

Table 5.3 Applicants and intake of students over last years (Annexure H)

| Sr. No. | Intake Batch | Total Applicants | Total Admissions offered* | Students Strength | No. of Section(s) |
|---------|--------------|------------------|---------------------------|-------------------|-------------------|
| 1 | Fall 2019 | 2810 | 200 | 98 | 2 |
| 2 | Fall 2018 | 2530 | 185 | 100 | 2 |
| 2 | Fall 2017 | 2180 | 173 | 99 | 2 |
| 3 | Fall 2016 | 2500 | 173 | 99 | 2 |

Faculty

| Sr. No. | Name | PEC # | Designation | Joining Date | Details of Qualifications | | | Specialization | Experience Teaching (Total) Years |
|---------|-----------------------------|-----------|--------------------------------|--------------|---------------------------|------|--------------------------------|----------------------|-----------------------------------|
| 1 | Prof. Dr. Niaz Ahmad Akhtar | Chem/1471 | Vice Chancellor (PU)/Professor | 1/10/1988 | Ph.D. | 1995 | Leeds University UK | Chemical Engineering | 31 |
| 2 | Prof. Abdullah Khan Durrani | Chem/2059 | Director / Professor | 26/04/1993 | Ph.D. | 2007 | University of the Punjab | Chemical Engineering | 26 |
| | | | | | B.Sc | 1988 | ICET, University of the Punjab | Chemical Engineering | |

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|---|---------------------------------|-----------|-------------------------|------------|-------|-----------|--------------------------------------|----------------------|----|
| 3 | Prof. Dr. Mahmood Saleem | Chem/2544 | Director / Professor | 26-01-1994 | Ph.D. | 2003-2007 | Graz University of Technology | Chemical Engineering | 26 |
| | | | | | MS | 1997-1998 | University of the Punjab | Chemical Engineering | |
| | | | | | BS | 1986-1991 | University of the Punjab | Chemical Engineering | |
| 4 | Prof. Dr. Rafiullah Khan | Chem/2543 | Chairman / Professor | 2/1/1995 | Ph.D. | 2004-2008 | University of Karlsruhe, Germany | Chemical Engineering | 25 |
| | | | | | M.Sc | 1999-2000 | University of the Punjab, Lahore. | Chemical Engineering | |
| | | | | | B.Sc | 1986-1991 | University of the Punjab, Lahore. | Chemical Engineering | |
| 5 | Prof. Dr. M. Arif Butt | Chem/529 | Professor Emeritus | 24/02/1971 | Ph.D. | 1978 | Leeds University UK | Chemical Engineering | 48 |
| | | | | | M.Sc | 1971 | ICET, University of the Punjab | Chemical Engineering | |
| | | | | | B.Sc | 1970 | ICET, University of the Punjab | Chemical Engineering | |
| 7 | Prof. Dr. Syed Nadir Hussain | chem/3590 | Professor | 10/3/2002 | Ph.D. | 2008-2012 | University of Manchester, Uk | Chemical Engineering | 18 |
| | | | | | M.S | 2003-2004 | University of the Punjab, Lahore. | Chemical Engineering | |
| | | | | | B.Sc. | 1991-1996 | University of the Punjab, Lahore. | Chemical Engineering | |
| 8 | Dr. Hafiz Anwaar Asghar | chem/4895 | Professor | 1/6/2003 | Ph.D. | 2011 | University of Manchester, UK | Chemical Engineering | 17 |
| | | | | | M.Sc | 2006 | ICET, University of the Punjab | Chemical Engineering | |

