**ENGINEERING PROGRAM PROFORMA**

Please provide following tabulated data (program wise) as per given format:

**Table-I: ACCREDITATION STATUS (PROGRAM WISE)**

Name of Engineering Program: Electrical Engineering

|  |  |  |  |
| --- | --- | --- | --- |
| S # | Program Title | Accreditation of Intake Batches (Intake from-to) | Green Signal Zero/Interim Visits (Intake from-to) |
| 1. | Electrical Engineering | 2009-2010 | N/A |

**Table-II: STUDENTS SUMMARY (PROGRAM WISE)**

Name of Engineering Program: Electrical Engineering

|  |  |  |  |
| --- | --- | --- | --- |
| Study Year | Batch/Enrolment Year | No. of students | No. of Sections |
| 1st Year | 2014 | 142 | 4 |
| 2nd Year | 2013 | 125 | 3 |
| 3rd Year | 2012 | 126 | 3 |
| 4th Year | 2011 | 089 | 2 |
| Total | | 482 | 12 |

**Table-III: FACULTY SUMMARY (PROGRAM WISE)**

Name of Engineering Program: Electrical Engineering

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Faculty Teaching Engineering Subjects** | | | | **Faculty Teaching Non-Engineering Subjects** | | | |
| **BSc** | **MSc** | **PhD** | **Total** | **BSc** | **MSc** | **PhD** | **Total** |
| **Program Faculty (Dedicated)** | 15 | 11 | 10 | 36 | - | - | - | - |
| **Program Faculty (shared with other programs)** | - | - | - | - | - | - | - | - |
| **Shared Faculty (from other programs)** | - | - | - | - | - | 5 | 4 | 9 |
| **Visiting Engg. Faculty (from Industry, or other university)** | 2 | 1 | 1 | 4 | - | - | - | - |

**Table-IV: TEACHER RATIO (PROGRAM WISE)**

Name of Engineering Program: Electrical Engineering

|  |  |
| --- | --- |
| A. Total students currently enrolled in the Engineering Program | 482 |
| B. Total full-time dedicated Engineering faculty members | 24 |
| Student : Teacher Ration [A:B] | 20.08:1 |

