processing Lab     EC-304     Digital Signal Processing     EC322       4     Antennas and Wave Propagation     EC323     Digital Signal Processing Lab     EC321       6     Digital Signal Processing Lab     EC-402     VISI Design     EC432       7     VISI Design     Microprocessors & Microcontroller Lab     EC322       8     Microprocessing Lab     EC-402     VISI Design     EC432       9     Digital Signal Processing Lab     EC432     Microcontroller Lab <td< td=""><td>34</td><td>Control Engineering</td><td>EC-305</td><td>Control Systems</td><td>EC311</td><td>No change</td><td>0</td></td<>   | 34                    | Control Engineering                    | EC-305                | Control Systems   | EC311           | No change                           | 0  |  |    |                         |       |                 |       |           |   |   |    |  |  |                             |       |            |     |   |    |  |  |   |       |            |     |  |    |                         |       |                  |       |           |   |   |    |  |  |                             |        |            |     |  |    |  |  |                                  |        |            |     |   |    |                        |        |                        |        |           |   |   |    |                          |         |                          |        |           |   |   |    |                                    |        |                                  |        |   |   |   |    |  |  |                         |        |   |     |   |    |  |  |                              |        |            |     |   |    |                            |         |                             |        |           |   |                   |    |                  |         |                  |        |           |   |  |    |  |  |                   |        |            |     |
| k     Microprocessors & Microcontrollers     EC312     Microprocessors & Microcontroller     EC313       7     integrated Circuits & Applications     EC314       8     Betronic Circuits Lab     EC-215     Analog Communication     EC352       0     Microprocessors & Microcontrollers Lab     EC-210     Digital Signal Processing & Applications Lab     EC351       1     Digital Signal Processing & Microcontrollers Lab     EC-310     Digital Signal Processing Lab     EC312       2     Digital Signal Processing Lab     EC-310     Digital Signal Processing Lab     EC321       3     Digital Signal Processing Lab     EC-310     Digital Signal Processing Lab     EC322       4     Antennas and Wave Propagation     EC321     Manlog Communications Lab     EC322       5     Digital Signal Processing Lab     EC-305     Antennas & Wave Progessing Lab     EC321       6     Microwave Engineering     EC321     Manlog Communications Lab     EC322       7     VISI Design     Microwave Engineering     EC321     EC321       8     Microwave Engineering     EC321     Manlog Signal Processing Lab     EC3   | 35                    | Computer Networks                      | EC-309                | Computer Networks   | EC312           | No change                           | 0  |  |    |                         |       |                 |       |           |   |   |    |  |  |                             |       |            |     |   |    |  |  |   |       |            |     |  |    |                         |       |                  |       |           |   |   |    |  |  |                             |        |            |     |  |    |  |  |                                  |        |            |     |   |    |                        |        |                        |        |           |   |   |    |                          |         |                          |        |           |   |   |    |                                    |        |                                  |        |   |   |   |    |  |  |                         |        |   |     |   |    |  |  |                              |        |            |     |   |    |                            |         |                             |        |           |   |                   |    |                  |         |                  |        |           |   |  |    |  |  |                   |        |            |     |
| 7meter definitionEC310meter definitionsEC3148Analog CommunicationEC310Analog CommunicationEC3159Electronic Circuits LabEC-315Analog CommunicationEC3211Microprocessors & Microcontroller LabEC321EC-323EC-3232Digital Signal ProcessingEC-320Digital Signal ProcessingEC3223Digital Signal ProcessingEC-320Digital Signal ProcessingEC3234Artemas and Wave PropagationEC-320Digital Signal ProcessingEC3235Digital Signal ProcessingEC-402Digital Signal ProcessingEC3236Digital Signal ProcessingEC-403Digital Signal ProcessingEC3237NIS DesignEC-403Digital Signal ProcessingEC3238Microwave EngineeringEC403Digital Signal ProcessingEC3239Microwave EngineeringEC403Digital Signal ProcessingEC4239Microwave EngineeringEC403Digital Signal ProcessingEC4239Microwave EngineeringEC403Digital Signal ProcessingEC4239Microwave EngineeringEC403Digital Signal ProcessingEC4239Microwave EngineeringEC403Project Stage-1EC4239Microwave EngineeringEC403Project Stage-1EC4339Microwave EngineeringEC403Project Stage-1EC4339Microwave EngineeringEC403Project Stag  | 36                    | Microprocessors & Microcontrollers     | EC-302                | Microprocessors & Microcontroller   | EC313           | No change                           | 0  |  |    |                         |       |                 |       |           |   |   |    |  |  |                             |       |            |     |   |    |  |  |   |       |            |     |  |    |                         |       |                  |       |           |   |   |    |  |  |                             |        |            |     |  |    |  |  |                                  |        |            |     |   |    |                        |        |                        |        |           |   |   |    |                          |         |                          |        |           |   |   |    |                                    |        |                                  |        |   |   |   |    |  |  |                         |        |   |     |   |    |  |  |                              |        |            |     |   |    |                            |         |                             |        |           |   |                   |    |                  |         |                  |        |           |   |  |    |  |  |                   |        |            |     |
| 8Analog CommunicationEC310Analog CommunicationEC3169Electronic Circuits LabEC-355Analog Circuits LabEC3521Microprocessors & Microcontroller LabEC353EC3101Digital Signal ProcessingEC320Digital Signal ProcessingEC3232Digital Signal ProcessingEC-310Digital Signal ProcessingEC3233Digital Signal ProcessingEC-306Antennas & Weve Propagations LabEC3234Antennas and Wave PropagationEC-305Antennas & Weve Propagations LabEC3236Digital Signal Processing LabEC-402VISI DesignEC3407VISI DesignEC-402VISI DesignEC4128Mini Project/Term paperEC-402VISI DesignEC4319Mini Project/Term paperEC413Microwave EngineeringEC4329Mini Project/Term paperEC403Microwave EngineeringEC4329Mini Project/Term paperEC403Microwave EngineeringEC4329Mini Project/Term paperEC403Microwave EngineeringEC4329Project and Vva - VoceEC403Information KabelEC4329Project and Vva - VoceEC433Information KabelEC432  | 37                    |  |                       | Integrated Circuits & Applications  | EC314           | New Course                          | 100  |  |    |                         |       |                 |       |           |   |   |    |  |  |                             |       |            |     |   |    |  |  |   |       |            |     |  |    |                         |       |                  |       |           |   |   |    |  |  |                             |        |            |     |  |    |  |  |                                  |        |            |     |   |    |                        |        |                        |        |           |   |   |    |                          |         |                          |        |           |   |   |    |                                    |        |                                  |        |   |   |   |    |  |  |                         |        |   |     |   |    |  |  |                              |        |            |     |   |    |                            |         |                             |        |           |   |                   |    |                  |         |                  |        |           |   |  |    |  |  |                   |        |            |     |
| 9Electronic Circuits LabEC-355Analog Circuits LabEC3510Microprocessors & Microcontrollers LabEC-351Microprocessors & Microcontroller LabEC3511EC-304Digital Signal ProcessingEC321EC3213Digital Signal ProcessingEC-304Digital Signal ProcessingEC3224Anternas and Wave PropagationEC323EC323EC3215Digital Signal ProcessingEC-305Anternas & Wave PropagationEC3236Digital Signal Processing LabEC-402VISI DesignEC4217VISI DesignEC-402VISI DesignEC4128Microwave EngineeringEC-401Microwave EngineeringEC4129Nini Project/Term paperEC401Microwave EngineeringEC4129Mini Project/Term paperEC401Micromanications LabEC4129Mini Project/Term paperEC402VISI DesignEC4129Mini Project/Term paperEC401Micromave EngineeringEC4129Mini Project/Term paperEC403Horactories/EC4129Mini Project/Term paperEC401Micromave EngineeringEC4129Mini Project/Term paperEC403Horactories/EC4129Mini Project/Term paperEC412Project Stage-IEC4129Project and Viva - VoceEC403Project Stage-IEC4129Project and Viva - VoceEC403Project Stage-IEC41210   | 38                    | Analog Communication                   | EC-210                | Analog Communication  | EC316           | No change                           | 0  |  |    |                         |       |                 |       |           |   |   |    |  |  |                             |       |            |     |   |    |  |  |   |       |            |     |  |    |                         |       |                  |       |           |   |   |    |  |  |                             |        |            |     |  |    |  |  |                                  |        |            |     |   |    |                        |        |                        |        |           |   |   |    |                          |         |                          |        |           |   |   |    |                                    |        |                                  |        |   |   |   |    |  |  |                         |        |   |     |   |    |  |  |                              |        |            |     |   |    |                            |         |                             |        |           |   |                   |    |                  |         |                  |        |           |   |  |    |  |  |                   |        |            |     |