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|----|--------------------------------|-----------|---------------------|------------|-------|------|---|----------------------|----|
| | | | | | B.Sc | 2001 | ICET, University of the Punjab | Chemical Engineering | |
| 9 | Pof. Dr. Muhammad Rashid Usman | chem/4345 | Professor | 24-01-2000 | Ph.D. | 2011 | University of Manchester, UK | Chemical Engineering | 18 |
| | | | | | M.Sc | 2001 | ICET, University of the Punjab | Chemical Engineering | |
| | | | | | B.Sc. | 1999 | ICET, University of the Punjab | Chemical Engineering | |
| 10 | Dr. Amir Shafeeq | chem/3455 | Professor | 3/1/2002 | Ph.D. | 2008 | University of Technology PETRONAS, Malaysia | Chemical Engineering | 18 |
| | | | | | M.Sc | 2000 | University of the Punjab | Chemical Engineering | |
| | | | | | B.Sc. | 1998 | University of the Punjab | Chemical Engineering | |
| 11 | Dr. Majid Majeed Akbar | chem/5119 | Professor | 16-06-2004 | Ph.D. | 2013 | University of Technology PETRONAS | Chemical Engineering | 16 |
| | | | | | M.Sc | 2009 | University of the Punjab | Chemical Engineering | |
| | | | | | B.Sc | 2004 | University of the Punjab | Chemical Engineering | |
| 12 | Dr. Ayyaz Muhammad | chem/4203 | Associate Professor | 28-02-2002 | Ph.D. | 2009 | University of Technology PETRONAS | Chemical Engineering | 18 |
| | | | | | M.Sc | 2003 | University of the Punjab | Chemical Engineering | |
| | | | | | B.Sc | 2001 | University of the Punjab | Chemical Engineering | |

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| 13 | Dr. Khurram Shahzad | chem/5112 | Associate Professor | 30-06-2010 | Ph.D. | 2013 | University of the Punjab | Chemical Engineering | 10 |
| | | | | | M.Sc | 2007 | University of the Punjab | Chemical Engineering | |
| | | | | | B.Sc | 2004 | University of the Punjab | Chemical Engineering | |
| 14 | Dr. Javeed Ashraf Awan | chem/5121 | Associate Professor | 9/4/2004 | Ph.D. | 2009 | Centre for Energy & Process Mines - Paris Tech, France | Chemical Engineering | 16 |
| | | | | | M.Sc | 2006 | University of the Punjab | Chemical Engineering | |
| | | | | | B.Sc | 2004 | University of the Punjab | Chemical Engineering | |
| 15 | Dr. Hamed Sattar | chem/5118 | Associate Professor | 11/1/2002 | Ph.D. | 2013 | Leads University | Chemical Engineering | 17 |
| | | | | | M.Sc | 2006 | University of the Punjab | Chemical Engineering | |
| | | | | | B.Sc | 2002 | University of the Punjab | Chemical Engineering | |
| 16 | Dr. Syed Sheraz Daood | chem/4668 | Associate Professor | 15/06/2004 | Ph.D. | 2011 | University of Leeds, UK | Chemical Engineering | 16 |
| 17 | Dr. Javed Akhtar | chem/5461 | Associate Professor | 28-05-2007 | Ph.D. | 2012 | Universiti Technology Malaysia | Chemical Engineering | 18 |
| | | | | | M.Sc | 2006 | University of the Punjab | Chemical Engineering | |
| | | | | | B.Sc | 2002 | University of the Punjab | Chemical Engineering | |

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| 18 | Dr. Rabya Aslam | chem/7729 | Associate Professor | 17-09-2009 | Ph.D. | 2016 | FAU Erlangen | Chemical Engineering | 11 |
| | | | | | M.Sc | 2012 | University of the Punjab | Chemical Engineering | |
| | | | | | B.Sc | 2009 | University of the Punjab | Chemical Engineering | |
| 19 | Dr. Sofia Ch. | chem/8421 | Assistant Professor | 4/6/2009 | Ph.D. | 2018 | Murdoch University, Australia | Chemical Engineering | 11 |
| | | | | | M.Sc | 2007 | University of the Punjab | Chemical Engineering | |
| | | | | | B.Sc | 2005 | University of the Punjab | Chemical Engineering | |
| 20 | Engr. Mudassar Azam | chem/7380 | Assistant Professor | 6/5/2008 | M.Sc | 2011 | University of the Punjab | Chemical Engineering | 12 |
| | | | | | B.Sc | 2007 | University of the Punjab | Chemical Engineering | |
| 21 | Dr. Bilal Haider | chem/5167 | Assistant Professor | 4/6/2009 | Ph.D. | 2017 | FAU Erlangen | Chemical Engineering | 11 |
| | | | | | M.Sc | 2011 | University of the Punjab | Chemical Engineering | |
| | | | | | B.Sc | 2004 | University of the Punjab | Chemical Engineering | |
| 22 | Dr. Toor-e-Aiman Rizvi | chem/8417 | Assistant Professor | 13-02-2008 | Ph.D. | 2015 | Leads University | Chemical Engineering | 12 |
| | | | | | M.Sc | 2010 | University of the Punjab | Chemical Engineering | |
| | | | | | B.Sc | 2007 | University of the Punjab | Chemical Engineering | |

