

# Post Graduate Diploma in ICT

Institute of Information and Communication Technology  
KUET

## Core Courses

|          |                                          |   |
|----------|------------------------------------------|---|
| ICT 5101 | Programming Concepts                     | 3 |
| ICT 5102 | Data Structures and Algorithms           | 3 |
| ICT 5103 | Database Design and Management           | 3 |
| ICT 5104 | Web Programming                          | 3 |
| ICT 5105 | Information System Analysis and Design   | 3 |
| ICT 5106 | Data Communication and Computer Networks | 3 |
| ICT 5107 | Communication Technology                 | 3 |
| ICT 52## | Optional I                               | 3 |
| ICT 52## | Optional II                              | 3 |
| ICT 52## | Optional III                             | 3 |

## Optional Courses

|         |                                                     |   |
|---------|-----------------------------------------------------|---|
| ICT5201 | Computer Organization and Architecture              | 3 |
| ICT5202 | Operating Systems                                   | 3 |
| ICT5203 | Digital Logic and Design                            | 3 |
| ICT5204 | Software Engineering                                | 3 |
| ICT5205 | Business System Engineering                         | 3 |
| ICT5206 | E-Commerce                                          | 3 |
| ICT5207 | Web Applications and Protocols                      | 3 |
| ICT5208 | Multimedia Technologies and Applications            | 3 |
| ICT5209 | Client Server Technologies and Distributed Database | 3 |
| ICT5210 | Data Mining                                         | 3 |
| ICT5211 | Network Management and Security                     | 3 |
| ICT5212 | Embedded System                                     | 3 |
| ICT5213 | VLSI System Design                                  | 3 |
| ICT5214 | Digital Communication                               | 3 |
| ICT5215 | Optical Communication                               | 3 |
| ICT5216 | Digital Image Processing                            | 3 |
| ICT5217 | Digital Signal Processing                           | 3 |
| ICT5218 | Computer Aided Design                               | 3 |