

Appendix-A

Format of CPD Yearly Calendar by PEBs

| CPD Activities Calendar for the year 2019 | | | | | | | |
|---|---|--------------------------------|------------------|------------------------------|-------------------|--------------------|-------------------|
| PEB Name: | | NUST | | | | | |
| PEB Reg. # | | PEB – F – NUSTIS – 0011 | | | | | |
| Name of PEB Coordinator: | | Mr. Waleed Noor Malik | | | | | |
| Sr. # | CPD Title | CPD Category - Type | Location | Date | Collaboration | Recourse Person | CPD Credit Points |
| 1 | Electrical Circuit and Machine Fundamentals | Category "c" (Short Course) | CAE, Risalpur | 7-Jan-19 To 11-Jan-19 | CAE, NUST and PEC | Dr Liaqat Ali Khan | 1 |
| 2 | Quality Control | Category "c" (Short Course) | CAE, Risalpur | 14-Jan-19 To 1-Feb-19 | CAE, NUST and PEC | Prof M Irfan Aziz | 1 |
| 3 | Space Mission Analysis and Design | Category "c" (Short Course) | CAE, Risalpur | 28-Jan-19 To 30-Jan-19 | CAE, NUST and PEC | Dr Ali Sarosh | 1 |
| 4 | Project Management | Category "c" (Short Course) | CAE, Risalpur | 4-Feb-19 To 8-Feb-19 | CAE, NUST and PEC | Dr Ali Sarosh | 1 |
| 5 | Primary Professional Training (for fresh graduates) | Category "c" (Short Course) | CAE, Risalpur | 11-Feb-19 To 20-Mar-18 | CAE, NUST and PEC | Prof M Irfan Aziz | 1 |
| 6 | EM Modelling and Microwave System Design | Category "c" (Short Course) | CAE, Risalpur | 11-Feb-19 To 15-Feb-19 | CAE, NUST and PEC | Dr Liaqat Ali Khan | 1 |
| 7 | Advance Design Methods | Category "c" (Short Course) | CAE, Risalpur | 25-Feb-19 To 27-Feb-19 | CAE, NUST and PEC | Dr Syed Irteza | 1 |
| 8 | Fatigue, Fracture and Material Failure Analysis | Category "c" (Short Course) | CAE, Risalpur | 4-Mar-19 To 6-Mar-19 | CAE, NUST and PEC | Dr Syed Irteza | 1 |
| 9 | Rocket Propulsion for Ballistic Systems | Category "c" (Short Course) | CAE, Risalpur | 11-Mar-19 To 13-Mar-19 | CAE, NUST and PEC | Dr Ali Sarosh | 1 |

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| 10 | Fundamentals of Weapon Engineering | Category "c" (Short Course) | CAE, Risalpur | 22-Apr-19 To 3-May-19 | CAE, NUST and PEC | Prof M Irfan Aziz | 1 |
| 11 | Structural Health Monitoring | Category "c" (Short Course) | CAE, Risalpur | 29-Apr-19 To 2-May-19 | CAE, NUST and PEC | Dr Syed Irteza | 1 |
| 12 | Jet Engine Performance and Design Course | Category "c" (Short Course) | CAE, Risalpur | 12-Jun-19 To 14-Jun-19 | CAE, NUST and PEC | Dr Syed Irteza | 1 |
| 13 | Senior Engineering Management (SEM) Course | Category "c" (Short Course) | CAE, Risalpur | 17-Jun-19 To 12-Jul-19 | CAE, NUST and PEC | Prof M Irfan Aziz | 1 |
| 14 | Weapon Squadron Management | Category "c" (Short Course) | CAE, Risalpur | 8-Jul-19 To 19-Jul-19 | CAE, NUST and PEC | Prof M Irfan Aziz | 1 |
| 15 | Advance Radar Signal Processing | Category "c" (Short Course) | CAE, Risalpur | 22-Jul-19 To 24-Jul-19 | CAE, NUST and PEC | Dr Liaqat Ali Khan | 1 |
| 16 | Aerospace Flight Line Management Course | Category "c" (Short Course) | CAE, Risalpur | 22-Jul-19 To 2-Aug-19 | CAE, NUST and PEC | Prof M Irfan Aziz | 1 |
| 17 | System Engineering Principles Course | Category "c" (Short Course) | CAE, Risalpur | 5-Aug-19 To 7-Aug-19 | CAE, NUST and PEC | Dr Ali Sarosh | 1 |
| 18 | Jet Engine Performance and Design Course | Category "c" (Short Course) | CAE, Risalpur | 7-Aug-19 To 9-Aug-19 | CAE, NUST and PEC | Dr Syed Irteza | 1 |
| 19 | Primary Professional Training (PPT) for fresh graduates | Category "c" (Short Course) | CAE, Risalpur | 19-Aug-19 To 27-Sep-19 | CAE, NUST and PEC | Prof M Irfan Aziz | 1 |
| 20 | Fundamentals of Space Technology | Category "c" (Short Course) | CAE, Risalpur | 19-Aug-19 To 21-Aug-19 | CAE, NUST and PEC | Prof M Irfan Aziz | 1 |
| 21 | Advance Computing Architecture | Category "c" (Short Course) | CAE, Risalpur | 26-Aug-19 To 28-Aug-19 | CAE, NUST and PEC | Dr Liaqat Ali Khan | 1 |