| 0     Microprocessors & Microcontrollers Lab     EC-351     Microprocessors & Microcontroller Lab     E       1     Ec-304     Digital Signal Processing     E     E     E     E     Digital Signal Processing     E  | 39                    | Electronic Circuits Lab                | EC-255                | Analog Circuits Lab   | EC351           | 6 programs are changed<br>out of 15 | 40   |  |    |                         |       |                 |       |           |   |   |    |  |  |                             |       |            |     |   |    |  |  |   |       |            |     |  |    |                         |       |                  |       |           |   |   |    |  |  |                             |        |            |     |  |    |  |  |                                  |        |            |     |   |    |                        |        |                        |        |           |   |   |    |                          |         |                          |        |           |   |   |    |                                    |        |                                  |        |   |   |   |    |  |  |                         |        |   |     |   |    |  |  |                              |        |            |     |   |    |                            |         |                             |        |           |   |                   |    |                  |         |                  |        |           |   |  |    |  |  |                   |        |            |     |
| 1     Integrated Circuits & Applications Lab     E       2     Digital Communications     EC-304     Digital Communications     E       3     Digital Signal Processing     EC-310     Digital Signal Processing     E       4     Antennas and Wave Propagation     EC-310     Digital Signal Processing     E       5     Propect Signal Processing Lab     EC-432     VISI Design     E       6     Mintorwave Engineering     EC-432     VISI Design     E       6     Mintorwave Engineering     E     E     E     E       9     Mintorwave Engineering     E     E     E     E     E       9     Mintorwave Engineering     E   | 40                    | Microprocessors & Microcontrollers Lab | EC-351                | Microprocessors & Microcontroller Lab   | EC352           | No change                           | 0  |  |    |                         |       |                 |       |           |   |   |    |  |  |                             |       |            |     |   |    |  |  |   |       |            |     |  |    |                         |       |                  |       |           |   |   |    |  |  |                             |        |            |     |  |    |  |  |                                  |        |            |     |   |    |                        |        |                        |        |           |   |   |    |                          |         |                          |        |           |   |   |    |                                    |        |                                  |        |   |   |   |    |  |  |                         |        |   |     |   |    |  |  |                              |        |            |     |   |    |                            |         |                             |        |           |   |                   |    |                  |         |                  |        |           |   |  |    |  |  |                   |        |            |     |
| 2     Digital Communications     EC-304     Digital Signal Processing     E       3     Digital Signal Processing     EC-310     Digital Signal Processing     E       4     Antennas and Wave Propagation     E     E     Antennas & Wave Propagation     E       5     Digital Signal Processing Lab     EC-310     Digital Signal Processing Lab     E       6     Digital Signal Processing Lab     E     C-412     Mutcowave Engineering     E       7     Microwave Engineering     E     C-412     Mutcowave Engineering     E       8     Microwave Engineering     E     C-412     Mutcowave Engineering     E       9     Mini Project/Term paper     E   | 41                    |  |                       | Integrated Circuits & Applications Lab  | EC353           | New Course                          | 100  |  |    |                         |       |                 |       |           |   |   |    |  |  |                             |       |            |     |   |    |  |  |   |       |            |     |  |    |                         |       |                  |       |           |   |   |    |  |  |                             |        |            |     |  |    |  |  |                                  |        |            |     |   |    |                        |        |                        |        |           |   |   |    |                          |         |                          |        |           |   |   |    |                                    |        |                                  |        |   |   |   |    |  |  |                         |        |   |     |   |    |  |  |                              |        |            |     |   |    |                            |         |                             |        |           |   |                   |    |                  |         |                  |        |           |   |  |    |  |  |                   |        |            |     |
| 3Digital Signal ProcessingE4Antennas and Wave PropagationE4Antennas and Wave PropagationE5Antennas and Wave PropagationE6Digital Signal Processing LabE7VISI DesignEC-402VISI DesignE8Mine Project/Term paperEEProject Stage-IE9Mine Project/Term paperEEAdvanced Communications LabE9Mine Project/Term paperEEAdvanced Communications LabE9PAdvanced CommunicationsEEEE9Advanced CommunicationsEEEEE9PAdvanced CommunicationsEEEE9Advanced CommunicationsEEEEE9PPAdvanced CommunicationsEE9PPDidical CommunicationsEE </td <td>42</td> <td>Digital Communications</td> <td>EC-304</td> <td>Digital Communications</td> <td>EC321</td> <td>No change</td> <td>0</td>  | 42                    | Digital Communications                 | EC-304                | Digital Communications  | EC321           | No change                           | 0  |  |    |                         |       |                 |       |           |   |   |    |  |  |                             |       |            |     |   |    |  |  |   |       |            |     |  |    |                         |       |                  |       |           |   |   |    |  |  |                             |        |            |     |  |    |  |  |                                  |        |            |     |   |    |                        |        |                        |        |           |   |   |    |                          |         |                          |        |           |   |   |    |                                    |        |                                  |        |   |   |   |    |  |  |                         |        |   |     |   |    |  |  |                              |        |            |     |   |    |                            |         |                             |        |           |   |                   |    |                  |         |                  |        |           |   |  |    |  |  |                   |        |            |     |
| 4Antennas and Wave PropagationEC.306Antennas & Wave PropagationE5Digital Signal Processing LabE6Digital Signal Processing LabE7VISI DesignEC.402VISI Design8Minrowve EngineeringEC.402VISI Design9Minrowve EngineeringEC.402VISI Design9Minrowve EngineeringEC.401Minrowve Engineering9Minrowve EngineeringEC.401Project Stage-I9MinroveEC.401Project Stage-I9Project Stage-IProject Stage-I9Project Stage-IEC.4019Project Stage-IEC.4019Project Stage-IEC.40110Project Stage-IIEC.40111Information/Research Projects in National12Project and Viva - VoceEC.40313Project Stage-IIInformation/Research Projects in National14Project Communications & NetworkingE15Project Stage-IIInformation/Research Projects in National16Project CommunicationsEC.40317Advanced CommunicationsE18Advanced CommunicationsE19Project Stage-IIE10Project Stage-IIE11InformationE12Project Stage-IIE13Project CommunicationsE14Project CommunicationsE15Project Stage-IIE1   | 43                    | Digital Signal Processing              | EC-310                | Digital Signal Processing   | EC322           | No change                           | 0  |  |    |                         |       |                 |       |           |   |   |    |  |  |                             |       |            |     |   |    |  |  |   |       |            |     |  |    |                         |       |                  |       |           |   |   |    |  |  |                             |        |            |     |  |    |  |  |                                  |        |            |     |   |    |                        |        |                        |        |           |   |   |    |                          |         |                          |        |           |   |   |    |                                    |        |                                  |        |   |   |   |    |  |  |                         |        |   |     |   |    |  |  |                              |        |            |     |   |    |                            |         |                             |        |           |   |                   |    |                  |         |                  |        |           |   |  |    |  |  |                   |        |            |     |