**Table-V: FACULTY DETAILS RATIO (PROGRAM WISE)**

Name of Engineering Program: Electrical Engineering

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S.No.** | **Name** | **PEC No.** | **Desig.** | **Joining Date** | **Details of qualifications** | | | **Specialization** | **Experience** | |
| **Qualification** | **Year** | **Institution** | **Total** | **Teaching** |
| 1 | Engr. Dr. Waseem Ikram | Elect-04866 | Professor | 10-Aug-98 | **Ph.D.** (Electrical Engineering) **M.Sc.** (Microprocessor Systems) **B.Sc.** (Electrical Engineering) | 1990 1987 1985 | UMIST, UK UMIST, UK UET, Peshawar | Electrical Engg. Microprocessor Systems | 30 Years | 20 Years |
| 2 | Engr. Dr. M. Ayub Alvi | Elect-04507 | Professor | 2-Apr-83 | **Ph.D.** (Electrical Engineering) **M.Sc.** (Digital Electronics) **B.Sc.** (Electrical Engineering) | 1982 1978 1975 | UMIST, UK  UMIST, UK UET, Lahore | Electrical Engg. Digital Elec. | 40 Years | 33 years |
| 3 | Engr. Dr. Affan A. Syed | Elect-31966 | Assoc Prof | 27-Oct-10 | **Ph.D CS**  **MS** (Electrical Engineering)  **BE** (Electrical Engineering) | 2010  2004  2001 | University of Southern California, USA  University of Southern California, USA  NUST, Rawalpindi | Embedded Systems, Sensor Networks | 09 Years | 5 Years |
| 4 | Engr. Dr. Mukhtar Ullah | Elect-15798 | Assoc Prof. | 1-Aug-13 | **Ph.D** (Electrical Engineering)  **M.Sc. (**Control Engineering)  **B.Sc.** (Electrical Engineering) | 2009  2002  1999 | Uni of Rostock, Germany  UMIST, UK  UET, Peshawar | Systems Biology | 12.5 Years | 9 Years |
| 5 | Engr. Dr. Ataul Aziz Ikram | Elect-23636 | Assoc Prof. | 7-Aug-13 | **Ph.D** (Electrical Engineering)  **MS** (Electrical Engineering)  **BS** (Electrical Engineering) | 2007  2003  1997 | City College of City Uni. of New York, US  City College of City Uni. of New York, US  Middle East Technical University, Ankara, Turkey | Electrical & Electronic Engineering | 17 Years | 10 Years |
| 6 | Engr. Dr. Farhan Khalid | Electro/5587 | Asst. Prof. | 31-Jan-06 | **Ph.D** (Electrical Engineering)  M.S Engg  MS (Telecom Management)  BS (Electronic Engineering). | 2012  2005  2000  1998 | University of Stuttgart, Germany  Blekinge Inst. of Tech. Sweden  NPGITI (PTCL)/INT, France  GIKI, Topi, Swabi | Wireless Comm | 12 Years | 9 Years |
| 7 | Engr. Dr. Muhammad Saeed | Elec-14082 | Asst. Prof. | 11-Feb-08 | **Ph.D**  **M.Sc (**Telecom Engineering) **B.Sc** (Electrical Engineering) | 2012  2007 1997 | Beijing University of Posts and Telecommunications  ICT, Islamabad  UET, Peshawar | Engineering Management | 16 Years | 7 Years |
| 8 | Engr. Dr. Shahzad Saleem | --- | Asst. Prof. | 16-Aug-11 | **Ph.D** (Electrical Engineering)  **MS** (Computer Engineering)  **M.Sc** Electronics  **B.Sc** (Double Maths, Physics) | 2010  2005  1999  1996 | Graz University of Technology, Austria  UET, Taxila  QAU, Islamabad  Punjab University | Signal Processing | 16 Years | 4 Years |
| 9 | Engr. Dr. Nadeem Jelani | Elect-20524 | Asst. Prof. | 1-Sep-14 | **Ph.D** (Electrical Power Engg)  **MS** (Electrical Power Engg)  **B.Sc** (Electrical Engineering) | 2014  2010  2004 | NTNU, Norway  NTNU, Norway  UET, Peshawar | Power Electronics | 8 Years | 1 Year |
| 10 | Engr. Dr. Durdana Habib | Elect-4283 | Asst. Prof. | 15-Aug-07 | **Ph.D.** (Electrical Engineering)  **MS** (Computer Engineering) **B.Sc** (Electrical Engineering) | 2014  1998 1983 | UET, Taxila  NUST UET, Lahore | Electrical Engg | 27 Years | 11 Years |
| 11 | Engr. Aamer Munir | Elect-16058 | Asst. Prof. | 1-Aug-05 | **MS** (Electrical Engg) **B.Sc**. (Electrical Engg) | 2005 1998 | UET Taxila UET, Lahore | Electrical Engg | 17 Years | 10 Years |
| 12 | Engr. Raza Ur Raheem | Elect-22558 | Asst. Prof. | 15-Aug-06 | **MS** (Elect. & Computer Engineering)  **BE** (Electrical Engineering) | 1988 1985 | University of Florida, USA UET, Lahore | Computer Engineering | 30 Years | 20 Years |
| 13 | Engr. Shahid Qureshi | Comp-3599 | Asst. Prof. | 21-Aug-06 | **MS** (Comp. Engg.)  **BE** (Comp. Engg.) | 2006 2001 | CASE (UET Taxila) NUST, Rwp | Comp. Networks | 11 Years | 11 Years |
| 14 | Engr. Farooq Hussain | Electro-2770 | Asst. Prof. | 20-Sep-06 | **M.Sc** IT (Instrument System)  **BE** (Electronics Engg.) | 1998 1979 | City University, UK  NED, Karachi | Instrument System | 34 Years | 19 Years |