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| 22 | Space Mission Analysis and Design | Category "c" (Short Course) | CAE, Risalpur | 7-Oct-19 To 9-Oct-19 | CAE, NUST and PEC | Dr Ali Sarosh | 1 |
| 23 | Senior Engineering Officer (Elect) Course | Category "c" (Short Course) | CAE, Risalpur | 21-Oct-19 To 1-Nov-19 | CAE, NUST and PEC | Prof M Irfan Aziz | 1 |
| 24 | Junior Maintenance Management (JMM) Course | Category "c" (Short Course) | CAE, Risalpur | 4-Nov-19 To 29-Nov-19 | CAE, NUST and PEC | Prof M Irfan Aziz | 1 |
| 25 | Structural Health Monitoring | Category "c" (Short Course) | CAE, Risalpur | 4-Nov-19 To 6-Nov-19 | CAE, NUST and PEC | Dr Syed Irteza | 1 |
| 26 | MATLAB Application in Engineering | Category "c" (Short Course) | CAE, Risalpur | 11-Nov-19 To 13-Nov-19 | CAE, NUST and PEC | Dr Liaqat Ali Khan | 1 |
| 27 | Advance Design Methods | Category "c" (Short Course) | CAE, Risalpur | 18-Nov-19 To 20-Nov-19 | CAE, NUST and PEC | Dr Syed Irteza | 1 |
| 28 | Introduction to Dynamics and Automatic Control of Flight | Category "c" (Short Course) | CAE, Risalpur | 25-Nov-19 To 27-Nov-19 | CAE, NUST and PEC | Dr Syed Irteza | 1 |
| 29 | Space Situational Awareness (SSA) Course & Workshop | Category "c" (Short Course) | CAE, Risalpur | 2-Dec-19 To 4-Dec-19 | CAE, NUST and PEC | Dr Ali Sarosh | 1 |
| 30 | Aerospace Flight Line Management (FLMC) | Category "c" (Short Course) | CAE, Risalpur | 2-Dec-19 To 13-Dec-19 | CAE, NUST and PEC | Prof M Irfan Aziz | 1 |
| 31 | Introduction to CAD/CAM | Category "c" (Short Course) | CAE, Risalpur | 9-Dec-19 To 11-Dec-19 | CAE, NUST and PEC | Dr Syed Irteza | 1 |
| 32 | Senior Engineering Officer (Elect) Course | Category "c" (Short Course) | CAE, Risalpur | 16-Dec-19 To 27-Dec-19 | CAE, NUST and PEC | Prof M Irfan Aziz | 1 |
| 33 | Supply Chain Management for Engineers | Category "c" (Short Course) | CAE, Risalpur | 16-Dec-19 To 18-Dec-19 | CAE, NUST and PEC | Dr Ali Sarosh | 1 |