| 5malog & Digital Signal Processing LabE7Digital Signal Processing LabE7VLSI DesignEC-402VLSI DesignE8Microwave EngineeringEE9Mini Project/Term paperEC-402NLSI DesignE9Mini Project/Term paperEC-402NLSI DesignE9Mini Project/Term paperEC-401Microwave EngineeringE9Mini Project/Term paperEC-402NLSI DesignE9Mini Project/Term paperEC-401Project Stage-IE9Project Term paperEC-402Project Stage-IE9Project Term paperEC-403Project Stage-IE1Project Term paperEC-403Project Stage-IE2Project CommunicationsProject Stage-IEE3Project CommunicationsEEEE4Deta CommunicationsEEEE5Project Stage-IData CommunicationsEE6Mobile and Cellular CommunicationsEEE7Mobile and Cellular CommunicationsEEE8Mobile and Cellular CommunicationsEEE7Mobile and Cellular CommunicationsEEE8Mobile and Cellular CommunicationsEEE9Mobile and Cellular CommunicationsEEE9Mobile and Cellular Communicatio  | 44                    | Antennas and Wave Propagation          | EC-306                | Antennas & Wave Propagation   | EC323           | No change                           | 0  |  |    |                         |       |                 |       |           |   |   |    |  |  |                             |       |            |     |   |    |  |  |   |       |            |     |  |    |                         |       |                  |       |           |   |   |    |  |  |                             |        |            |     |  |    |  |  |                                  |        |            |     |   |    |                        |        |                        |        |           |   |   |    |                          |         |                          |        |           |   |   |    |                                    |        |                                  |        |   |   |   |    |  |  |                         |        |   |     |   |    |  |  |                              |        |            |     |   |    |                            |         |                             |        |           |   |                   |    |                  |         |                  |        |           |   |  |    |  |  |                   |        |            |     |
| 6Digital Signal Processing LabE7VLSI DesignEC-402VLSI DesignE8Microwave EngineeringEE9Min Project/Term paperEC-401Microwave EngineeringE9Min Project/Term paperEEAdvanced Communications LabE9Min Project/Term paperEEAdvanced Communications LabE9Project/Term paperEEAdvanced Communications LabE9Project/Term paperEAdvanced Communications LabE9Project and Viva - VoceEEAcademic IntitutionsE1Project and Viva - VoceEEAcademic IntitutionsE2Project and Viva - VoceEEAcademic IntitutionsE3Project and Viva - VoceEEAcademic IntitutionsE4Academic IntitutionsEAcademic IntitutionsE5Project and Viva - VoceEAcademic IntitutionsE6Academic IntitutionsEAcademic IntitutionsE7Optical CommunicationsEAcademic IntitutionsE8Optical CommunicationsEAcademic IntitutionsE9Optical CommunicationsEAcademic IntitutionsE9Optical CommunicationsEEAcademic IntitutionsE9Optical CommunicationsEEAcademic IntitutionsE9   | 45                    |  |                       | Analog & Digital Communications Lab   | EC361           | New Course                          | 100  |  |    |                         |       |                 |       |           |   |   |    |  |  |                             |       |            |     |   |    |  |  |   |       |            |     |  |    |                         |       |                  |       |           |   |   |    |  |  |                             |        |            |     |  |    |  |  |                                  |        |            |     |   |    |                        |        |                        |        |           |   |   |    |                          |         |                          |        |           |   |   |    |                                    |        |                                  |        |   |   |   |    |  |  |                         |        |   |     |   |    |  |  |                              |        |            |     |   |    |                            |         |                             |        |           |   |                   |    |                  |         |                  |        |           |   |  |    |  |  |                   |        |            |     |
| 17VLSI DesignEC.402VLSI DesignE18Microwave EngineeringEC.401Microwave EngineeringE19Mini Project/Term paperEC.401Microwave EngineeringE10Mini Project/Term paperEC.401Microwave EngineeringE10Mini Project/Term paperEC.401Microwave EngineeringE10Mini Project/Term paperEC.401Advanced Communications LabE11Huductrial Training / Internship /EInductrial Training / Internship /E12Project and Viva - VoceEC.405Project Stage-IIE13Project and Viva - VoceEC.405Project Stage-IIE14Depetation StageInformation Theory & CodingE15Optical CommunicationsEC.403Satellite Communications & NetworkingE14Mobile and Cellular CommunicationsEC.403Satellite CommunicationsE15Mobile and Cellular CommunicationsEC.403Satellite CommunicationsE16Mobile and Cellular CommunicationsEC.403Collular & Mobile CommunicationsE17Mobile and Cellular CommunicationsEC.403Mireless CommunicationsE18Mobile and Cellular CommunicationsEEMireless CommunicationsE19Mobile and Cellular SystemEC.403Mireless CommunicationsE10Mobile and Cellular SystemsEMireless CommunicationsE11Mobile and Cellu   | 46                    | Digital Signal Processing Lab          | EC-453                | Digital Signal Processing Lab   | EC362           | No change                           | 0  |  |    |                         |       |                 |       |           |   |   |    |  |  |                             |       |            |     |   |    |  |  |   |       |            |     |  |    |                         |       |                  |       |           |   |   |    |  |  |                             |        |            |     |  |    |  |  |                                  |        |            |     |   |    |                        |        |                        |        |           |   |   |    |                          |         |                          |        |           |   |   |    |                                    |        |                                  |        |   |   |   |    |  |  |                         |        |   |     |   |    |  |  |                              |        |            |     |   |    |                            |         |                             |        |           |   |                   |    |                  |         |                  |        |           |   |  |    |  |  |                   |        |            |     |
| RMicrowave EngineeringEC-401Microwave EngineeringE0Mini Project/Term paperEC-401Project Stage-IE0Advanced Communications LabE0Project and Viva - VoceEAdvanced Communications LabE1Project and Viva - VoceEC-455Project Stage-IIE2Project and Viva - VoceEC-405Project Stage-IIE3Project and Viva - VoceEC-408Optical Communications & NetworkingE4Deficial CommunicationsData Communications & NetworkingE5Optical CommunicationsEC-408Optical CommunicationsE6Satellite CommunicationsEC-409ASatellite CommunicationsE7Mobile and Cellular CommunicationsEEMireless CommunicationsE8Advanced SystemEEMobile CommunicationsE9FMobile and Cellular CommunicationsEE1Mobile and Cellular CommunicationsEEMireless CommunicationsE1FMobile and Cellular CommunicationsEEE2Mobile and Cellular CommunicationsEEEE3FMobile CommunicationsEEE4FMobile CommunicationsEEE5Mobile and Cellular CommunicationsEEEE6FFFFFE7<  | 47                    | VLSI Design                            | EC-402                | VLSI Design   | EC411           | No change                           | 0  |  |    |                         |       |                 |       |           |   |   |    |  |  |                             |       |            |     |   |    |  |  |   |       |            |     |  |    |                         |       |                  |       |           |   |   |    |  |  |                             |        |            |     |  |    |  |  |                                  |        |            |     |   |    |                        |        |                        |        |           |   |   |    |                          |         |                          |        |           |   |   |    |                                    |        |                                  |        |   |   |   |    |  |  |                         |        |   |     |   |    |  |  |                              |        |            |     |   |    |                            |         |                             |        |           |   |                   |    |                  |         |                  |        |           |   |  |    |  |  |                   |        |            |     |