| 15 | Engr. Aamer Hafeez | Elect-8736 | Asst. Prof. | 30-Oct-08 | **MS** (Telecommunication Engg.) **BS** (Electrical Engg.) | 2004 1990 | ICT, UET, Peshawar UET, Lahore | Telecommunication | 24 Years | 10 Years |
| 16 | Engr. Ibrar Khan | Comp-4449 | Asst. Prof. | 1-Oct-07 | **MS** (Telecom Engg)  **BS** (Computer Engg.) | 2009  2007 | FAST – NUCES  CIIT, Abbotabad | Computer Engineering | 8 Years | 8 Years |
| 17 | Engr. Shehzad Ahmed | Comp-4004 | Asst. Prof. | 28-Feb-07 | **MS** (Computer Engg)  **BS** (Computer Engg.) | 2010  2006 | UET, Taxila  UET, Taxila | Computer Engineering | 8 Years | 8 Years |
| 18 | Engr. M. Arshad Hassan | Elect-23401 | Asst. Prof. | 15-Sep-08 | **MS** (Telecom Engg)  **BS** (Electrical Engg.) | 2011  2007 | FAST, Islamabad  CIIT, Abbotabad | Telecom Engineering | 7 Years | 7 Years |
| 19 | Engr. Sana Hasan | Tele-545 | Asst. Prof. | 9-Feb-09 | **MS** (Electrical Engineering)  **BS** (Telecom Engineering.) | 2012  2007 | FAST-NU, Islamabad  FAST-NU, Islamabad | Electrical Engineering | 6 Years | 6 Years |
| 20 | Engr. M. Rashid Karim | Tele-2379 | Asst. Prof. | 17-Jan-11 | **MS (**Microelecronics System Design)  **BS** (Telecom Engineering.) | 2012  2007 | University of Southampton, UK  FAST-NU, Islamabad | Microelectronics System Design | 4 Years | 4 Years |
| 21 | Engr. Attique Dawood | Tele-4705 | Asst. Prof. | 31-Jan-08 | **MS** (Electrical Engineering)  **BS** (Telecom Engineering) | 2014  2006 | FAST-NU, Islamabad  FAST-NU, Islamabad | Telecom Engineering | 7 Years | 7 Years |
| 22 | Engr. Rao Munizr | Elect-20469 | Lecturer | 9-Mar-06 | **B.Sc** (Electrical Engg.) Reg in MS (CASE) | 2004 | UET, Taxila | Embedded Systems | 9 Years | 9 Years |
| 23 | Engr. Furqan Farooq | Comp-4012 | Lecturer | 8-Mar-07 | **BS** (Computer Engg.) | 2006 | UET, Taxila | Computer Engineering | 8 Years | 8 Years |
| 24 | Engr. Ayman Bukhari | Tele-543 | Lab Engr | 1-Sep-08 | **BS** (Telecom Engineering)  Reg. in MS | 2007 | FAST-NU, Islamabad | Telecom Engineering | 7 Years | 7 Years |
| 25 | Engr. Hira Masood | Tele-2382 | Lab Engr | 9-Mar-10 | **BS** (Telecom Engineering)  Reg. in MS | 2008 | FAST-NU, Islamabad | Telecom Engineering | 5 Years | 5 Years |
| 26 | Engr. Hina Ashraf | Tele-2817 | Lab Engr | 25-Aug-10 | **BS** (Telecom Engineering)  Reg. in MS | 2010 | FAST-NU, Islamabad | Telecom Engineering | 4  Years | 4  Years |
| 27 | Engr. Fakhar Abbas | Tele-3085 | Lab Engr | 24-Feb-11 | **BS** (Telecom Engineering)  Reg. in MS | 2010 | FAST-NU, Peshawar | Telecom Engineering | 4  Years | 4  Years |
| 28 | Engr. Maryam Wasim | --- | Lab Engr | 29-Jul-2013 | **BS** (Electrical Engineering)  Reg in MS | 2013 | FAST-NU, Islamabad | Electrical Engineering | 1 Year | 1 Year |
| 29 | Engr. Moomal Bukhari | --- | Lab Engr | 29-Jul-2013 | **BS** (Electrical Engineering)  Reg in MS | 2013 | FAST-NU, Islamabad | Electrical Engineering | 1 Year | 1 Year |
| 30 | Engr. Naveed Iqbal | Elect-36766 | Lab Engr | 30-Jul-2013 | **BSc** (Electrical Engineering)  Reg in MS | 2008 | UET, Lahore | Electrical Engineering | 1 Year | 1 Year |
| 31 | Engr. Ahsan Khan | Elect-36654 | Lab Engr | 01-Aug-2013 | **B.A.Sc** (Electrical Engineering) | 2012 | University of Toronto | Electrical Engineering | 1.5 Yearss | 1 Year |
| 32 | Engr. Abdul Rehman | --- | Lab Engr | 11-Aug-14 | **BS** (Electrical Engineering)  Reg in MS | 2014 | FAST-NU, Peshawar | Electrical Engineering | 2 Months | 2 Months |
| 33 | Engr. Hafiz M. Wahaj Aziz | --- | Lab Engr | 12-Jul-14 | **BS** (Electrical Engineering)  Reg in MS | 2014 | FAST-NU, Islamabad | Electrical Engineering | 3 Months | 3 Months |
| 34 | Engr. Jahanzaib Zafar | Electro-18736 | Lab Engr | 12-Jul-14 | **BS** (Electronics Engineering)  Reg in MS | 2013 | International Islamic University, Islamabad | Electronics Engineering | 1 Year | 1 Year |
| 35 | Engr. Muhammad Sajjad | --- | Lab Engr | 12-Jul-14 | **BS** (Electrical Engineering)  Reg in MS | 2014 | FAST-NU, Islamabad | Electrical Engineering | 3 Months | 3 Months |
| 36 | Engr. Khalida Ambreeen | --- | Lab Engr | 12-Jul-14 | **BS** (Electrical Engineering)  Reg in MS | 2014 | FAST-NU, Islamabad | Electrical Engineering | 3 Months | 3 Months |