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| 34 | Fatigue, Fracture and Material Failure Analysis | Category "c" (Short Course) | CAE, Risalpur | 30-Dec-19 To 1-Jan-20 | CAE, NUST and PEC | Dr Syed Irtiza | 1 |
| 35 | Fundamentals of Weapon Engineering | Category "c" (Short Course) | CAE, Risalpur | 30-Dec-19 To 10-Jan-20 | CAE, NUST and PEC | Prof M Irfan Aziz | 1 |
| 36 | Electrical Circuits and Machine Fundamentals | Category "c" (Short Course) | CAE, Risalpur | 6-Jan-20 To 8-Jan-20 | CAE, NUST and PEC | Dr Liaqat Ali Khan | 1 |
| 37 | Project Management | Category "c" (Short Course) | CAE, Risalpur | 13-Jan-20 To 15-Jan-20 | CAE, NUST and PEC | Dr Ali Sarosh | 1 |
| 38 | Jet Engine Performance and Design Course | Category "c" (Short Course) | CAE, Risalpur | 15-Jan-20 To 17-Jan-20 | CAE, NUST and PEC | Dr Syed Irtiza | 1 |
| 39 | Quality Control Course | Category "c" (Short Course) | CAE, Risalpur | 20-Jan-20 To 7-Feb-20 | CAE, NUST and PEC | Prof M Irfan Aziz | 1 |
| 40 | Rocket Propulsion for Ballistic Systems | Category "c" (Short Course) | CAE, Risalpur | 10-Feb-20 To 12-Feb-20 | CAE, NUST and PEC | Dr Ali Sarosh | 1 |
| 41 | Primary Professional Training (PPT) for fresh graduates | Category "c" (Short Course) | CAE, Risalpur | 10-Feb-20 To 20-Mar-20 | CAE, NUST and PEC | Prof M Irfan Aziz | 1 |
| 42 | Structural Health Monitoring | Category "c" (Short Course) | CAE, Risalpur | 24-Feb-20 To 26-Feb-20 | CAE, NUST and PEC | Dr Syed Irtiza | 1 |
| 43 | Advance Design Methods | Category "c" (Short Course) | CAE, Risalpur | 2-Mar-20 To 4-Mar-20 | CAE, NUST and PEC | Dr Syed Irtiza | 1 |
| 44 | Introduction to CAD/CAM | Category "c" (Short Course) | CAE, Risalpur | 1-Jun-20 To 3-Jun-20 | CAE, NUST and PEC | Dr Syed Irtiza | 1 |
| 45 | Senior Engineering Management (SEM) Course | Category "c" (Short Course) | CAE, Risalpur | 1-Jun-20 To 26-Jun-20 | CAE, NUST and PEC | Prof M Irfan Aziz | 1 |

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| 46 | Emerging Issues of Transportation in Pakistan Analysis & Way Forward | Seminar | Military College of Engineering, Risalpur | 04 Feb 19 | | Brig Dr Intikhab Ahmed Qureshi | 1 |
| 47 | Seismic Design of Building | Workshop | Headquarter 494 Engineers Group, Karachi | Feb 19 | | Lt Col Dr Adeel Zafar | 1 |
| 48 | Supply Chain Management and its Linkage with CPEC | Seminar | Headquarter Engineers 31 Corps, Bahawalpur | 25 Feb 19 | | Maj Dr Rai Waqas Azfar | 1 |
| 49 | Climate Change Adoption and Disaster Risk Reduction | International Conference | Main Office NUST, Islamabad | Feb 19 | | Maj Dr Naeem Shahzad | 1 |
| 50 | Mineral Dev for Growth | Workshop | Headquarter Engineers 31 Corps, Bahawalpur | Mar 19 | | Lt Col Dr Hamid Ashraf Yousafzai | 1 |
| 51 | Sustainable Urban Transportation | Workshop | Military College of Engineering, Risalpur | Mar 19 | | Col Dr Muhammad Irfan | 1 |

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| 52 | Road Safety Issues of Pakistan | Workshop | 477 Army Survey Group Engineers , Rawalpindi | Apr 19 | | Lt Col Dr Anwaar Ahmed | 1 |
| 53 | Structural Design Philosophy | Workshop | Military College of Engineering, Risalpur | Jul/ Aug | | Asst Prof Dr Shahid Siddique | 1 |
| 54 | Use of Software in Geotech Design | Workshop | Military College of Engineering, Risalpur | Aug 19 | | Col Dr Kamran Akhtar | 1 |
| 55 | Water Management of Flood Control | Workshop | Headquarter Engineers 4 Corps, Lahore | Aug 19 | | Lt Col Dr Irfan Abid | 1 |
| 56 | Transportation Aspects of CPEC | Seminar | Military College of Engineering, Risalpur | Sep 19 | | Col Dr Muhammad Bilal Khurshid | Seminar |
| 57 | Road Safety Issues of Pakistan | Workshop | Headquarter Engineers 4 Corps, Lahore | Sep 19 | | Lt Col Dr Anwaar Ahmed | Workshop |
| 58 | Seismicity and Seismic Performance of Buildings | Seminar | Headquarter Engineers 4 Corps, Lahore | Oct/Nov 19 | | Maj Dr Muhammad Rizwan | Seminar |