| 10Mini Project/Term paperEC451Project Stage-IE20Advanced Communications LabE21Advanced Communications LabE22Project and Viva - VoceEC455Project Stage-II23Project and Viva - VoceEC455Project Stage-IIE34Continuation Theory & ColingE35Optical Communications & NetworkingE4Data Communications & NetworkingE5Optical CommunicationsE6Satellite CommunicationsE7Mobile and Cellular CommunicationsE7Mobile and Cellular CommunicationsE7Mobile and Cellular CommunicationsE8Fordered SystemE9Fordered SystemsE9Feadered SystemsE9Fendeded SystemsE <tr <td="">F9<td< td=""><td>48</td><td>Microwave Engineering</td><td>EC-401</td><td>Microwave Engineering</td><td>EC412</td><td>No change</td><td>0</td></td<></tr> <tr><td>60     Advanced Communications Lab     E       61     Inductrial Training / Internship / Intern</td><td>49</td><td>Mini Project/Term paper</td><td>EC451</td><td>Project Stage-I</td><td>EC451</td><td>No change</td><td>0</td></tr> <tr><td>1   Inductrial Training / Internship / Internship / Internship / Internship / Internship / Certification/Research Projects in National I aboratories / Academic Intitutions     2   Project and Viva - Voce   EC455   Project Stage-II   E     3   Project and Viva - Voce   EC455   Project Stage-II   E     4   Data Communications &amp; Networking   E     5   Optical Communications &amp; Networking   E     6   Satellite Communications   EC-408   Optical Communications   E     7   Mobile and Cellular Communications   EC-403   Satellite Communications   E     7   Mobile and Cellular Communications   EC-403   Satellite Communications   E     7   Mobile and Cellular Communications   EC-403   Satellite Communications   E     7   Mobile and Cellular Communications   EC-403   Satellite Communications   E     8   Forestore   E   Computer System Architecture   E   E     8   Forestore   E   Computer Systems   E   E   E   E   E   E   E   E   E   E   E   E   E   E   E<!--</td--><td>50</td><td></td><td></td><td>Advanced Communications Lab</td><td>EC452</td><td>New Course</td><td>100</td></td></tr> <tr><td>22Project and Viva - VoceEC455Project Stage-IIE3hoject and Viva - VoceEC455Project Stage-IIE3Abata Communications &amp; NetworkingE4Data Communications &amp; NetworkingE5Optical CommunicationsEC-403Optical CommunicationsE6Satellite CommunicationsEC-407Cellular &amp; Mobile CommunicationsE7Mobile and Cellular CommunicationsEE8Project and Cellular CommunicationsEE9Project and Cellular CommunicationsEE1Project and Cellular CommunicationsEE2Mobile and Cellular CommunicationsEE2Mobile and Cellular CommunicationsEE3Project and Cellular CommunicationsEE4Project and Cellular CommunicationsEE4Project and Cellular CommunicationsEE5Mobile and Cellular CommunicationsEE6FCalular &amp; Mobile CommunicationsE7PComputer System ArchitectureE8FComputer SystemsE8FFSoc Architectures8F<td>51</td><td></td><td></td><td>Inductrial Training / Internship /<br/>Certification/Research Projects in National<br/>Iaboratories /<br/>Academic Intitutions</td><td>EC453</td><td>New Course</td><td>100</td></td></tr> <tr><td>3   information Theory &amp; Coding   E     4   bata Communications &amp; Networking   E     5   Optical Communications   EC-408   Optical Communications   E     6   Satellite Communications   EC-407   Cellular &amp; Mobile Communications   E     7   Mobile and Cellular Communications   E   EC-407   Cellular &amp; Mobile Communications   E     8   Satellite Communications   E   EC-407   Cellular &amp; Mobile Communications   E     7   Mobile and Cellular Communications   E   E   Mobile Communications   E     8   Mobile and Cellular Communications   E   E   Mobile Communications   E     8   Mobile and Cellular Communications   E   E   Mobile Communications   E     9   Mobile and Cellular Communications   E   E   Mobile Communications   E     9   Mobile and Cellular Communications   E   E   Mobile Communications   E     9   Mobile and Cellular Communications   E   E   E   E   E     9   E   C400B   Real Time Operating Systems</td><td>52</td><td>Project and Viva - Voce</td><td>EC455</td><td>Project Stage-II</td><td>EC461</td><td>No change</td><td>0</td></tr> <tr><td>4Data Communications &amp; NetworkingE5Optical CommunicationsEC-408Optical CommunicationsE6Satellite CommunicationsEC-409ASatellite CommunicationsE7Mobile and Cellular CommunicationsEC-407Cellular &amp; Mobile CommunicationsE8Mobile and Cellular CommunicationsEEE7Mobile and Cellular CommunicationsEE8Mobile and Cellular CommunicationsEE9Mobile and Cellular CommunicationsEE1Camputer System ArchitectureE1Real Time Operating SystemsE1Embedded SystemsE1SoC Architectures</td><td>53</td><td></td><td></td><td>Information Theory &amp; Coding</td><td>ECEL01</td><td>New Course</td><td>100</td></tr> <tr><td>5   Optical Communications   EC-408   Optical Communications   E     6   Satellite Communications   EC-409A   Satellite Communications   E     7   Mobile and Cellular Communications   EC-407   Cellular &amp; Mobile Communications   E     8   Mobile and Cellular Communications   EC-407   Cellular &amp; Mobile Communications   E     9   Mobile and Cellular Communications   EC-407   Real Time Operations   E     8   Real Time Operating System   EC-410B   Real Time Operating Systems   E     9   Embedded Systems   EC-409B   Enbedded Systems   E</td><td>54</td><td></td><td></td><td>Data Communications &amp; Networking</td><td>ECEL02</td><td>New Course</td><td>100</td></tr> <tr><td>6   Satellite Communications   EC-409A   Satellite Communications   E     7   Mobile and Cellular Communications   EC-407   Cellular &amp; Mobile Communications   E     8   Mobile and Cellular Communications   EC-407   Cellular &amp; Mobile Communications   E     8   Mobile and Cellular Communications   EC-410B   Real Time Operating Systems   E     8   Real Time Operating Systems   EC-410B   Real Time Operating Systems   E     9   Embedded Systems   EC-410B   SoC Architectures   E</td><td>55</td><td>Optical Communications</td><td>EC-408</td><td>Optical Communications</td><td>ECEL03</td><td>No change</td><td>0</td></tr> <tr><td>7     Mobile and Cellular Communications     EC-407     Cellular &amp; Mobile Communications     I       8     Mobile and Cellular Communications     Nireless Communications     I       8     Mobile and Cellular System     Mobile communications     I       8     Computer System Architecture     I       8     Real Time Operating Systems     EC-410B     Real Time Operating Systems       9     Embedded Systems     EC-409B     Embedded Systems     I</td><td>56</td><td>Satellite Communications</td><td>EC-409A</td><td>Satellite Communications</td><td>ECEL04</td><td>No change</td><td>0</td></tr> <tr><td>s Wireless Communications   A Wireless Communications   A Computer System Architecture   Real Time Operating System EC-410B   Embedded Systems EC-409B   Embedded Systems EC-409B   SoC Architectures</td><td>57</td><td>Mobile and Cellular Communications</td><td>EC-407</td><td>Cellular &amp; Mobile Communications</td><td>ECEL05</td><td>_</td><td>0</td></tr> <tr><td>Real Time Operating System Computer System Architecture   Real Time Operating Systems EC-410B Real Time Operating Systems   Embedded Systems EC-409B Embedded Systems   SoC Architectures SoC Architectures</td><td>58</td><td></td><td></td><td>Wireless Communications</td><td>ECEL06</td><td>-</td><td>100</td></tr> <tr><td>Real Time Operating Systems     EC-410B     Real Time Operating Systems       Embedded Systems     EC-409B     Embedded Systems       SoC Architectures     SoC Architectures</td><td>59</td><td></td><td></td><td>Computer System Architecture</td><td>ECEL07</td><td>New Course</td><td>100</td></tr> <tr><td>Embedded Systems     EC-409B     Embedded Systems       SoC Architectures     SoC Architectures</td><td>60</td><td>Real Time Operating System</td><td>EC-410B</td><td>Real Time Operating Systems</td><td>ECEL08</td><td>No change</td><td>0</td></tr> <tr><td>SoC Architectures</td><td>61</td><td>Embedded Systems</td><td>EC-409B</td><td>Embedded Systems</td><td>ECEL09</td><td>No change</td><td>0</td></tr> <tr><td></td><td>62</td><td></td><td></td><td>SoC Architectures</td><td>ECEL10</td><td>New Course</td><td>100</td></tr> | 48                    | Microwave Engineering                  | EC-401                | Microwave Engineering   | EC412           | No change                           | 0  | 60     Advanced Communications Lab     E       61     Inductrial Training / Internship / Intern | 49 | Mini Project/Term paper | EC451 | Project Stage-I | EC451 | No change | 0 | 1   Inductrial Training / Internship / Internship / Internship / Internship / Internship / Certification/Research Projects in National I aboratories / Academic Intitutions     2   Project and Viva - Voce   EC455   Project Stage-II   E     3   Project and Viva - Voce   EC455   Project Stage-II   E     4   Data Communications & Networking   E     5   Optical Communications & Networking   E     6   Satellite Communications   EC-408   Optical Communications   E     7   Mobile and Cellular Communications   EC-403   Satellite Communications   E     7   Mobile and Cellular Communications   EC-403   Satellite Communications   E     7   Mobile and Cellular Communications   EC-403   Satellite Communications   E     7   Mobile and Cellular Communications   EC-403   Satellite Communications   E     8   Forestore   E   Computer System Architecture   E   E     8   Forestore   E   Computer Systems   E   E   E   E   E   E   E   E   E   E   E   E   E   E   E </td <td>50</td> <td></td> <td></td> <td>Advanced Communications Lab</td> <td>EC452</td> <td>New Course</td> <td>100</td> | 50 |  |  | Advanced Communications Lab | EC452 | New Course | 100 | 22Project and Viva - VoceEC455Project Stage-IIE3hoject and Viva - VoceEC455Project Stage-IIE3Abata Communications & NetworkingE4Data Communications & NetworkingE5Optical CommunicationsEC-403Optical CommunicationsE6Satellite CommunicationsEC-407Cellular & Mobile CommunicationsE7Mobile and Cellular CommunicationsEE8Project and Cellular CommunicationsEE9Project and Cellular CommunicationsEE1Project and Cellular CommunicationsEE2Mobile and Cellular CommunicationsEE2Mobile and Cellular CommunicationsEE3Project and Cellular CommunicationsEE4Project and Cellular CommunicationsEE4Project and Cellular CommunicationsEE5Mobile and Cellular CommunicationsEE6FCalular & Mobile CommunicationsE7PComputer System ArchitectureE8FComputer SystemsE8FFSoc Architectures8F <td>51</td> <td></td> <td></td> <td>Inductrial Training / Internship /<br/>Certification/Research Projects in National<br/>Iaboratories /<br/>Academic Intitutions</td> <td>EC453</td> <td>New Course</td> <td>100</td> | 51 |  |  | Inductrial Training / Internship /<br>Certification/Research Projects in National<br>Iaboratories /<br>Academic Intitutions | EC453 | New Course | 100 | 3   information Theory & Coding   E     4   bata Communications & Networking   E     5   Optical Communications   EC-408   Optical Communications   E     6   Satellite