Shared Faculty Fall 2014

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No.** | **Name** | **Qualification** | **Specialization** | **Experience** | |
| **Total** | **Teaching** |
| 1 | Hafiz M. Tayyeb Nadeem | MS Islamic Studies | Comparative Religions | 8.3 | 8.3 |
| 2 | Shahzad Mahmood | MA English, MA TEFL | English Language Teaching | 10 | 10 |
| 3 | Dr. Farooq Ahmad Dar | PhD History | History of Pakistan | 19 | 19 |
| 4 | Ijaz-Ur-Rehman | M.A English, M.A TEFL | ELT | 13.5 | 13.5 |
| 5 | Dr. Iqtadar Hussain | PhD, Mathematics | Algebraic Cryptography | 4.5 | 4.5 |
| 6 | Muhammad Ali | M. Phil Mathematics | Applied Mathematics (Fluid Mechanics) | 7 | 7 |
| 7 | Dr. Muhammad Nuruddin Qazi | Ph.D Reactor Physics | Reactor Physics and Nuclear Physics | 60 | 60 |
| 8 | Dr. Raheel Mohi uddin | PhD Mathematics | Fluid Mechanics | 16 | 16 |
| 9 | Saima Afzal | M. Phil English | Linguistics | 14 | 14 |

Part-Time Faculty Fall 2014

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No.** | **Name** | **Qualification** | **Specialization** | **Experience** | |
| **Total** | **Teaching** |
| 1 | Engr. Zahid Hussain | MS Mechanical Engineering | Thermo-fluids | 10 Years | 07 Years |
| 2 | Engr. Liaquat Ali | MS Mechanical Engineering | Controls & Optimization | 20 Years | 17 Years |
| 3 | Ihtisham Khalid | BS Electrical Engineering | Electrical Engineering | 2 Months | 2 Months |
| 4 | Sohaib Khan | BS Electrical Engineering | Electrical Engineering | 2 Months | 2 Months |