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| 59 | Supply Chain Management and its Linkage with CPEC | Seminar | Headquarter Engineers 5 Corps, Karachi | Dec 19 | | Maj Dr Rai Waqas Azfar | Seminar |
| 60 | Satellite Communication | C Lecture | MCS NUST | 24-Jan-19 | NUST | Dr Adil Masood Siddiqui Dr Amer Ahsan Gillani | C Lecture |
| 61 | Research Tool | C-Workshop | MCS NUST | 27-Feb-19 | | Dr Yawar Abbas Bangash | C-Workshop |
| 62 | Research Paper Writing Using Latex Software | C-Workshop | MCS NUST | 06-Mar-19 | | Dr Muhammad Imran | C-Workshop |
| 63 | How to Write Technical Research Paper | C-Workshop | MCS NUST | 17-Apr-19 | | Dr Abdul Rauf | 1 |
| 64 | Blockchain | C-Workshop | MCS NUST | 27-Apr-19 | | Dr Ayesha Maqbool | 1 |
| 65 | An Editor's Perspective of Publishing Quality Research | C-Lecture | MCS NUST | 14-May-19 | | Dr Haider Abbas | 0.5 |
| 66 | Millimeter Wave Technology for Military Application | C-Lecture | MCS NUST | 18-May-19 | | Dr Farooq Ahmed Bhatti | 0.5 |
| 67 | Millimeter Wave Technology for Military Application | C-Lecture | MCS NUST | 25-May-19 | | Dr Farooq Ahmed Bhatti | 0.5 |
| 68 | Cyber Security: Staying safe on the Internet, Social Media and Mobile Phone | C-Workshop | MCS NUST | 26-Jun-19 | | Dr Abdul Rauf | 0.5 |
| 69 | Antenna Design for Mobile | C-Workshop | MCS | 30-Jul-19 | | Dr Zeshan Zahid | 1 |

| | Devices | | NUST | | | | |
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| 70 | Climate Change: Challenges, Vulnerabilities and Mitigation Strategies in Pakistan | C-Workshop | MCS NUST | 23-Oct-19 | | Dr Abdul Rauf | 1 |
| 71 | International Workshop on "Sustainable Urban Water Technologies and Construction" | Environmental Engineering | IESE Seminar Hall, NUST | November 27, 2018 | Leeds Beckett University, UK | Prof. Chris Gorse, Prof. Ian Strange, Prof. Parneet Paul, Prof. Sher Jamal Khan, Dr. M. Jamaluddin | 1 |
| 72 | Three Days Workshop on Advanced Characterization Techniques for Professionals | | SCME, NUST | 23rd-25th April 2019 | | Dr A Q Malik, Dr Tayyaba Noor, Dr Habib Nasir, Dr Iftakhar H. Gul, Dr Khurram yaqoob, Dr Aftab Akram | |
| 73 | Workshop on Fuel Processing, Storage and Handling | | PDC, NUST | March 2019 tentative | | Dr Arshad Hussain, Dr A Q Malik, Dr Tayyaba Noor | |
| 74 | Hands-on workshop on Fluid and solid Mechanics with latest trend | Simulation | SMME | April 2019 | | Dr. Emad / Dr Aamir | 1 |
| 75 | Advance workshop on Fluid and solid Mechanics with latest trend | Simulation | SMME | Nov 2019 | - | Dr. Emad/ Dr Aamir | 1 |
| 76 | Manufacturing Standards | Workshop | Attock Cement | Feb 2019 | - | Muhammad Naweed Hassan | 01 |

Note: Please refer Annexure-A of PDE Bye-laws 2008 for CPD category and CPD credit points for each activity.