Communications   EC-407   Cellular & Mobile Communications   E     7   Mobile and Cellular Communications   E   EC-407   Cellular & Mobile Communications   E     8   Satellite Communications   E   EC-407   Cellular & Mobile Communications   E     7   Mobile and Cellular Communications   E   E   Mobile Communications   E     8   Mobile and Cellular Communications   E   E   Mobile Communications   E     8   Mobile and Cellular Communications   E   E   Mobile Communications   E     9   Mobile and Cellular Communications   E   E   Mobile Communications   E     9   Mobile and Cellular Communications   E   E   Mobile Communications   E     9   Mobile and Cellular Communications   E   E   E   E   E     9   E   C400B   Real Time Operating Systems | 52 | Project and Viva - Voce | EC455 | Project Stage-II | EC461 | No change | 0 | 4Data Communications & NetworkingE5Optical CommunicationsEC-408Optical CommunicationsE6Satellite CommunicationsEC-409ASatellite CommunicationsE7Mobile and Cellular CommunicationsEC-407Cellular & Mobile CommunicationsE8Mobile and Cellular CommunicationsEEE7Mobile and Cellular CommunicationsEE8Mobile and Cellular CommunicationsEE9Mobile and Cellular CommunicationsEE1Camputer System ArchitectureE1Real Time Operating SystemsE1Embedded SystemsE1SoC Architectures | 53 |  |  | Information Theory & Coding | ECEL01 | New Course | 100 | 5   Optical Communications   EC-408   Optical Communications   E     6   Satellite Communications   EC-409A   Satellite Communications   E     7   Mobile and Cellular Communications   EC-407   Cellular & Mobile Communications   E     8   Mobile and Cellular Communications   EC-407   Cellular & Mobile Communications   E     9   Mobile and Cellular Communications   EC-407   Real Time Operations   E     8   Real Time Operating System   EC-410B   Real Time Operating Systems   E     9   Embedded Systems   EC-409B   Enbedded Systems   E | 54 |  |  | Data Communications & Networking | ECEL02 | New Course | 100 | 6   Satellite Communications   EC-409A   Satellite Communications   E     7   Mobile and Cellular Communications   EC-407   Cellular & Mobile Communications   E     8   Mobile and Cellular Communications   EC-407   Cellular & Mobile Communications   E     8   Mobile and Cellular Communications   EC-410B   Real Time Operating Systems   E     8   Real Time Operating Systems   EC-410B   Real Time Operating Systems   E     9   Embedded Systems   EC-410B   SoC Architectures   E | 55 | Optical Communications | EC-408 | Optical Communications | ECEL03 | No change | 0 | 7     Mobile and Cellular Communications     EC-407     Cellular & Mobile Communications     I       8     Mobile and Cellular Communications     Nireless Communications     I       8     Mobile and Cellular System     Mobile communications     I       8     Computer System Architecture     I       8     Real Time Operating Systems     EC-410B     Real Time Operating Systems       9     Embedded Systems     EC-409B     Embedded Systems     I | 56 | Satellite Communications | EC-409A | Satellite Communications | ECEL04 | No change | 0 | s Wireless Communications   A Wireless Communications   A Computer System Architecture   Real Time Operating System EC-410B   Embedded Systems EC-409B   Embedded Systems EC-409B   SoC Architectures | 57 | Mobile and Cellular Communications | EC-407 | Cellular & Mobile Communications | ECEL05 | _ | 0 | Real Time Operating System Computer System Architecture   Real Time Operating Systems EC-410B Real Time Operating Systems   Embedded Systems EC-409B Embedded Systems   SoC Architectures SoC Architectures | 58 |  |  | Wireless Communications | ECEL06 | - | 100 | Real Time Operating Systems     EC-410B     Real Time Operating Systems       Embedded Systems     EC-409B     Embedded Systems       SoC Architectures     SoC Architectures | 59 |  |  | Computer System Architecture | ECEL07 | New Course | 100 | Embedded Systems     EC-409B     Embedded Systems       SoC Architectures     SoC Architectures | 60 | Real Time Operating System | EC-410B | Real Time Operating Systems | ECEL08 | No change | 0 | SoC Architectures | 61 | Embedded Systems | EC-409B | Embedded Systems | ECEL09 | No change | 0 |  | 62 |  |  | SoC Architectures | ECEL10 | New Course | 100 |
| 48  | Microwave Engineering | EC-401                                 | Microwave Engineering | EC412   | No change       | 0                                   |  |  |    |                         |       |                 |       |           |   |   |    |  |  |                             |       |            |     |   |    |  |  |   |       |            |     |  |    |                         |       |                  |       |           |   |   |    |  |  |                             |        |            |     |  |    |  |  |                                  |        |            |     |   |    |                        |        |                        |        |           |   |   |    |                          |         |                          |        |           |   |   |    |                                    |        |                                  |        |   |   |   |    |  |  |                         |        |   |     |   |    |  |  |                              |        |            |     |   |    |                            |         |                             |        |           |   |                   |    |                  |         |                  |        |           |   |  |    |  |  |                   |        |            |     |
| 60     Advanced Communications Lab     E       61     Inductrial Training / Internship / Intern  | 49                    | Mini Project/Term paper                | EC451                 | Project Stage-I   | EC451           | No change                           | 0  |  |    |                         |       |                 |       |           |   |   |    |  |  |                             |       |            |     |   |    |  |  |   |       |            |     |  |    |                         |       |                  |       |           |   |   |    |  |  |                             |        |            |     |  |    |  |  |                                  |        |            |     |   |    |                        |        |                        |        |           |   |   |    |                          |         |                          |        |           |   |   |    |                                    |        |                                  |        |   |   |   |    |  |  |                         |        |   |     |   |    |  |  |                              |        |            |     |   |    |                            |         |                             |        |           |   |                   |    |                  |         |                  |        |           |   |  |    |  |  |                   |        |            |     |
| 1   Inductrial Training / Internship / Internship / Internship / Internship / Internship / Certification/Research Projects in National I aboratories / Academic Intitutions     2   Project and Viva - Voce   EC455   Project Stage-II   E     3   Project and Viva - Voce   EC455   Project Stage-II   E     4   Data Communications & Networking   E     5   Optical Communications & Networking   E     6   Satellite Communications   EC-408   Optical Communications   E     7   Mobile and Cellular Communications   EC-403   Satellite Communications   E     7   Mobile and Cellular Communications   EC-403   Satellite Communications   E     7   Mobile and Cellular Communications   EC-403   Satellite Communications   E     7   Mobile and Cellular Communications   EC-403   Satellite Communications   E     8   Forestore   E   Computer System Architecture   E   E     8   Forestore   E   Computer Systems   E   E   E   E   E   E   E   E   E   E   E   E   E   E   E </td <td>50</td> <td></td> <td></td> <td>Advanced Communications Lab</td> <td>EC452</td> <td>New Course</td> <td>100</td>   | 50                    |  |                       | Advanced Communications Lab   | EC452           | New Course                          | 100  |  |    |                         |       |                 |       |           |   |   |    |  |  |                             |       |            |     |   |    |  |  |   |       |            |     |  |    |                         |       |                  |       |           |   |   |    |  |  |                             |        |            |     |  |    |  |  |                                  |        |            |     |   |    |                        |        |                        |        |           |   |   |    |                          |         |                          |        |           |   |   |    |                                    |        |                                  |        |   |   |   |    |  |  |                         |        |   |     |   |    |  |  |                              |        |            |     |   |    |                            |         |                             |        |           |   |                   |    |                  |         |                  |        |           |   |  |    |  |  |                   |        |            |     |
