

## ENGINEERING PROGRAM DATA

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

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

S #	Program title	Accreditation of intake batches (intake from-to)	Green signal, zero/interim visits (intake from-to)
1	Material Engineering (Material/Manufacturing)	Accreditation for BS Engineering graduates of Batch 2009	Accreditation granted for Fall 2009 intake Applied for re- accreditation of BS (Materials and Manufacturing )
2	Material Engineering (Nanotechnology)	Batch 2012	Zero visit (Green signal in 2012)
3	Chemical Engineering	Batch 2012	Zero visit (Green signal in 2012) Interim visit in January- 2015

### **ACCREDITATION DETAILS: MATERIALS SCIENCE AND ENGINEERING SINCE 1993**

Year of Accreditation	Decision
Accreditation for graduates of Batch 1993 to Batch 2005	Accredited by PEC
Accreditation for graduates of Batch 2003 to Batch 2005	The program was accredited for three years
Accreditation for graduates of Batch 2006	The program was accredited for one year
Accreditation for graduates of Batch 2007 and Batch 2008	The program was accredited for two years
Accreditation for graduates of Batch 2009	The program was accredited for one year

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

Name of Engineering Program: Materials Science and Engineering

Study year	Batch/enrolment year	No. of students	No. of sections
1 <sup>st</sup> year	2014	56	1
2 <sup>nd</sup> year	2013	64	2
3 <sup>rd</sup> year	2012	40	1
4 <sup>th</sup> year	2011	42	1
<b>Total</b>		<b>202</b>	<b>5</b>

**Table-II: STUDENT SUMMARY (PROGRAM-WISE)**Name of Engineering Program: Chemical Engineering

Study year	Batch/enrolment year	No. of students	No. of sections
1st year	2012	30	1
2nd year	2013	32	1
3rd year	2014	41	1
4th year	-	-	-
<b>Total</b>		<b>103</b>	<b>3</b>

**Table-III: FACULTY SUMMARY (PROGRAM-WISE)**Name of Engineering Program: Material Science and Engineering

	Faculty teaching engineering subjects				Faculty teaching non-engineering subjects			
	BSc Lab Engr. / Teaching Assistant	MSc	PhD	total	BSc	MSc	PhD	total
Program faculty (dedicated)	12	06	03	20	-	-	-	-
Program faculty (shared with other programs)	-	1	0	1	-	-	2	2
Shared faculty (from other programs)	-	10	7	17	-	2	8	10
Visiting Engg. Faculty (from industry, or other university)	-	-	-	-	-	-	-	-

**Table-IV: STUDENT: TEACHER RATIO (PROGRAM-WISE)**Name of Engineering Program: Material Science and Engineering

A. Total students currently enrolled in the engineering program	202
B. total full time dedicated engineering faculty members	9
Student: teacher ratio [A:B]	22:1

**Table-III: FACULTY SUMMARY (PROGRAM-WISE)**Name of Engineering Program: Chemical Engineering

	Faculty teaching engineering subjects				Faculty teaching non-engineering subjects			
	BSc Lab Engr. / Teaching Assistant	MSc	PhD	total	BSc	MSc	PhD	total
Program faculty (dedicated)	3	2	4	9	-	-	-	-
Program faculty (shared with other programs)	-	-	-	-	-	-	-	-
Shared faculty (from other programs)	-	07	10	17	-	2	8	10
Visiting Engg. Faculty (from industry, or other university)	-	-	-	-	-	-	-	-

**Table-IV: STUDENT: TEACHER RATIO (PROGRAM-WISE)**Name of Engineering Program: Chemical Engineering

A. Total students currently enrolled in the engineering program	103
B. total full time dedicated engineering faculty members	6
Student: teacher ratio [A:B]	17:1

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

Name of Engineering Program: Material Science and Engineering

S #	Name	PEC #	Designation	Joining Date	Details of Qualifications			Specialization	Experience Teaching (Total) Years	Dedicated /Shared
					Degree	Year	Institution			
1	Dr. Fida Mohammad	NA	Dean and Associate Prof.	Aug, 2007	Ph.D.	1986-1993	University of California Davis, USA	Atmospheric Chemistry	38 years	Dedicated
					MSc	1969	University of Peshawar	Physical Chemistry		
					BS	1967	Islamia College Peshawar	Physics, Chemistry, Mathematics		
2	Dr. F. Ahmad Khalid	MET / 302	Professor		Ph.D.	1991	University of Oxford, UK	Physical Metallurgy	33 years	On leave
					BS	1980	UET, Lahore	Metallurgy & Materials Engg.		
3	Dr. Fahd Nawaz Khan	Applied for PEC registration	Assistant Professor	Sep, 2011	Ph.D.	2011	Northumbria University, UK	Advanced coatings for cutting tools for machining aerospace alloys	3 and half years	On leave
					MS	2004	GIK Institute, Pakistan	High Temperature oxidation of superalloys		
					BS	2000	GIK Institute, Pakistan	Materials Science and		

