

**SUSTAINABILITY COURSES/SUBJECTS OFFERED****FACULTY OF ELECTRONICS AND COMPUTER TECHNOLOGY AND ENGINEERING (FTKEK)**

| No. | Course Code | Course Name                              | Programme                               | SDG  |
|-----|-------------|------------------------------------------|-----------------------------------------|------|
| 1   | DENH 1142   | ALGEBRA                                  | Diploma in Electronic Engineering (DEN) | 4    |
| 2   | DENH 1303   | PHYSIC FUNDAMENTALS                      | Diploma in Electronic Engineering (DEN) | 4    |
| 3   | DENT 1213   | ELECTRICAL PRINCIPLES                    | Diploma in Electronic Engineering (DEN) | 7    |
| 4   | DENC 1223   | COMPUTER PROGRAMMING                     | Diploma in Electronic Engineering (DEN) | 7,9  |
| 5   | DMCG 1523   | ENGINEERING DRAWING                      | Diploma in Electronic Engineering (DEN) | 9    |
| 6   | DENE 1311   | ELECTRONIC WORKSHOP & DOMESTIC WIRING    | Diploma in Electronic Engineering (DEN) | 9    |
| 7   | DENE 1112   | SAFETY AND HEALTH IN ENGINEERING         | Diploma in Electronic Engineering (DEN) | 9,11 |
| 8   | DENH 1152   | CALCULUS                                 | Diploma in Electronic Engineering (DEN) | 4    |
| 9   | DENE 1323   | ELECTRONIC PRINCIPLES                    | Diploma in Electronic Engineering (DEN) | 4    |
| 10  | DENT 1233   | ELECTRICAL CIRCUITS                      | Diploma in Electronic Engineering (DEN) | 9    |
| 11  | DENC 1433   | LOGIC CIRCUITS                           | Diploma in Electronic Engineering (DEN) | 9    |
| 12  | DENC 1532   | ELECTRONIC COMPUTER AIDED DESIGN (ECADD) | Diploma in Electronic Engineering (DEN) | 9    |
| 13  | DENE 1421   | PCB DESIGN & FABRICATION WORKSHOP        | Diploma in Electronic Engineering (DEN) | 9    |

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|-----|-------------|------------------------------------------------|--------------------------------------------------------|-----|
| 14  | DTMW 1012   | FUNDAMENTALS OF ENTREPRENEURSHIP ENCULTURATION | Diploma in Electronic Engineering (DEN)                | 8   |
| 15  | DENH 2163   | ENGINEERING MATHEMATICS                        | Diploma in Electronic Engineering (DEN)                | 4   |
| 16  | BENT 3753   | COMMUNICATION PRINCIPLES                       | Bachelor of Electronic Engineering with Honours (BERG) | 4   |
| 17  | BENC 3443   | MULTIMEDIA TECHNOLOGY AND APPLICATION          | Bachelor of Electronic Engineering with Honours (BERG) | 8   |
| 18  | BENE 3143   | ELECTRONIC SYSTEM DESIGN AND ANALYSIS          | Bachelor of Electronic Engineering with Honours (BERG) | 9   |
| 19  | BENT 3743   | ELECTROMAGNETIC FIELDS AND WAVES               | Bachelor of Electronic Engineering with Honours (BERG) | 9   |
| 20  | BENU 3863   | INTEGRATED DESIGN PROJECT                      | Bachelor of Electronic Engineering with Honours (BERG) | 9   |
| 21  | BENT 4733   | DIGITAL SIGNAL PROCESSING                      | Bachelor of Electronic Engineering with Honours (BERG) | 9   |
| 22  | BENE 3223   | CONTROL PRINCIPLES AND SYSTEMS                 | Bachelor of Electronic Engineering with Honours (BERG) | 9   |
| 23  | BENU 4972   | BACHELOR'S DEGREE PROJECT I                    | Bachelor of Electronic Engineering with Honours (BERG) | 4   |
| 24  | BENU 4131   | ENGINEERING SEMINAR                            | Bachelor of Electronic Engineering with Honours (BERG) | 4   |