| 22Project and Viva - VoceEC455Project Stage-IIE3hoject and Viva - VoceEC455Project Stage-IIE3Abata Communications & NetworkingE4Data Communications & NetworkingE5Optical CommunicationsEC-403Optical CommunicationsE6Satellite CommunicationsEC-407Cellular & Mobile CommunicationsE7Mobile and Cellular CommunicationsEE8Project and Cellular CommunicationsEE9Project and Cellular CommunicationsEE1Project and Cellular CommunicationsEE2Mobile and Cellular CommunicationsEE2Mobile and Cellular CommunicationsEE3Project and Cellular CommunicationsEE4Project and Cellular CommunicationsEE4Project and Cellular CommunicationsEE5Mobile and Cellular CommunicationsEE6FCalular & Mobile CommunicationsE7PComputer System ArchitectureE8FComputer SystemsE8FFSoc Architectures8F <td>51</td> <td></td> <td></td> <td>Inductrial Training / Internship /<br/>Certification/Research Projects in National<br/>Iaboratories /<br/>Academic Intitutions</td> <td>EC453</td> <td>New Course</td> <td>100</td>   | 51                    |  |                       | Inductrial Training / Internship /<br>Certification/Research Projects in National<br>Iaboratories /<br>Academic Intitutions | EC453           | New Course                          | 100  |  |    |                         |       |                 |       |           |   |   |    |  |  |                             |       |            |     |   |    |  |  |   |       |            |     |  |    |                         |       |                  |       |           |   |   |    |  |  |                             |        |            |     |  |    |  |  |                                  |        |            |     |   |    |                        |        |                        |        |           |   |   |    |                          |         |                          |        |           |   |   |    |                                    |        |                                  |        |   |   |   |    |  |  |                         |        |   |     |   |    |  |  |                              |        |            |     |   |    |                            |         |                             |        |           |   |                   |    |                  |         |                  |        |           |   |  |    |  |  |                   |        |            |     |
| 3   information Theory & Coding   E     4   bata Communications & Networking   E     5   Optical Communications   EC-408   Optical Communications   E     6   Satellite Communications   EC-407   Cellular & Mobile Communications   E     7   Mobile and Cellular Communications   E   EC-407   Cellular & Mobile Communications   E     8   Satellite Communications   E   EC-407   Cellular & Mobile Communications   E     7   Mobile and Cellular Communications   E   E   Mobile Communications   E     8   Mobile and Cellular Communications   E   E   Mobile Communications   E     8   Mobile and Cellular Communications   E   E   Mobile Communications   E     9   Mobile and Cellular Communications   E   E   Mobile Communications   E     9   Mobile and Cellular Communications   E   E   Mobile Communications   E     9   Mobile and Cellular Communications   E   E   E   E   E     9   E   C400B   Real Time Operating Systems  | 52                    | Project and Viva - Voce                | EC455                 | Project Stage-II  | EC461           | No change                           | 0  |  |    |                         |       |                 |       |           |   |   |    |  |  |                             |       |            |     |   |    |  |  |   |       |            |     |  |    |                         |       |                  |       |           |   |   |    |  |  |                             |        |            |     |  |    |  |  |                                  |        |            |     |   |    |                        |        |                        |        |           |   |   |    |                          |         |                          |        |           |   |   |    |                                    |        |                                  |        |   |   |   |    |  |  |                         |        |   |     |   |    |  |  |                              |        |            |     |   |    |                            |         |                             |        |           |   |                   |    |                  |         |                  |        |           |   |  |    |  |  |                   |        |            |     |
| 4Data Communications & NetworkingE5Optical CommunicationsEC-408Optical CommunicationsE6Satellite CommunicationsEC-409ASatellite CommunicationsE7Mobile and Cellular CommunicationsEC-407Cellular & Mobile CommunicationsE8Mobile and Cellular CommunicationsEEE7Mobile and Cellular CommunicationsEE8Mobile and Cellular CommunicationsEE9Mobile and Cellular CommunicationsEE1Camputer System ArchitectureE1Real Time Operating SystemsE1Embedded SystemsE1SoC Architectures   | 53                    |  |                       | Information Theory & Coding   | ECEL01          | New Course                          | 100  |  |    |                         |       |                 |       |           |   |   |    |  |  |                             |       |            |     |   |    |  |  |   |       |            |     |  |    |                         |       |                  |       |           |   |   |    |  |  |                             |        |            |     |  |    |  |  |                                  |        |            |     |   |    |                        |        |                        |        |           |   |   |    |                          |         |                          |        |           |   |   |    |                                    |        |                                  |        |   |   |   |    |  |  |                         |        |   |     |   |    |  |  |                              |        |            |     |   |    |                            |         |                             |        |           |   |                   |    |                  |         |                  |        |           |   |  |    |  |  |                   |        |            |     |
| 5   Optical Communications   EC-408   Optical Communications   E     6   Satellite Communications   EC-409A   Satellite Communications   E     7   Mobile and Cellular Communications   EC-407   Cellular & Mobile Communications   E     8   Mobile and Cellular Communications   EC-407   Cellular & Mobile Communications   E     9   Mobile and Cellular Communications   EC-407   Real Time Operations   E     8   Real Time Operating System   EC-410B   Real Time Operating Systems   E     9   Embedded Systems   EC-409B   Enbedded Systems   E  | 54                    |  |                       | Data Communications & Networking  | ECEL02          | New Course                          | 100  |  |    |                         |       |                 |       |           |   |   |    |  |  |                             |       |            |     |   |    |  |  |   |       |            |     |  |    |                         |       |                  |       |           |   |   |    |  |  |                             |        |            |     |  |    |  |  |                                  |        |            |     |   |    |                        |        |                        |        |           |   |   |    |                          |         |                          |        |           |   |   |    |                                    |        |                                  |        |   |   |   |    |  |  |                         |        |   |     |   |    |  |  |                              |        |            |     |   |    |                            |         |                             |        |           |   |                   |    |                  |         |                  |        |           |   |  |    |  |  |                   |        |            |     |
| 6   Satellite Communications   EC-409A   Satellite Communications   E     7   Mobile and Cellular Communications   EC-407   Cellular & Mobile Communications   E     8   Mobile and Cellular Communications   EC-407   Cellular & Mobile Communications   E     8   Mobile and Cellular Communications   EC-410B   Real Time Operating Systems   E     8   Real Time Operating Systems   EC-410B   Real Time Operating Systems   E     9   Embedded Systems   EC-410B   SoC Architectures   E   | 55                    | Optical Communications                 | EC-408                | Optical Communications  | ECEL03          | No change                           | 0  |  |    |                         |       |                 |       |           |   |   |    |  |  |                             |       |            |     |   |    |  |  |   |       |            |     |  |    |                         |       |                  |       |           |   |   |    |  |  |                             |        |            |     |  |    |  |  |                                  |        |            |     |   |    |                        |        |                        |        |           |   |   |    |                          |         |                          |        |           |   |   |    |                                    |        |                                  |        |   |   |   |    |  |  |                         |        |   |     |   |    |  |  |                              |        |            |     |   |    |                            |         |                             |        |           |   |                   |    |                  |         |                  |        |           |   |  |    |  |  |                   |        |            |     |
| 7     Mobile and Cellular Communications     EC-407     Cellular & Mobile Communications     I       8     Mobile and Cellular Communications     Nireless Communications     I       8     Mobile and Cellular System     Mobile communications     I       8     Computer System Architecture     I       8     Real Time Operating Systems     EC-410B     Real Time Operating Systems       9     Embedded Systems     EC-409B     Embedded Systems     I   | 56                    | Satellite Communications               | EC-409A               | Satellite Communications  | ECEL04          | No change                           | 0  |  |    |                         |       |                 |       |           |   |   |    |  |  |                             |       |            |     |   |    |  |  |   |       |            |     |  |    |                         |       |                  |       |           |   |   |    |  |  |                             |        |            |     |  |    |  |  |                                  |        |            |     |   |    |                        |        |                        |        |           |   |   |    |                          |         |                          |        |           |   |   |    |                                    |        |                                  |        |   |   |   |    |  |  |                         |        |   |     |   |    |  |  |                              |        |            |     |   |    |                            |         |                             |        |           |   |                   |    |                  |         |                  |        |           |   |  |    |  |  |                   |        |            |     |