								Engineering		
4	Dr. Yasir Faheem Joya	METAL/1707	Assistant Professor	Aug, 2013	Ph.D.	2011	Manchester, UK	Materials Engg.	02 years	Dedicated
					MPhil	2008	Manchester, UK	Materials Engg.		
					BS	2003	UET, Ihr	MM Engg.		
5	Dr. Imran Khan	METAL/3544	Assistant Professor	June, 2013	Ph.D.	2013	University of Tsukuba, Japan	Smart materials	3 years	Dedicated
					MS	2007	GIK Institute, Pakistan	Materials Engineering		
					BS	2000	GIK Institute, Pakistan	Materials and Metallurgical Engineering		
6	Syed Zameer Abbas	Metal/1220	Research Associate	Jan, 2009	Ph.D.	-	-	-	06 years	Dedicated
					MS	2009	GIK Institute, Pakistan	Materials Science and Engineering		
					BS	1993	UET, Lahore	Metallurgical and Materials Engineering		
7	Muhammad Omer Farooq	METAL/2520	Research Associate	3 <sup>rd</sup> Feb. 2015	MS	2014	Christian-Albrechts-Universität zu Kiel, Germany	Materials Science and Engineering	1.5 years	Dedicated
8	Tauheed Shehbaz	Metal/1483	Research Associate	3 <sup>rd</sup> Feb/. 2015	MS	2009	NUST, Islamabad	Materials Engineering	05 years	Dedicated
9	Syed Ali Afraz	Metal/2192	Research Associate	Jan, 2014	Ph.D.		-	-	01 year Teaching & 01 year as TA	Dedicated
					MS		KTH, Sweden	Industrial Materials		
					BS		GIK Institute, Pakistan	Materials Science and Engineering		
10	Tahir Sattar	Metal/2551	Research	Feb,	Ph.D.		-	-	01 year	Dedicated

			Associate	2014	MS	2014	GIK Institute, Pakistan	Materials Science and Engineering		
					BS	2011	University of the Punjab	Metallurgy an d Materials Engineering		
11	Hafiz Kabeer Raza	Metal/ 2272	Research Associate	August, 2014	MS	2014	GIK Institute, Pakistan	Materials Science & Engg.	01 year	Dedicated
					BS	2010	UET, Lahore	MM Engg.		

**Table-V: FACULTY DETAILS RATIO (PROGRAM-WISE)**Name of Engineering Program: Chemical Engineering

S #	Name	PEC #	Designation	Joining Date	Details of Qualifications			Specialization	Experience Teaching (Total) Years	Dedicated /Shared
					Degree	Year	Institution			
1	Prof. Dr. Javaid Rabbani Khan	CHEM/203	Professor	5 <sup>th</sup> Feb. 2015	Ph.D.	1986	University of Newcastle Upon Tyne, UK	Chemical Engineering	40 Years	Dedicated
2	Dr. Muhammad Shozab Mehdi	CHEM/5845	Assistant Professor	Dec, 2013	Ph.D.	2013	PIEAS, Pakistan.	Chemical Engineering	02 years	Dedicated
					MS	-	-	-		
					BS	2003	BZU, Pakistan.	Chemical Engineering		
3	Dr. Khurram Imran Khan	CHEM/6566	Assistant Professor	April, 2014	Ph.D.	2014	Politecnico di Torino, Italy	Chemical Engineering	1.5(4)	Dedicated
					MS	-	-	-		
					BS	2007	University of the Punjab	Chemical Engineering		
4	Dr. Roman Zaib Babar	Applied for PEC registration	Assistant Professor	Aug, 2014	Ph.D.	2014	Politecnico di Torino, Italy	Chemical Engineering	04 months	Dedicated
					MS	-	-	-		
					BS	2007	University of the Punjab	Chemical Engg		
5	Muhammad Ahsan Waseem	Applied for PEC registration	Research Associate	Jan, 2014	Ph.D.	-	-	-	10 months	Dedicated
					MS	2012	Karlstad university, Sweden	Chemical engineering		
					BS	2009	NFC IEFER (affiliated with UET Lahore)	Chemical Engineering		
6	Engr. Fraz Saeed Butt	CHEM/8555	Research Associate	Sep, 2014	Ph.D.	-	-	-	2 months	Dedicated
					MSc	2014	OVGU, Magdeburg, Germany	Chemical and Energy		
					BS	2010	University of the Punjab	Chemical Engineering		