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|-----|-------------|-----------------------------------------|--------------------------------------------------------|-----|
| 25  | BENE 3462   | ARTIFICIAL INTELLIGENCE                 | Bachelor of Electronic Engineering with Honours (BERG) | 9   |
| 26  | BENC 4463   | MICROCONTROLLER TECHNOLOGY              | ELECTIVE<br>COMPUTER ENGINEERING (BERR)                | 9   |
| 27  | BENC 4473   | DIGITAL INTEGRATED CIRCUIT DESIGN       | ELECTIVE<br>COMPUTER ENGINEERING (BERR)                | 9   |
| 28  | BENC 4483   | COMPUTER VISION AND PATTERN RECOGNITION | ELECTIVE<br>COMPUTER ENGINEERING (BERR)                | 9   |
| 29  | BENC 4513   | EMBEDDED SOFTWARE DESIGN                | ELECTIVE<br>COMPUTER ENGINEERING (BERR)                | 9   |
| 30  | BENE 4233   | INDUSTRIAL CONTROL                      | INDUSTRIAL ELECTRONICS (BERE)                          | 9   |
| 31  | BENE 4243   | INDUSTRIAL AUTOMATION                   | INDUSTRIAL ELECTRONICS (BERE)                          | 9   |
| 32  | BENE 4253   | IC DESIGN AND PROCESS                   | INDUSTRIAL ELECTRONICS (BERE)                          | 9   |
| 33  | BENE 4343   | POWER ELECTRONICS AND DRIVES            | INDUSTRIAL ELECTRONICS (BERE)                          | 9   |
| 34  | BENT 4783   | WIRELESS COMMUNICATION SYSTEM           | WIRELESS COMMUNICATION (BERC)                          | 9   |
| 35  | BENT 4813   | DATA COMMUNICATION AND NETWORKING       | WIRELESS COMMUNICATION (BERC)                          | 9   |
| 36  | BENT 4833   | ANTENNA AND WAVE PROPAGATION            | WIRELESS COMMUNICATION (BERC)                          | 9   |

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|-----|-------------|-----------------------------------------|-------------------------------------------------------------------------|-----|
| 37  | BENT 4853   | RADIO NAVIGATION SYSTEM                 | WIRELESS COMMUNICATION (BERC)                                           | 9   |
| 38  | BENG 4753   | SPECIAL TOPIC IN ELECTRONIC ENGINEERING | WIRELESS COMMUNICATION (BERC)                                           | 9   |
| 39  | BEKP 4853   | RENEWABLE ENERGY                        | WIRELESS COMMUNICATION (BERC)                                           | 7   |
| 40  | BEEC 1303   | BASIC ELECTRONICS                       | Bachelor of Electrical Engineering Technology (Computer Systems) (BERC) | 4   |
| 41  | BEEC 1323   | COMPUTER ENGINEERING WORKSHOP I         | Bachelor of Electrical Engineering Technology (Computer Systems) (BERC) | 4   |
| 42  | BEEC 1333   | COMPUTER ENGINEERING WORKSHOP II        | Bachelor of Electrical Engineering Technology (Computer Systems) (BERC) | 4   |
| 43  | BEEC 2373   | COMPUTER ORGANIZATION & ARCHITECTURE    | Bachelor of Electrical Engineering Technology (Computer Systems) (BERC) | 4   |
| 44  | BEEC 2363   | DATA STRUCTURE & ALGORITHM              | Bachelor of Electrical Engineering Technology (Computer Systems) (BERC) | 4   |
| 45  | BEET 2423   | SIGNAL & SYSTEMS                        | Bachelor of Electrical Engineering Technology (Computer Systems) (BERC) | 4   |
| 46  | BEEC 1343   | DATABASE MANAGEMENT SYSTEM              | Bachelor of Electrical Engineering Technology (Computer Systems) (BERC) | 4   |
| 47  | BEEC 2383   | COMPUTER NETWORK & SYSTEM               | Bachelor of Electrical Engineering Technology (Computer Systems) (BERC) | 4   |