| s Wireless Communications   A Wireless Communications   A Computer System Architecture   Real Time Operating System EC-410B   Embedded Systems EC-409B   Embedded Systems EC-409B   SoC Architectures   | 57                    | Mobile and Cellular Communications     | EC-407                | Cellular & Mobile Communications  | ECEL05          | _                                   | 0  |  |    |                         |       |                 |       |           |   |   |    |  |  |                             |       |            |     |   |    |  |  |   |       |            |     |  |    |                         |       |                  |       |           |   |   |    |  |  |                             |        |            |     |  |    |  |  |                                  |        |            |     |   |    |                        |        |                        |        |           |   |   |    |                          |         |                          |        |           |   |   |    |                                    |        |                                  |        |   |   |   |    |  |  |                         |        |   |     |   |    |  |  |                              |        |            |     |   |    |                            |         |                             |        |           |   |                   |    |                  |         |                  |        |           |   |  |    |  |  |                   |        |            |     |
| Real Time Operating System Computer System Architecture   Real Time Operating Systems EC-410B Real Time Operating Systems   Embedded Systems EC-409B Embedded Systems   SoC Architectures SoC Architectures   | 58                    |  |                       | Wireless Communications   | ECEL06          | -                                   | 100  |  |    |                         |       |                 |       |           |   |   |    |  |  |                             |       |            |     |   |    |  |  |   |       |            |     |  |    |                         |       |                  |       |           |   |   |    |  |  |                             |        |            |     |  |    |  |  |                                  |        |            |     |   |    |                        |        |                        |        |           |   |   |    |                          |         |                          |        |           |   |   |    |                                    |        |                                  |        |   |   |   |    |  |  |                         |        |   |     |   |    |  |  |                              |        |            |     |   |    |                            |         |                             |        |           |   |                   |    |                  |         |                  |        |           |   |  |    |  |  |                   |        |            |     |
| Real Time Operating Systems     EC-410B     Real Time Operating Systems       Embedded Systems     EC-409B     Embedded Systems       SoC Architectures     SoC Architectures   | 59                    |  |                       | Computer System Architecture  | ECEL07          | New Course                          | 100  |  |    |                         |       |                 |       |           |   |   |    |  |  |                             |       |            |     |   |    |  |  |   |       |            |     |  |    |                         |       |                  |       |           |   |   |    |  |  |                             |        |            |     |  |    |  |  |                                  |        |            |     |   |    |                        |        |                        |        |           |   |   |    |                          |         |                          |        |           |   |   |    |                                    |        |                                  |        |   |   |   |    |  |  |                         |        |   |     |   |    |  |  |                              |        |            |     |   |    |                            |         |                             |        |           |   |                   |    |                  |         |                  |        |           |   |  |    |  |  |                   |        |            |     |
| Embedded Systems     EC-409B     Embedded Systems       SoC Architectures     SoC Architectures   | 60                    | Real Time Operating System             | EC-410B               | Real Time Operating Systems   | ECEL08          | No change                           | 0  |  |    |                         |       |                 |       |           |   |   |    |  |  |                             |       |            |     |   |    |  |  |   |       |            |     |  |    |                         |       |                  |       |           |   |   |    |  |  |                             |        |            |     |  |    |  |  |                                  |        |            |     |   |    |                        |        |                        |        |           |   |   |    |                          |         |                          |        |           |   |   |    |                                    |        |                                  |        |   |   |   |    |  |  |                         |        |   |     |   |    |  |  |                              |        |            |     |   |    |                            |         |                             |        |           |   |                   |    |                  |         |                  |        |           |   |  |    |  |  |                   |        |            |     |
| SoC Architectures   | 61                    | Embedded Systems                       | EC-409B               | Embedded Systems  | ECEL09          | No change                           | 0  |  |    |                         |       |                 |       |           |   |   |    |  |  |                             |       |            |     |   |    |  |  |   |       |            |     |  |    |                         |       |                  |       |           |   |   |    |  |  |                             |        |            |     |  |    |  |  |                                  |        |            |     |   |    |                        |        |                        |        |           |   |   |    |                          |         |                          |        |           |   |   |    |                                    |        |                                  |        |   |   |   |    |  |  |                         |        |   |     |   |    |  |  |                              |        |            |     |   |    |                            |         |                             |        |           |   |                   |    |                  |         |                  |        |           |   |  |    |  |  |                   |        |            |     |
|   | 62                    |  |                       | SoC Architectures   | ECEL10          | New Course                          | 100  |  |    |                         |       |                 |       |           |   |   |    |  |  |                             |       |            |     |   |    |  |  |   |       |            |     |  |    |                         |       |                  |       |           |   |   |    |  |  |                             |        |            |     |  |    |  |  |                                  |        |            |     |   |    |                        |        |                        |        |           |   |   |    |                          |         |                          |        |           |   |   |    |                                    |        |                                  |        |   |   |   |    |  |  |                         |        |   |     |   |    |  |  |                              |        |            |     |   |    |                            |         |                             |        |           |   |                   |    |                  |         |                  |        |           |   |  |    |  |  |                   |        |            |     |

| syllabus content<br>added or replaced | 100                   | 100           | 100        | 100        | 100                   | 100                        | 100                       | 100                                       | 0                        | 100        | 0                 | 100   | 100        | 0                         | 100             | 0                | 40   | 100                     | 100   | 100                                   | 100                      | 100                       | 100                        | 100                         | 0                                   | 100                    | 100                    | 0                  | 0                       | 100               | 100                            | 100                   | 100                                    | 100                                | 100                |