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| 23 | Dr. Asim Hassan Rizvi | chem/8411 | Assistant Professor | 14-10-2006 | Ph.D. | 2016 | University of the Punjab | Chemical Engineering | 14 |
| | | | | | M.Sc | 2009 | University of the Punjab | Chemical Engineering | |
| | | | | | B.Sc | 2005 | University of the Punjab | Chemical Engineering | |
| 24 | Dr. Syed Zohaib Zadi | chem/8354 | Lecturer | 11/12/2012 | Ph.D. | 2019 | University of Southampton | Chemical Engineering | 7 |
| | | | | | M.Sc | 2014 | University of the Punjab | Chemical Engineering | |
| | | | | | B.Sc | 2010 | University of the Punjab | Chemical Engineering | |
| 25 | Dr. Saadia Mumtaz | NA | Assistant Professor | 11/12/2019 | Ph.D. | 2018 | | Mathematics | 4 |
| 26 | Dr. Mujtaba Ikram | NA | Assistant Professor | 2019 | Ph.D. | 2018 | UESTC China | Phycis | 9 Months |
| 27 | Dr. Muhammad Usman Rashid | chem/8157 | Assistant Professor | 12/3/2020 | Ph.D. | 2017 | Univeristy of Malaya | Chemical Engineering | 02 years |

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| 28 | Engr. Sana Ullah | chem/8309 | Lecturer | 01/10/1012 | M.Sc | 2016 | University of the Punjab | Chemical Engineering | 8 |
| | | | | | B.Sc | 2010 | University of the Punjab | Chemical Engineering | |
| 29 | Engr. Ali Nadeem | chem/8322 | Lecturer | 19-01-2012 | M.Sc | 2012 | University of the Punjab | Chemical Engineering | 8 |
| | | | | | B.Sc | 2010 | University of the Punjab | Chemical Engineering | |

Table 7.1 Details of laboratories and staff at ICET (Annexure G)

| Sr. No. | Name of Laboratory (Staff Names-- Qualifications) | Lab(s) of Course(s) Conducted in the Lab. | Type(s) of Workstations (No. of each type) | Nature of Experiments | No. of Students per Workstation |
|---------|---|--|--|-----------------------|---------------------------------|
| 1 | Applied Chemistry Lab 1.Engr.Abid Mehmood [Lab Engineer M.Sc Chemical Engineering] 2: Mr. M. Shakeel [Sr. Lab Attend. – Middle] 3: Mr. Elahi Bakhsh [Lab Attend. – Matric] | 1. Applied organic Chemistry Lab 2. Chemical Process Industry Lab 3. Applied Inorganic Chemistry Lab | 1.Titration apparatus 2.Oven 3.Centrifuge 4.Desiccator | Hands on Experience | Two to Four |
| 2 | Applied Physics Lab 1: Mr. M. Qasim [Lab Attend. – FA] | Applied Physics Lab | 1.Galvanometer 2. Ammeter, 3.flywheel, 4.Carey Foster Bridge, 5.Post Office Box, 6.Compound Pendulum, 7.Sextant apparatus, 8.Maxwell needle, 9.Potentiometer, 10.RLC series (acceptor) Circuit, 11. RLC parallel (rejector) Circuit | Hands on Experience | Two to Four |