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|-----|-------------|----------------------------------|-------------------------------------------------------------------------|-----|
| 48  | BEEC 2393   | INTERNET TECHNOLOGY & MULTIMEDIA | Bachelor of Electrical Engineering Technology (Computer Systems) (BERC) | 4   |
| 49  | BEEC 3453   | OPERATING SYSTEMS                | Bachelor of Electrical Engineering Technology (Computer Systems) (BERC) | 4   |
| 50  | BEEC 3413   | DISCRETE MATHEMATICS             | Bachelor of Electrical Engineering Technology (Computer Systems) (BERC) | 4   |
| 51  | BEEC 3433   | COMPUTER NETWORK & SECURITY      | Bachelor of Electrical Engineering Technology (Computer Systems) (BERC) | 4   |
| 52  | BEEC 3463   | SOFTWARE ENGINEERING             | Bachelor of Electrical Engineering Technology (Computer Systems) (BERC) | 4   |
| 53  | BEEC 3423   | COMPUTER SYSTEM ENGINEERING      | Bachelor of Electrical Engineering Technology (Computer Systems) (BERC) | 4   |
| 54  | BEEC 4473   | EMBEDDED SYSTEM                  | Bachelor of Electrical Engineering Technology (Computer Systems) (BERC) | 4   |
| 55  | BEEC 4804   | VLSI DESIGN & FABRICATION        | Bachelor of Electrical Engineering Technology (Computer Systems) (BERC) | 4   |
| 56  | BEEC 4824   | IMAGE & VIDEO PROCESSING         | Bachelor of Electrical Engineering Technology (Computer Systems) (BERC) | 4   |
| 57  | BEEC 4834   | REAL TIME SYSTEMS                | Bachelor of Electrical Engineering Technology (Computer Systems) (BERC) | 4   |
| 58  | BEEZ 1203   | AC CIRCUIT ANALYSIS              | Bachelor of Electronics Engineering Technology (BERZ)                   | 4   |

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|-----|-------------|--------------------------------------------|-------------------------------------------------------|-----|
| 59  | BEEZ 1213   | INSTRUMENTATION & MEASUREMENT              | Bachelor of Electronics Engineering Technology (BERZ) | 4   |
| 60  | BEEZ 2404   | MICROCONTROLLER TECHNOLOGY                 | Bachelor of Electronics Engineering Technology (BERZ) | 4   |
| 61  | BEEZ 3413   | RF TECHNIQUE & MICROWAVE                   | Bachelor of Electronics Engineering Technology (BERZ) | 4   |
| 62  | BEEZ 4803   | ANATOMY & PHYSIOLOGY                       | Bachelor of Electronics Engineering Technology (BERZ) | 11  |
| 63  | BEEZ 4813   | MEDICAL IMAGING AND IMAGE PROCESSING       | Bachelor of Electronics Engineering Technology (BERZ) | 11  |
| 64  | BEEZ 4923   | MICROELECTRONIC FABRICATION                | Bachelor of Electronics Engineering Technology (BERZ) | 11  |
| 65  | BEEZ 4903   | SEMICONDUCTOR PROCESS                      | Bachelor of Electronics Engineering Technology (BERZ) | 9   |
| 66  | BEEZ 4823   | MEDICAL DEVICES AND INSTRUMENTATION        | Bachelor of Electronics Engineering Technology (BERZ) | 11  |
| 67  | BEEZ 4853   | BIOMEDICAL ETHICS ACTS, STANDARDS & SAFETY | Bachelor of Electronics Engineering Technology (BERZ) | 11  |
| 68  | BEEZ 4873   | VLSI DESIGN                                | Bachelor of Electronics Engineering Technology (BERZ) | 9   |
| 69  | BEEZ 4883   | DIGITAL IC DESIGN                          | Bachelor of Electronics Engineering Technology (BERZ) | 9   |

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|-----|-------------|--------------------------------------------------------------|-------------------------------------------------------------------|-----|
| 70  | BEEZ 4863   | RADIO NAVIGATION SYSTEM                                      | Bachelor of Electronics Engineering Technology (BERZ)             | 9   |
| 71  | BEEZ 4843   | BIOMEDICAL ENGINEERING MAINTENANCE                           | Bachelor of Electronics Engineering Technology (BERZ)             | 11  |
| 72  | BEEZ 4833   | BIOMECHANICS                                                 | Bachelor of Electronics Engineering Technology (BERZ)             | 11  |
| 73  | BEEZ 4913   | VLSI ARCHITECTURE                                            | Bachelor of Electronics Engineering Technology (BERZ)             | 11  |
| 74  | BEEZ 4893   | DIGITAL IC TESTING                                           | Bachelor of Electronics Engineering Technology (BERZ)             | 9   |
| 75  | BEEL 1112   | TECHNOLOGY SKILL AND DEVELOPMENT IN ELECTRONIC AUTOMATION 1  | Bachelor of Technology of Electronic Industrial Automation (BERL) | 9   |
| 76  | BEEL 1125   | PRODUCT DEVELOPMENT TECHNOLOGY                               | Bachelor of Technology of Electronic Industrial Automation (BERL) | 9   |
| 77  | BEEL 1135   | FLEXIBLE MANUFACTURING SYSTEM I                              | Bachelor of Technology of Electronic Industrial Automation (BERL) | 9   |
| 78  | BEEL 1142   | TECHNOLOGY SYSTEM PROGRAMMING I                              | Bachelor of Technology of Electronic Industrial Automation (BERL) | 9   |
| 79  | BEEL 1214   | TECHNOLOGY SKILL AND DEVELOPMENT IN ELECTRONIC AUTOMATION II | Bachelor of Technology of Electronic Industrial Automation (BERL) | 9   |