|---------------------------------------|-----------------------|---------------|------------|------------|-----------------------|----------------------------|---------------------------|---|--------------------------|------------|-------------------|---|------------|---------------------------|-----------------|------------------|--|-------------------------|---|---------------------------------------|--------------------------|---------------------------|----------------------------|-----------------------------|-------------------------------------|------------------------|------------------------|--------------------|-------------------------|-------------------|--------------------------------|-----------------------|--|------------------------------------|--------------------|
| Remarks                               | New Course            | New Course    | New Course | New Course | New Course            | New Course                 | New Course                | New Course                                | No change                | New Course | No change         | New Course                                      | New Course | No change                 | New Course      | No change        | 1.5 Units are changed                        | New Course              | New Course                                  | New Course                            | New Course               | New Course                | New Course                 | New Course                  | No change                           | New Course             | New Course             | No change          | No change               | New Course        | New Course                     | New Course            | New Course                             | New Course                         | CSOL04 New Course  |
| Subject<br>Name                       | ECEL11                | ECEL12        | ECEL13     |            | ECEL15                | ECEL16                     | ECEL17                    | ECEL18                                    | ECEL19                   |            | ECEL21            | ECEL22  | ECEL23     | ECEL24                    | ECEL25          | ECEL26           | ECEL27                                       | ECEL28                  | EC V01                                      | EC V02                                | EC V03                   | EC V04                    | EC V05                     | EC V06                      |                                     | 1000                   | CEOL03                 | CHOL01             | CHOL02                  | СНОГОЗ            | CHOL04                         | CSOL01                | CSOL02                                 | CSOL03                             | CSOL04             |
| Subject Code                          | Digital System Design | al Processing |            |            | Low Power VLSI Design | VLSI Testing & Testability | Soft Computing Techniques | Digital Signal Processors & Architectures | Image Processing         | no         | Speech Processing | Electromagnetic Interference &<br>Compatibility | MEMS       | Radar & Navigational Aids | Cognitive Radio | RF System Design | Electronic Measurements &<br>Instrumentation | Wireless Sensor Netorks | English Competency Development<br>Programme | AI Tools, Techniques and Applications | Internet of Things (IoT) | Graphical System Design-I | Graphical System Design-II | Graphical System Design-III | Building Materials and Construction | Solid waste Management | Remote Sensing and GIS | Energy Engineering | Biofuels                | Pollution Control | Nanoscience and Nanotechnology | Programming with Java | Relational Database Management Systems | Introduction to Python Programming | Internet of Things |
| Subject<br>Code                       |                       |               |            |            |                       |                            |                           |   | EC-406A                  |            | EC-410C           |   |            | EC-410D                   |                 | EC-409D          | EC-212                                       |                         |   |                                       |                          |                           |                            |                             |                                     |                        |                        |                    | No. of Street, or other |                   |                                |                       |  |                                    |                    |
| Subject Name                          |                       |               |            |            |                       |                            |                           |   | Digital Image Processing | 0          | Speech Processing |   |            | Radar & Navigational Aids |                 | RF System Design | Electrical Engineering & Measurements        |                         |   |                                       |                          |                           |                            |                             |                                     |                        |                        |                    |                         |                   |                                |                       |  |                                    |                    |
| S.No                                  | 63                    | 50            | EC 10      | 55         | 67                    | 68                         | 69                        | 70  | 71                       |            |                   |   | 75         | 76                        |                 |                  |  | 80                      | 81  | 82                                    | 83                       | 84                        | 85                         | 86                          | 87                                  | 88                     | 89                     | 90                 | 91                      | 92                | 93                             | 94                    | 95                                     | 96                                 | 97                 |

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|--|--------------------------|----------------------------------|------------------|---------------------|--|------------------------------|-------------------|--------------------|------------------|------------------------|---------------------|-------------------------------------|-------------------|---|---|-------------------------|---------------------------------------|---------------------------------------|---|-----------------------|------------------------------|
| Remarks  | New Course               | No change                        | New Course       | EEOL04 New Course   | EEOLOS New Course  | New Course                   | New Course        | New Course         | No change        | MEOL01 New Course      | MEOL02 New Course   | MEOL03 New Course                   | MEOL04 New Course | MEOLOS New Course                             | No change                                       | No change               | New Course                            | New Course                            | New Course                                    | HSEL06 New Course     | Percentage change in content |
| Subject<br>Name  | EEOL01                   | EEOL02                           | EEOL03           | EEOL04              | EEOLOS   | ITOL01                       | ITOL02            | ITOL03             | ITOL04           | MEOL01                 | MEOL02              | MEOL03                              | MEOL04            | MEOLOS  | HSEL01  | HSEL02                  | HSELO3                                | HSEL04                                | HSELOS  | HSEL06                | Perce                        |
| Subject Code   | Renewable energy sources | Utilization of Electrical Energy | Power Converters | Energy Conservation | Introduction to Electric Vehicles and<br>Storage Systems | Data Structures & Algorithms | Operating Systems | Big Data Analytics | Web Technologies | Automotive Engineering | Robotic Engineering | Introduction to Operations Research | Mechatronics      | Applied Mechanics & Mechanical<br>Engineering | Industrial Management &<br>Entrepreneurship     | Economics for Engineers | Introduction to Industrial Management | Project Management & Entrepreneurship | Human Resources & Organisational<br>Behaviour | Ethics & Human Values |                              |
| Subject<br>Code  |                          |                                  |                  |                     |  |                              |                   |                    | IT-404B          |                        |                     |                                     |                   |   | EC-405  | EC-106                  |                                       |                                       |   |                       |                              |
| Subject Name   |                          |                                  |                  |                     |  |                              |                   |                    | Web Technologies |                        |                     |                                     |                   |   | Industrial Management & Entrepreneurship EC-405 | Economics for Engineers |                                       |                                       |   |                       |                              |
| S.No   | 98                       | 66                               | 100              | 101                 | 102  | 103                          | 104               | 105                | 106              | 107                    | 108                 | 109                                 | 110               | 111   | 112   | 113                     | 114                                   | 115                                   | 116   | 117                   |                              |

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