**Table-VI: LABORATORY DETAILS (PROGRAM WISE)**

Name of Engineering Program: Electrical Engineering

Number of Total Engineering + Computing Courses: 15

Number of Lab Courses: 17

Number of Laboratories: 15

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S #** | **Name of Laboratory** | **Lab(s) of Course(s)** | **Type of Workstations** | **Nature of** | **No. of** |
| **(Staff Names-Qualifications)** | **Conducted in the Lab** | **(No. of each type)** | **Experiment** | **Workstations** |
| 1 | **Circuit Lab** | 1- Circuit Analysis I Lab | 1- Oscilloscope (22) | Hands-on |  |
| Engr.Abdul Rehman - BS(Electrical Engg) |  | 2- Functional Generator (22) | 22 |
| Mr.Rizwan Javaid (DAE Electrical) |  | 3- Digital Multimeter (25) | (2 Students/Bench) |
| Mr.Pervaiz Nazir (Matric) |  | 4- Bread Board (25) |  |
| 2 | **Physics Lab** | 1- Physics for Engineers Lab | 1- Van De Graff Generator, Fradays Cages | Hands-on |  |
| Engr.Moomal Bukhari - BS(Electrical Engg) |  | 2- Magnetic force on coils/wires | 10 |
| Mr.Ahsan Iqbal (DAE Electronics) |  | 3- Faraday’s law | (3 Students/Bench) |
| Mr.Zulfiqar Ahmed (Matric) |  | 4- Ohm Law |  |
| 3 | **Electronics Lab** | 1- Electronics Devices & Circuits | 1- Oscilloscope (22) | Hands-on |  |
| Engr.Rao Munzir Ahmed - B.Sc(EE) | 2- Functional Generator (22) | 22 |
| Mr.Khalid Usman (DAE Electronics) |  | 3- Digital Multimeter (25) | (2 Students/Bench) |
| Mr.Pervaiz Nazir (Matric) |  | 4- Bread Board (25) |  |
| 4 | **Microprocessor & Digital Electronics Lab** | 1- Digital Logic Design | 1- Digital Trainer (30) | Hands-on |  |
| Engr.Jahanzaib Zafar - BS(Electronics Engg) | 2- Microprocessor Interfacing and  Assembly Language | 2- Oscilloscope (27) |  |
| Engr.Ahsan Khan - B.A.Sc (Electrical Engg) | 3. Embedded System Lab | 3- Bread Board (30) | 24 |
| Mr.Atif Ikram (DAE Electronics) |  | 4- Programmer (6) | (2 Students/Bench) |
| Mr.Zulfiqar Ahmed (Matric) |  | 5- Computers (12) |  |
|  |  | 6- Arduino, Mbed, Launch Pad, Diff. Sensors |  |
| 5 | **Engineering Workshops** | 1- Engineering Workshop | 1- Electric Board, Phase Tester, Plier, Wire Cutter, Screw Driver etc. | Hands-on |  |
| **a) - Electric Shop** |  |  |
| **b) - Wood Shop** |  | 2- Wood Working Table, Tri Squre, Wood Saw, Chisel, Planner, Hammer, Different Files etc. | 30 |
| **c) - Metal Shop** |  |  | (1 Students/Bench) |
| Engr. Furqan Farooq - BS (Computer Engg) |  | 3- Working Table, Hex Saw, Different files, Tri Square, Divider, Hammer, Protector, Divider etc. |  |
| Mr.Waqas Khan (DAE Mechanical) |  |  |
| 6 | **Control Lab** | 1- Feedback Control Lab | 1- NI ELVIS II Board (10) | Hands-on |  |
| Engr. Hira Masood - BS (Telecom Engg) |  | 2- QNET DC Motor (10) |  |
| Mr.Ahsan Iqbal (DAE Electronics) |  | 3- QNET Inverted Pendulum (11) | 10 |
| Mr.Pervaiz Nazir (Matric) |  | 4- PLC Trainers (5) | (2-3 Students / Bench) |
|  |  | 5- Magnatic Lavitation (1) |  |