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| 3 | <p>Main Chemical Engineering Lab 1:Dr.Amir Shafiq [Prof.Dr. PhD] 2: Mr. Hz M. Younas [Assoc. Engg.- DAE (CHEM)] 3: Mr. Mirza Salah-ud-din [Boiler Asst.– Diploma] 4: Mr. Ashfaq Ahmad Faheem [Lab. Assistant - Matric] 5: Mr. Asif Iqbal [Jr. Technician] 6: Mr. Sajjad Rafiq [Lab. Attend. - Matric]</p> | <ol style="list-style-type: none"> 1. Fundamental of Heat Transfer Lab 2. Fluid and Particle Mechanics Lab 3. Separation Process-I Lab 4. Separation Process-II Lab 5. Transport Phenomena Lab | <ol style="list-style-type: none"> 1.Double pipe heat exchanger 2.Iron Cylinder 3.Copper Sphere 4.Weighing Balance 5.Venturi Meter 6.Rotameter 7.Pitot Tube 8.Orifice Meter 9.Jet Mixing 10.Solid Liquid Fluidization 11.Plate & Frame Press 12.Open Pan Evaporator 13.Forced Circulation Evaporator 14.Cooling Tower 15.Air Dryer 16.Fractional Crystallization 17.Vacuum Dryer 18.Batch Distillation 19.Steam Distillation 20.Freeze Dryer | Hands on Experience | Two to Four |
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| 4 | Computer Lab 1: Mr. M. Umar Nisar [Network Administrator M.Sc] 2: Mr. Shahzad Riaz [Jr. Computer Technician - FA] | Introduction to Computing & Programming Lab Computer Applications in Chemical Engineering Lab CAD Auto-CAD | 46 Computers | Hands on Experience | Two to Four |
| 5 | Particulate Technology Lab 1.Engr.nazish aslam [Lab Engineer. M.Sc Chemical Engineering] 1.Rana Akbar Ali Lab Att. Matric 2.Mr. Nawaz Lab. Att. | Particulate Technology Lab | 1.Jaw Crusher, 2. Kneader Mixer For Dry Solids, 3. Kneader Mixer For Pastes, 4.Sugar Cane Crusher, 5.Disc mill, End runner mill, 6.Pebble mill, 7.Hammer Mill, 8. Pan Granulator, | Hands on Experience | Two to Four |
| 6 | Physical Chemistry Lab 1.Engr.Abid Mehmood [Lab Engineer M.Sc Chemical Engineering] 2: Mr. Tariq Mahmood [Lab. Asst -- DAE (PWR)] 3: Mr. Jaffar Hussain Shah [Lab Attend. – FA] | Physical Chemistry Lab | 1.Ostwald viscometer, 2.Stalagmometer, 3.Calorimeter, 4.Dilatometer, 5.Conical flask, 6. funnel, 7. balance, 8.Refractometer | Hands on Experience | Two to Four |

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| 7 | Engineering Drawing 1: Mr. M. Ilyas [Lab. Attend. - Matric] | Engineering Drawing | 1.Engineering Drawing tools | Hands on Experience | Two to Four |
| 8 | Fuel & Combustion Lab 1.Engr.Abid Mehmood [Lab Engineer M.Sc Chemical Engineering] 2: Mr. Ashiq Ali [Lab. Asst -- Matric] 3: Mr. Sohail Sadiq [Lab Attend. – Matric] | Fuel & Combustion Lab | 1Muffle Furnace, 2 Junkers Gas Calorimeter, 3Bomb Calorimeter, Flash 4Point Test, Aniline Point 5Tester, Cloud & Pour Point Test, 6 Redwood Viscometer-I, 7Redwood Viscometer- II, 8Angler Viscometer 9Sybolt viscometer | Hands on Experience | Two to Four |
| 9 | Instrumentation & Process Control Lab 1.Engr.nazish aslam [Lab Engineer. M.Sc Chemical Engineering] 2: Mr. M. Khurram [Assoc. Engg. – B.Tech(Honrs)] 3: Mr.Frasat Azeem [Lab Attend. – Matric] | Instrumentation & Process Control Lab | 1.Bourdon gauge, 2.Dead weight tester, 3. RTD, 4.Thermocouple, 5.Liquid Level system, 6.Temperature level system, 7.Pressure level system, 8.Control valve system | Hands on Experience | Two to Four |
| 10 | Unit Process Lab 1.Engr.nazish aslam [Lab Engineer. M.Sc Chemical Engineering] 2: Mr. Hz M. Adnan Qadri [Lab Engr. -- BE (Elect)] 3: Mr. M. Asghar Ali [Lab. Attend - Matric] | Research Project | 1.Crusher 2.Grinder 3.Sieving 4.Autoclave 5.Vacuum Pump 6.Heater 7.Electric Stirrer | Hands on Experience | Two to Four |