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|-----|-------------|---------------------------------------------|-------------------------------------------------------------------|-----|
| 80  | BEEL 1222   | NETWORK, SWITCHING AND ROUTING              | Bachelor of Technology of Electronic Industrial Automation (BERL) | 9   |
| 81  | BEEL 1234   | TECNOLOGY SYSTEM PROGRAMMING II             | Bachelor of Technology of Electronic Industrial Automation (BERL) | 9   |
| 82  | BEEL 1243   | PROFESSIONAL PRACTICES                      | Bachelor of Technology of Electronic Industrial Automation (BERL) | 9   |
| 83  | BEEL 2112   | TECHNOLOGY DATA ACQUISITION AND ANALYSIS I  | Bachelor of Technology of Electronic Industrial Automation (BERL) | 9   |
| 84  | BEEL 2125   | FLEXIVLE MANUFACTURING SYSTEM II            | Bachelor of Technology of Electronic Industrial Automation (BERL) | 9   |
| 85  | BEEL 2135   | EMBEDDED SYSTEM PROGRAMMING TOOL            | Bachelor of Technology of Electronic Industrial Automation (BERL) | 9   |
| 86  | BEEL 2143   | NETWORK SECURITY IMPLEMENTATION             | Bachelor of Technology of Electronic Industrial Automation (BERL) | 9   |
| 87  | BEEL 2214   | TECHNOLOGY DATA ACQUISITION AND ANALYSIS II | Bachelor of Technology of Electronic Industrial Automation (BERL) | 9   |
| 88  | BEEL 2222   | TECHNOLOGY SYSTEM OPTIMAZTION I             | Bachelor of Technology of Electronic Industrial Automation (BERL) | 9   |
| 89  | BEEL 2232   | APPLICATION SYSTEM DEVELOPMENT I            | Bachelor of Technology of Electronic Industrial Automation (BERL) | 9   |
| 90  | BEEL 2244   | TECHNOLOGY OPERATION MANAGEMENT             | Bachelor of Technology of Electronic Industrial Automation (BERL) | 9   |



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|-----|-------------|-----------------------------------|-------------------------------------------------------------------|-----|
| 91  | BEEL 2254   | TECHNOPRENEUR CAPSTONE I          | Bachelor of Technology of Electronic Industrial Automation (BERL) | 8   |
| 92  | BEEL 3114   | TECHNOLOGY SYSTEM OPTIMIZATION II | Bachelor of Technology of Electronic Industrial Automation (BERL) | 9   |
| 93  | BEEL 3124   | APPLICATION SYSTEM DEVELOPMENT II | Bachelor of Technology of Electronic Industrial Automation (BERL) | 9   |
| 94  | BEEL 3134   | TECHNOLOGY QUALITY MANAGEMENT     | Bachelor of Technology of Electronic Industrial Automation (BERL) | 9   |
| 95  | BEEL 3144   | TECHNOPRENEUR CAPSTONE II         | Bachelor of Technology of Electronic Industrial Automation (BERL) | 8   |
| 96  | BEEL 3215   | SYSTEM INTEGRATION DESIGNING      | Bachelor of Technology of Electronic Industrial Automation (BERL) | 9   |
| 97  | BEEL 3225   | MAINTENANCE MANAGEMENT SYSTEM     | Bachelor of Technology of Electronic Industrial Automation (BERL) | 8   |

**TOTAL COURSE: 97**