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

Name of Engineering Program: **Material Science and Engineering**

Number of total engineering + computing courses: 43

Number of lab courses: 18

Number of laboratories: 13

S #	Name of laboratory (staff names - qualifications)	Lab(s) of Course(s) conducted in the lab.	Nature of Experiments	No. of Students per workstation
1	<b>SEM Lab:</b> Mr. Zameer Abbas - MS (Material Science), Salman Khalid - BS (Manufacturing Engg.)	Materials Labs I, Evaluation Techniques & Instrumentation, Phase Equilibria and Microstructures, Deformation and Fracture	Demonstration	10 to 12
2	<b>Thin Film Lab:</b> Mr. Zameer Abbas - MS (Material Science), Harris Ikram - BS (Material Science)	Materials Labs VI,	Demonstration	10 to 15
3	<b>Ceramics Lab:</b> Mr. Tahir Sattar - MS (Material Science), Ms. Abeera Fatima - BS (Material Science)	Materials Labs VI, Materials Labs V, Materials Labs IV, Materials Labs VII, Ceramic and Glasses	Hands-on	10 to 15
4	<b>Workshop / Polymer and Heat Treatment, Melting &amp; Casting Labs:</b> Dr. Imran Khan - Ph.D (Material Science), Muaz Tahir - BS (Materials Engg.)	Materials Labs I, Phase Equilibria and Microstructures, Alloy Production and Casting, Heat Treatment and Processing, Materials Labs IV, Joining of Materials	Hands-on	10 to 15
5	<b>Carbon Lab:</b> Mr. Zameer Abbas - MS (Material Science), Saif H. Kayani - BS (Material Science)	Alloy Production and Casting	Hands-on	10 to 12
6	<b>Mechanical Testing Labs:</b> Mr. Ali Afraz - MS (Material Science), Azhar Tanveer - BS (Material Science)	Strength of Materials, Phase Equilibria and Microstructures, Deformation and Fracture, Joining of Materials	Hands-on	10 to 15



7	<b>XRD Lab:</b> Dr. Imran Khan - Ph.D (Material Science), Shamir Tahir - BS (Manufacturing Engg.)	Evaluation Techniques & Instrumentation, Phase Equilibria and Microstructures, Crystallography and XRD, Alloy Production and Casting	Demonstration	10 to 12
8	<b>NDT Lab:</b> Mr. Kabeer Raza - MS (Engg. Manag.), Ms. Anum Yaseen - BS (Metallurgy and Materials Engg.)	Evaluation Techniques & Instrumentation, Deformation and Fracture, Joining of Materials	Hands-on	10 to 12
9	<b>Corrosion Lab:</b> Dr. Yasir F. Joya - Ph.D (Material Science), Shamir Tahir - BS (Manufacturing Engg.)	Materials Labs I, Materials Labs V	Hands-on	10 to 15
10	<b>Metallography Labs:</b> Dr. Imran Khan - Ph.D (Material Science), Ms. Sarah Jamil - BS (Material Science)	Materials Labs I, Phase Equilibria and Microstructures, Crystallography and XRD, Deformation and Fracture, Joining of Materials	Hands-on	10 to 17
11	<b>FYP Computer Lab:</b> Mr. Tahir Sattar - MS (Material Science), Mudasser Khan - BS (Materials Engg.)	Internet for Final Year Projects	Hands-on	10 to 12
12	<b>Computational Lab:</b> Mr. Ali Afraz - MS (Material Science), Salman Khalid - BS (Manufacturing Engg.)	Materials Labs IV, Engineering Design, Materials Labs V	Hands-on	10 to 15
13	<b>AFM Lab:</b> Dr. Imran Khan - Ph.D (Material Science), Mudasser Khan - BS (Material Science)	Advanced Materials, Nanotechnology, Nano characterization techniques, Nanotechnology in energy, Nanostructured and devices	Demonstration	10 to 15

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

Name of Engineering Program: Chemical Engineering  
Number of total engineering + computing courses: 23  
Number of lab courses: 10  
Number of laboratories: 3+3

S #	Name of laboratory (staff names - qualifications)	Lab(s) of Course(s) conducted in the lab.	Nature of Experiments	No. of Students per workstation
1	Chemical lab-I	Industrial processes	Demonstration + hands-on experience	8 to 10
2	Chemical lab-II	Fuel and combustion + particle technology	Demonstration+ hands-on experience	8 to 10
3	Chemical lab-III	Fluid Mechanics and Environmental Engineering	Demonstration+ hands-on experience	8 to 10
4	Chemical lab-IV	Heat and Mass Transfer and Reaction Engineering	Demonstration+ hands-on experience	8 to 10
5	Chemical lab-V	Process Control and Simultaneous Heat and Mass Transfer	Demonstration+ hands-on experience	8 to 10
6	Chemical-VI	Process Modeling and Simulation	Hands-on	1 to 2