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| 11 | Postgraduate Research Lab 1: Dr.Rabya Aslam [Associate Prof. PhD] 2: Mr. M. Yasin [Lab. Asst – F.Sc] 3: Mr. Asif Hussain [Lab Attend. – Matric] | Research Project | 1.Gas Chromatography 2.Spectrophotometer 3.HPLC 4.Karl Fisher Titration 5.Rheo Meter 6.Oil Bath 7.pH Meter | Hands on Experience | Two to Four |
| 12 | Polymer Characterization Lab 1: Dr. Shahzad Maqsood [Professor - Ph.D] 2: Dr. Aneela [Assistant Professor – Ph.D] 3: Nafisa Gull [Research Officer Ph.D Scholar] | Research Project | 1.Oven 2.Furnace 3.Polymer Synthesis Pilot plant 4.Weighing Balance | Hands on Experience | Two to Four |
| 13 | Catalyst Characterization Lab 1: Dr.Rabya Aslam [Associate Prof. PhD] 2: Mr. M. Yasin [Lab. Asst – F.Sc] 3: Mr. Asif Hussain [Lab Attend. – Matric] | Research Project | 1.Oven 2.Furnace 3.Centrifuge 4.High Pressure Autoclave Reactor 5.Glass Reactor 6.Gas Chromatography | Hands on Experience | Two to Four |
| 14 | Polymer Rheology Lab 1: Dr. Shahzad Maqsood [Professor - Ph.D] 2: Dr. Aneela [Assistant Professor – Ph.D] 3: Dr. Shafiq [Lecturer – Ph.D] 4: Nafisa Gull [Research Officer Ph.D Scholar] | Research Project | 1.FTIR 2.Hardness Tester 3.Tubler Impact testing 4.Pendulum Impact tester 5.UTM | Hands on Experience | Two to Four |

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| <p style="text-align: center;">15</p> | <p>Reaction Engineering Lab 1: Dr.Rabya Aslam [Associate Prof. PhD] 2: Mr. Sibtain Shah [Lab. Attend. – B.A.]</p> | <p style="text-align: center;">Research Project</p> | <p>1.Distillation Apparatus 2.Liquid Phase Chemical reactor 3.Pyrolasis 4.fume hood 5.Chemische Reactor 6.Continuous Tank Reactor</p> | <p style="text-align: center;">Hands on Experience</p> | <p style="text-align: center;">Two to Four</p> |
| <p style="text-align: center;">16</p> | <p>Thermo Dynamic Lab 1.Engr.Abid Mehmood [Lab Engineer M.Sc Chemical Engineering] 2: Mr. M. Tayyab [Lab. Attend.-- FA]</p> | <p style="text-align: center;">Research Project</p> | <p>1.Thermal Expansion Apparatus, 2.Thermal Conductivity setup, 3.Thermal radiation cube, 4.Mechanical Equivalent of heat, 5.Steam power plant, 6.Heat capacity Apparatus, 7.Refrigeration unit</p> | <p style="text-align: center;">Hands on Experience</p> | <p style="text-align: center;">Two to Four</p> |