|  |  | 6- Computers (10) |  |
| 7 | **Machine Lab** | 1- Electrical Mechhnical Systems Lab | 1- Machine Trainer (7) | Hands-on |  |
| Engr.Naveed Iqbal - B.Sc (Eelctrical Engg) | 2- Transformer Trainer (6) | 7 |
| Mr.Muhammad Younis (DAE Electronics) | 2- Power Electronics | 3- AC Machine Trainer (6) | (3 Students/Bench) |
| Mr.Zulfiqar Ahmed (Matric) |  | 4- DC Machine Trainer (2) |  |
|  |  | 5- Power Electronic Trainer (5) |  |
| 8 | **Instrumentation & Measurement Lab** | 1- Instrumentation & Measurement Lab | 1- NI DAQ Unit (5) | Hands-on |  |
| Engr.Fakhar Abbas - BS (Telecom Engg) | 2- Sensors Kit (10) | 10 |
| Mr.Ahsan Iqbal (DAE Electronics) | 2- Industrial Process Control | 3- PLC S7-1200 (6) , HMI (6) | (3-4 Students/Bench) |
| Mr.Pervaiz Nazir (Matric) |  | 4- Computer (5) |  |
| 9 | **Antenna & Microwave Lab** | 1- Wave Propagation & Antenna Theory | 1- Antenna Trainer (4) | Hands-on |  |
| Engr.Ayman Bukhari - BS (Telecom Engg) | 2- Transmission Line Trainer (5) | 5 |
| Mr.Rizwan Javaed (DAE Electrical) |  | 3- Microwave Trainer (2) | (3-4 Students / Bench) |
| Mr.Pervaiz Nazir (Matric) |  | 4- Microstrip Trainer (2) |  |
| 10 | **Communication Lab** | 1- Analog & Digital Communication Lab | 1- Communication Trainer (10) | Hands-on |  |
| Engr.Ayman Bukhari - BS (Telecom Engg) | 2- Oscilloscope (10) | 10 |
| Mr.Atif Ikram (DAE Electronics) |  | 3- Digital Multimeter (10) | (2-3 Students / Bench) |
| Mr.Zulfiqar Ahmed (Matric) |  | 4- Computer (15) |  |
| 11 | **Data Comunication & Networks Lab** | 1- Data Communication & Networks Lab | 1- Wireless Router (15) | Hands-on |  |
| Engr. Ithsham Khalid - BS (Electrical Engg) | 2- Network Switch (6) | 25 |
| Mr.Atif Ikram (DAE Electronics) |  | 3- Cable Tester & Crimping Tool (12) | (1 Student/Bench) |
| Mr.Zulfiqar Ahmed (Matric) |  | 4- Computer (25) |  |
| 12 | **Final Year Project Lab** | 1- Final Year Project I | 1- Oscilloscope (5) | Hands-on |  |
| Mr.Saqib Shahbaz (DAE Electronics) | 2- Final Year Project II | 2- Function Generator (13) |  |
|  |  | 3- Power Supply (50) | 40 |
|  |  | 4- Bread Board (50) | (2-4 Students / Bench) |
|  |  | 5- Multimeter (50) |  |
|  |  | 6- Computers (40) |  |
| 13 | **Rohtas Lab (Computer Lab)** | 1- Digital Signal Processing Lab | 1- DSP Kit (15) | Hands-on | 34 |
| Engr.Ibrar Khan - MS (Telecom Engg) |  | 2- Computer (34) | (1 Student/Bench) |
| Mr.Khalid Usman (DAE Electronics) |  |  |  |
| 14 | **Pothar Lab (Computer Lab)** | 1- Programming for Engineers | 1- Computer (40) | Hands-on | 40 |
| Engr.Hina Ashraf - BS (Telecom Engg) |  |  | (1 Student/Bench) |
| Engr. M. Wahaj Aziz – BS (Electrical Engg) |  |  |  |
| Mr.Nadeem Abbas (BA) |  |  |  |
| 15 | **Kohsar Lab (Computer Lab)** | 1- Signal & System Lab | 1- Computer (40) | Hands-on | 40 |
| Engr.Ibrar Khan - MS (Telecom Engg) |  |  | (1 Student/Bench) |
| Mr.Sohail Afzal (BS-CS) |  |  |  |